 The tree which is most commonly grown in hilly areas is: a. Beri b. Sufeida c. Simal 	
a. Berl D. Sufeida C. Simal	1 (1)
2. The forests found along river hanks and brown as	d. Chirpine
2. The forests found along river banks are known as:	
a. Mangrove forests b. Bela forests	
b. c. Agro-forests d. Alpine forest	LS
3. The best quality furniture is made from the wood of:a. Shishamb. Poplarc. Toot d. Simal	
a. Shishamb. Poplarc. Toot d. Simal4. Total forest area of Pakistan is:	
a. 2.8% b.3.8% c. 4.2% d.8.8%	
a.2.8%0.5.8%c. 4.2%5.The most productive forests of Pakistan are:	
a. Irrigated forest plantations b. Coniferous for	orests
c. Scrub Forests d. Farm Fores	
6. The following tree species has maximum water requirements:	
a. Kikar b. Jand c. Sufeida	d. Farash
7. Rotation of Chirpine is:	
a. 100 years b.200 years c.300 years	d.400 years
8. The leaves of following tree are used as food of silkworm:	ý
a. Arjun b. Peepal c. Toot	d. Tahli
9. The wood of Toot is used to make best quality:	
a. Cricket bats b. Hockey stic	ks
c. Furniture items d. Door, Windo	ows etc.
10. The plants which shed their leaves in autumn are known as:	
a. Angiosperms b. Gymnospern	ns
c. Deciduous plants d. Evergreen pl	ants
11. The deciduous plants can be transplanted as:	
a. Entire plant with naked roots b. Entire plant	with ball of earth
c. Root/shoot cuttings d. All above m	ethods are correct
12. Potowar region includes:	
a. Multan and Lodhran b. Lahore and F	Faisalabad
c. Islamabad and Rawalpindi d. Bahawalpur	and Bahawalnagar
13. Wood of Jaman is used for	

1000 MCQs from the Department of Forestry and Range Management for GRE/GAT

c. Window and door frames	d. None of the above	
14. The tree suitable for saline lands is:		
a. Poplar b. Simal	c. Kikar d. Tahli	
15. Mangrove forests are found in:		
a. Muree	b. Karachi and Gawadar	
c. Kaghan and swat	d. Ever where in the country	
16. Diameter at breast height is diameter of tree ste	em above ground at a height of:	
a. 4 feet 2 inches b. 4 feet 4 inches	c. 4 feet 6 inches d. 4 feet 8 in	ches
17. Dalbergia sisoo is basically grown in:		
a. Bed nursery	b. Potted nursery	
c. Directly sown in the field	d. None of the above	
18. Zizyphus mauritiana is basically grown in:		
a. Bed nursery	b. Potted nursery	
b. Directly sown in the field	d. None of the above	
19. Root/shoot cutting is also known as		
a. Stem cutting b. Stump	c. Grafted cutting d. None of t	he above
20. NWFP stands for:		
a. Non-wood forest policy b. No	n-wood forest products	
c. Non-wood forest principles	d. North western frontier province	
21. PFRI stands for:		
a. Pakistan Forest research Institute	b. Provincial Forest research Institute	e
c. Punjab Forestry research Institute	d. Private Forest research Institute	
22. NARC stands for		
a. Northern Agricultural Research Centre	b.Non-Agricultural Resource Centre	
c. National Agricultural Research Centr	e d. National Analytical Resea	rch Centre
23. In Pakistan, Ph.D Forestry is offered by:		
a. Pakistan Forest Institute	b.University of Agriculture,	Faisalabad
c. Arid Agricultural University, Rawalpind	i d. b and c, both .	
24. In forest ecosystem:		
a. Grasses and ephemeral plants are dominated	ant b. Trees/shrubs are domin	ant
c. Ephemeral plants are dominant	d. Grasses are dominant	
25. Pneumatophores are:		
a. Roots of farm trees	b. Roots of ornamental plant	S
c. Aerial roots	d. Underground stem	

26. Pruning, thinning and weeding are: a. Basically artificial activities based on human research **b. Natural phenomenon** c. Learnt from USA d. Learnt from animals 27. Removal of soil with flowing water is known as: a. Water erosion b. Wind erosion c. Ground erosion d. a and c 28. An area less deep than wide which drains out surplus water into a nearby canal or stream is known as: a. Catchment area b. Watershed area c. a & b d. None of above 29. Cambium, in plants is responsible for a. Primary growth **b. Secondary growth** c. Sudden growth d. a and b 30. The central core of tree stem is known as: a. Sap wood b. Raw wood c. Heart wood d. Fuel wood 31. Soft wood is wood of: a. Broad leaved trees **b.** Coniferous trees c. *Populus deltoids* d. Bombax ceiba 32. A tree which moves to and fro with blowing wind is known as: a. Dominant tree b. Sub-dominant tree c. Wolf tree d. Whip tree 33. A tree with stunted growth is known as : a. Diseased tree b. Common treec. Co-dominant tree d. Dwarf tree 34. In shelterwood system, all the trees are : a. Removed in one installment b. Removed in more than one installments c. Covered with large polythene sheets d. None of the above 35. The silvicultural system which provides both timber and fuelwood side by side is: a. Clear felling system b. Shelterwood system d. Coppice with standard silvicultural system c. Selection wood system 36. Pruning should be carried out when branches are: a. Less than thumb thickness b. Equal to wrist thickness c. More than wrist thickness d. Dead 37. Removal of undesirable woody plants from the forest is known as: b. Cleaning a. Weeding c.Shifting d.Felling 38. MAI stands for: a. Million annual increments b. More annual increment c. Multi annual increment d. Mean annual increment 39. All the operations from seed sowing up to harvesting of tree are collectively known as: a. Sericulture b. Apiculture c. Silviculture d. Lac-culture 40. Botanical name of Neem is:

a.	Melia azedrach	b. Prosopis cineraria c	e. Azadirachta indica d	. Tamarix aphylla
41. Remo	val of branches from the	tree while taking care of	its health is called:	
a.	Pruning	b. Pollarding c. Silvi	lculture d. Top	pping
42. Remo	val of braches from the tr	ee without any respect to	its health is called:	
a.	Cleaning	b. Logging	c. Lopping	d. Harvesting
43. Shiftin	ng of plants from nursery	to the field is known as:		
a.	Planting	b. Transplanting	c. Movement d. Ren	moval
44. Root j	pruning promotes:			
a.	Tap roots	b. Adventitious roots	c. a and b	d. None of the above
45. Follow	wing trees are suitable for	desert conditions		
a.	Prosopis cineraria	b. Salvadora oleides	c. Acacia nilotica	d .a, b and c
46. Annua	al rings indicate:			
a.	Diameter of tree	b. Strength of wood	c. Age of tree d. Prid	ce of tree
47. Twigs	are smaller than:			
a.	Branches	b. Limbes	c. Stem	d. a, b and c
48. Which	n tree species has relative	ly less height:		
a.	Azadirachta indica		b. Dalbergia sissoo	
C.	Melia azedrach	d. Euco	alyptus camaldulensis	
49. A land	d supporting forest or rese	erved forest is:		
a.	Farmland	b. Tree land	c. Forest land d. Fo	prest
50. Botan	ical name of Willow is:			
a.	Populus deltoids		b. Bombax ceiba	
c.	Salix tetrasperma		d. Erythrina suberosa	
51. CCF s	stands for:			
a.	Chief Controller of fores	its	b. Chief Captain of fo	rests
c.	Chief Conservator of fo	orests	d. All above are wron	g
52. Range	e Forest Officer is also kn	own as:		
a.	Forest Range Officer	b. Block Officer	c. Forest Guard	d. Forest Ranger
53. Xylen	n in plants is responsible	for:		
a.	Movement of food		b. Movement of wate	er and minerals
c.	Movement of waste proc	lucts	d. Resistance against o	diseases
54. Rotati	on of <i>Dalbergia sissoo</i> fo	or best quality timber is:		
a.	12 years	b. 22 years	c. 44 years	d. 66 years
55. Rotati	on of Eucalyptus camald	ulensis with respect to N	IAI is:	

a. 6 years	b.12 years	c.18 years	d.24 years
56. Banana is a:			
a. Tree	b. Shrub	c. Herbaceous plant	d. Grass
58. Following is a very important	medicinal plant found in	Balochistan:	
a. Juniperous excels	b. Olea ferrugenia	c. Dodonea viscose	d. Ephedra species
59. The height of sub-tropical bro	ad leaved evergreen scru	b forests above sea level	is:
a. 500-1500 feet	b. 1500-2500 feet	c. 2500-3500 feet	d. 3500-5500 feet
60. PARB is:			
a. Pakistan agriculture res	earch board	b. Punjab agriculturo	e research board
c. Pakistan agriculture res	earch bulletin	d. Punjab agriculture r	esearch bulletin
61. The height of temperate fores	ts above sea level is:		
a. 6500-7500 feet	b. 6500-8500 feet	c. 6500-11000 feet	d. 6500-13000
61. The study of individual tree w	ith respect to its environr	nent is known as:	
a. Autecolocgy	b. Synecology	c. Pathology	d. Eco-toxicology
62. A transition zone among two	ecosystems is called:		
a. Ecotourism	b. Forest ecosystem	c. Ecotone	d. Ecophyll
63. Loss of water from plant leav	es is called:		
a. Evaporation	b. Transpiration	c. Extirpation	d. Oxidation
a. Evaporation64. Green leafy material applied t		*	d. Oxidation
*		*	d. Oxidation d. Green biomass
64. Green leafy material applied t	o soil to improve its ferti b. Forage	lity is called: c. Fodder	
64. Green leafy material applied ta. Green manure	o soil to improve its ferti b. Forage	lity is called: c. Fodder	
 64. Green leafy material applied t a. Green manure 65. The animals which feed on pl 	o soil to improve its ferti b. Forage ants as well as on meat a b. Carnivores	lity is called: c. Fodder re called: c. Omnivores	d. Green biomass d. Folivores
 64. Green leafy material applied t a. Green manure 65. The animals which feed on pl a. Herbivores 	o soil to improve its ferti b. Forage ants as well as on meat a b. Carnivores orest floor such as twigs,	lity is called: c. Fodder re called: c. Omnivores branches, leaves etc is ca	d. Green biomass d. Folivores lled;
 64. Green leafy material applied t a. Green manure 65. The animals which feed on pl a. Herbivores 66. The plant material fallen on formation of the plant material fallen on fall	o soil to improve its ferti b. Forage ants as well as on meat a b. Carnivores orest floor such as twigs, b. Fertilizer	lity is called: c. Fodder re called: c. Omnivores branches, leaves etc is ca	d. Green biomass d. Folivores lled;
 64. Green leafy material applied t a. Green manure 65. The animals which feed on pl a. Herbivores 66. The plant material fallen on for a. Humus 	o soil to improve its ferti b. Forage ants as well as on meat a b. Carnivores orest floor such as twigs, b. Fertilizer	lity is called: c. Fodder re called: c. Omnivores branches, leaves etc is ca	d. Green biomass d. Folivores lled;
 64. Green leafy material applied t a. Green manure 65. The animals which feed on pl a. Herbivores 66. The plant material fallen on fe a. Humus 67. A forest having all trees of same 	o soil to improve its ferti b. Forage ants as well as on meat ar b. Carnivores orest floor such as twigs, b. Fertilizer me species is called: b. Pure forest	lity is called: c. Fodder re called: c. Omnivores branches, leaves etc is ca c. Litter	d. Green biomass d. Folivores lled; d. Husk
 64. Green leafy material applied t a. Green manure 65. The animals which feed on pl a. Herbivores 66. The plant material fallen on fe a. Humus 67. A forest having all trees of sata a. Mixed forest 	o soil to improve its ferti b. Forage ants as well as on meat ar b. Carnivores orest floor such as twigs, b. Fertilizer me species is called: b. Pure forest	lity is called: c. Fodder re called: c. Omnivores branches, leaves etc is ca c. Litter	d. Green biomass d. Folivores lled; d. Husk
 64. Green leafy material applied to a. Green manure 65. The animals which feed on plant a. Herbivores 66. The plant material fallen on for a. Humus 67. A forest having all trees of same a. Mixed forest 68. A forest having all trees of same a. Mixed forest 	o soil to improve its ferti b. Forage ants as well as on meat an b. Carnivores orest floor such as twigs, b. Fertilizer me species is called: b. Pure forest me age is called: b. Natural forest	lity is called: c. Fodder re called: c. Omnivores branches, leaves etc is ca c. Litter c. Poor forest c. Even-aged forest	d. Green biomass d. Folivores lled; d. Husk d. Clean forest
 64. Green leafy material applied t a. Green manure 65. The animals which feed on pl a. Herbivores 66. The plant material fallen on fo a. Humus 67. A forest having all trees of sata a. Mixed forest 68. A forest having all trees of sata a. Uniform forest 	o soil to improve its ferti b. Forage ants as well as on meat an b. Carnivores orest floor such as twigs, b. Fertilizer me species is called: b. Pure forest me age is called: b. Natural forest	lity is called: c. Fodder re called: c. Omnivores branches, leaves etc is ca c. Litter c. Poor forest c. Even-aged forest	d. Green biomass d. Folivores lled; d. Husk d. Clean forest
 64. Green leafy material applied to a. Green manure 65. The animals which feed on plant material fallen on for a. Herbivores 66. The plant material fallen on for a. Humus 67. A forest having all trees of same a. Mixed forest 68. A forest having all trees of same a. Uniform forest 69. Woody vegetation having som a. Browse 70. The environmental factors religious of the same and the s	o soil to improve its ferti b. Forage ants as well as on meat an b. Carnivores orest floor such as twigs, b. Fertilizer me species is called: b. Pure forest me age is called: b. Natural forest me forage value is known b. Fodder ated to forest fire are known	lity is called: c. Fodder re called: c. Omnivores branches, leaves etc is ca c. Litter c. Poor forest c. Even-aged forest as: c. Canopy wn as:	d. Green biomass d. Folivores lled; d. Husk d. Clean forest d. Uneven-aged forest d. Biomass
 64. Green leafy material applied to a. Green manure 65. The animals which feed on plant material fallen on for a. Herbivores 66. The plant material fallen on for a. Humus 67. A forest having all trees of same a. Mixed forest 68. A forest having all trees of same a. Uniform forest 69. Woody vegetation having som a. Browse 	o soil to improve its ferti b. Forage ants as well as on meat an b. Carnivores orest floor such as twigs, b. Fertilizer me species is called: b. Pure forest me age is called: b. Natural forest ne forage value is known b. Fodder	lity is called: c. Fodder re called: c. Omnivores branches, leaves etc is ca c. Litter c. Poor forest c. Even-aged forest as: c. Canopy wn as:	d. Green biomass d. Folivores lled; d. Husk d. Clean forest d. Uneven-aged forest
 64. Green leafy material applied to a. Green manure 65. The animals which feed on plant material fallen on for a. Herbivores 66. The plant material fallen on for a. Humus 67. A forest having all trees of same a. Mixed forest 68. A forest having all trees of same a. Uniform forest 69. Woody vegetation having som a. Browse 70. The environmental factors religious of the same and the s	o soil to improve its ferti b. Forage ants as well as on meat an b. Carnivores orest floor such as twigs, b. Fertilizer me species is called: b. Pure forest me age is called: b. Natural forest me forage value is known b. Fodder ated to forest fire are kno b. Physiographic facto	lity is called: c. Fodder re called: c. Omnivores branches, leaves etc is ca c. Litter c. Poor forest c. Even-aged forest as: c. Canopy wn as:	d. Green biomass d. Folivores lled; d. Husk d. Clean forest d. Uneven-aged forest d. Biomass

72. Plants are also known as:

a. Fauna	b. Tundra	c. Flora	d. Shrubs					
73. Harvesting of trees at the end of	of rotation is:							
a. Topping	b. Lopping	c. Felling	d. Training					
74. The best planting method for waterlogged soils is								
a. Pit planting	b. Mound planting	c. Berm planting	d. Dibble planting					
75. The nursery directly grown in	the soil bed is known as:							
a. Field nursery	b. Open nursery	c. Bed nursery	d. Plantation					
76. Compact plantation is also call	ed as:							
a. Linear plantation	b. Shelter belts	c. Block plantation	d. Irrigated plantation					
77. Loss of leaves in trees is called	1:							
a. Diffusion	b. Reduction	c. Defoliation	d. Succession					
78. Opposite of succession is calle	d:							
a. Secondary succession	b. Tertiary succession	c. Retention	d. Retrogression					
79. Resin is obtained from								
a. Poplar	b. Chilghoza	c. Chirpine	d. Walnut					
80. Animals feeding on dead anim	als are:							
a. Primary consumers	d. Secondary consumer	cs c. Scavengers	d.Beasts					
81. Burning of litter and brushwood	d lying on forest floor is	called:						
a. Crown fire	b. Soil fire	c. Surface fire	d.Low level fire					
82. Tree stem is also known as								
a. Bole	b. Trunk	c. a and b	d. None of the above					
83. The plants which are highly dr	ought resistant are known	n as:						
a. Hydrophytes	b. Mesophytes	c. Xerophytes	d. Halophytes					
84. Tables which give volumes of	logs for different values	of tree diameter and leng	gth are known as:					
a. Log tables	b. Diameter tables	c. Volume tables	d. Yield tables					
85. The art and science of rearing	silkworm is known as:							
a. Silviculture	b. Apiculture	c. Sericulture	d. Aquaculture					
86. Final stage vegetation of an eco	osystem is known as:							
a. Sub-climax vegetation	b. Climax vegetation	c. Top vegetation	d. Scrub vegetation					
87. Forest growing along riverside	is known as:							
a. Riverain/bela forest	b. Alpine forest	b. Sub-alpine forest	c. River forest					
88. Material produced by living or	ganisms is known as:							
a. Living material	b. Biomass	c. Living mass	d. Humus					

89. Ratoon crop of trees is called: a. Stump b. Seedling c. Sapling d. Coppice 90. Trees with naked seeds are called: a. Mountainous fruit plant **b. Gymnosperms** c. Dry fruit plants d. Angiosperms 91. Plants that grow in water or wet places are known as: a. Mesophytes b. Xerophytes c. Hydrophytes d. Wet plants 92. GBH is: a. Girth at breast height b. Girth below height c. Girth between heights d. None of the above 93. Layer of litter that is spread artificially on soil to cut down evaporation is called: a. Biomass b. Humus c. Mulch d. Organic fertilizer 94. Removal of branches before felling is called: a. Lopping b. Topping c. Pollarding d. Shifting 95. To provide mechanical support to weak tree seedlings is called: a. Stacking b. Staking c. Tiding d. Supporting 96. Higher water table which disturbs/stops respiration in plants is known as: a. Waterlogging b. Water harvesting c. Water storing d. Water removal 97. The soils in which clay particles make 35% or more of total weight are known as: a. Hard clayey soils b. Clay loam soils c. Clay silt soils d. Sandy clayey soils 98. Monsoon season is in the months of: d. Nov-December a. Feb-March **b.** July-August c. August-September 99. The process of drying the wood before use is called: d. None of the above a. Preservation b. Seasoning c. Drying 100. To through away wood logs in water for some time is known as: a. Preservation b. Seasoning c. Wetting d. Floating 101. Salt tolerant plants are: a. Halophyte b. Mesophyte c. Eqiphyte d. Xerophytes 102. Dalbergia sissoo is the principal species in: a. Irrigated Plantations b. Bela Forest c. Tropical Forest d. Scrub Forest 103. Resin is obtained from: a. Pinus roxbughi d. Cedrus deodara b. Acacia nilotia c. Salix tetrosperma 104. Common Name of Cenchrus cilliaris is: a. Gorkha grass b. Khabbal grass c. Dhaman grass d. Malai grass

105. Rotational age of *Populous deltoides* for max. volume production:

a. 4 Years	b. 6 Years	c. 8 Years	d. 10 Years			
106. Number of plants per unit area is known as:						
a. diversity	b. density	c. Population	d. Vegetation cover			
107. Carrying capacity of 56 h/A.u	/Year:					
a. Very Good	b. Excellent	c. Very Poor	d. Fair			
108. Air dry forage needed to a but	ffalo for one day:					
a. 9kg	b.15 kg	c.13.5 kg	d. 1.5 kg			
109. Lateral movement of water un	der the soil surfac	e is:				
a. Infiltration	b. Seepage	c. Percolation	d. Run off			
110. Formation of gentle slope for	reducing run off is	s known as:				
a. Dam	b. Dyke	c. Percolation	d. Barrage			
111. Group of plants growing toge	ther is known as:					
a. Organization	b. Population	c. Density	d. Community			
112. Murree Hills forests are locate	ed in the region:					
a. Dry Temperate	b. Moist Tempe	erate c. Alpine Climate	d. Subtropical Humid			
113. Purpose of pruning is to get:						
a. Good quality Timb	er b. More branch	nes c. More height	d. More Forage			
114. The common name of Tamari	<i>x aphylla</i> is:					
a. Babool	b. Jand	c. Frash	d. Shareen			
115. Where is juniper forests?						
a. Ziarat	b. Chechawatni	c. Murree	d. Balakot			
116. What type of famous animal p	present in Indus riv	/er:				
a. Crocodile	b. Porcupine	c. Dolphin	d. Trout fish			
117. Basal area is a cross sectional	area of tree stem a	at a height of:				
a. 4.5 meter	b. 3.5 meter	c. 4.5 feet	d. 1.5 feet			
118. Removal of undesirable wood	y plants during ea	rly stage of forest is known as				
a. Weeding	b. Logging,	c. Lopping	d. Cleaning			
119. Heart Wood means						
a. Coniferous Trees		b. Wood of broad leaved trees				
c. Dead Phloem		d. Dead xylem				
120. What is the main sp. of mange	rove forest:					
a. Aveciena marina sp	b. b. Acacia sp.	c. Rhizophora sp	d. Cactus sp			
121. Area occupied by rangelands	of Pakistan.					
a. 42%	b. 50%	c. 62%	d. 72%			

122. In Ra	ange ecosystem natural ve	egetation is dominated by	/:				
	a. Herbs and shrubs	b. Grasses and herbs	c. Tree	es and shrubs	d. Grasses		
123. Losses of solar energy coming from the sun in Range Ecosystem are:							
	a. 15%	b. 85%	c. 90%)	d. 99%		
124. The J	practices essential for obt	aining maximum product	tion witl	nin existing poter	ntial are known as:		
	a. Range improvement	operations	b. Ran	ge development	operations		
	c. Range managemen	t operations	d. Nor	ne of the above			
125.	Most common range us	se intensity is taken as:					
	a. 40%	b. 50%	c.60%	•	d.70%		
126. A co	w weighting about	Kg and eating 9 kg ai	r dry foi	rage per day is k	nown as an animal unit.		
	a. 225kg	b. 325kg		c. 425kg	d. 525kg		
127. Woo	dy vegetation having som	ne forage value is known	as a:				
	a. Tree	b. Shrub		c. Feed	d. Browse		
128. Entire plant with naked roots can be successfully grown.							
	a. In monsoon season	b. In whole winter seas	on	c. Spring seas	on d. In autumn season		
129. The o	common name of Albizzia	<i>a procera</i> is					
	a. Babool	b. Jand		c. Frash	d. Shareen		
130. Later	al Growth is controlled b	у					
	a. Xylem	b. Phloem		c. Cortex	d. Cambium		
131. Pros	<i>opis cineraria</i> is typically	found in					
	a. Dry tropical thorn	forest		b. Tropical For	rest		
	c. Riverian Forest			d. Scrub Fores	t		
132. The l	pest suited tree for sport g	goods is.					
	a. Dalbergia sissoo	b. Populous deltoids		c. Bombax ceil	ba d. Morus alba		
133. Dalb	ergia sissoo is the princip	ple species of					
	a.Irrigated Forest	b. Riverian Forest		c. Tropical For	rest d. Scrub Forest		
134. Silvo	pastoral system means:						
	a. Agriculture +Silvicu			b. Silviculture	+Pasture Farming		
	c. Agriculture +Silvicu	lture +Pasture Farming		d. None			
135	Industry is or	ne of the major wood base	ed indus	stry of Pakistan.			
	a. Paper industry	b. Sport industry		c. Chip board	d. None		
136. Rem	oval of branches from the		es by as	•			
	a.Lopping	b. Pruning		c. Pollarding	d. Topping		

137. Punj	ab Forestry Research Ins	titute (PFRI), Gatwala, I	Faisalabad has two school	s of Forestry located in
Gho	ra Gali (Murree) and:			
	a. Faisalabad.	b. Bahawalpur	c. Multan	d. D. G. Khan.
138. Paki	stan Journal of Forestry i	s published by		
	a. Pakistan Forest I r	nstitute Peshawar	b. University of Arid A	Agriculture, Rawalpindi
	c. Punjab Forestry Re	esearch Institute, Fsd.	d. University of Agrico	ulture Faisalabad
139. Whi	ch one is cheapest metho	d?		
	a. Kiln seasoning	b. Air seasoning	c. Water seasoning	d. None
140. Plan	ting by rod is known as			
	a. Notch planting	b. Mound planting	c. Pit planting	d. Dibble planting
141. Thin	ning is done to have			
	a. More number of tre	ees b. More Forage	c. Less competition	d. More wood
142. Hard	Wood means			
	a. Coniferous Trees		b. Dead xylem	
	c. Dead Phloem		d. Wood of broad lea	ved trees
143. Albi	zzia lebbek belongs to th	e group of trees of		
	a. Soft wood	b. Sap wood	c. Hard wood	d. Heart wood
144. Woo	d requirement of Pakista	n for forest and forest pr	oducts is:	
	a. 6.6 M m3	b.52.6 M m3	c. 75.0 M m3	d. 35 M m3
145. The	perennial woody plant w	ithout a distinct upright s	stem is known as:	
	a. Tree	b. Shrub	c. Bush	d. Herb
146. The	limiting component of er	vironment for plant grov	wth in plain area is:	
	a. Temperature	b. Humidity	c. Wind	d. Topography
147. Coni	ferous wood is largely m	ade up of		
	a. Vessels,	b. Ray cells	c. Fibers	d. Trachieds
148. Crov	vn of a tree consists of:			
	a. Leaves, flowers, fr	uits, twigs	b. Limbs, bole, tap roo	t
	c. Bole, limb, taproot,	fibrous root	d. Adventitious roots,	collar, stem
149.	Cambium is located be	etween:		
	a. Sap wood and heart	wood	b. Outer dead bark, and	d living bark
	b. Sap wood and livi	ng bark	d. None of the above	
150. Edap	bhic Factors are related to):		
	a. Topography and asp	pect b. Soil	c. controlled burning	d. Living things

151. Each environmental Factor	nas				
a.3 levels	b. 5 levels	c. 2 levels	d. None of the above		
152. Which one is salt tolerant.					
a. <i>Eucalyptus camaldule</i>	nsis	b. Bombax ceiba	b. <i>Bombax ceiba</i>		
c. Pinus roxburghii		d. Populus deltoide	<i>2S</i>		
153. We have best furniture wood	from				
a. D.Morus alba	b. Dalbergia sissoo	c. Populus deltoide	es d. Acacia nilotica,		
154. While selecting a tree specie	se for Agroferestry, one	should look its:			
a. Its Marketing Potentia	ıl	b. Its suitability to	site.		
c. Compatibility to farm c	rops	d. All above			
155. Roots of trees largely absorb	water from the soil by:				
a. Root cap	b. Root tip	c. Root hairs	d. root -cortex cells		
156. The common name Elionuru.	s hirsutum grass is				
a. Gorkha	b. Kaj	c. Khawi	d. Murgha		
157. In Pakistan, area under range	e is:				
a. 20%	b. 80%	c. 62%	d.40%		
158. Environmental factor consist	s of only				
a. Climatic factors	b. Biotic factors	c. Edaphic factors	d. All of these		
159. Range Management is the sci	ence and art of:				
a. Grazing of animals		b. Forage production	on		
c. Soil & water conservati	on	d. All above	d. All above		
160. Range can be defined as					
a. Area unsuitable for	cropping	b. Area suitable for small timber production			
c. Area suitable for f	orage production	d. None of these	d. None of these		
161. In which ecological region, the	ne ranges are in their poo	rest state of health			
a. Tropical	b. Temperate	c. Sub-Tropical	d. Alpine		
162. The range area in the arid and	l semi-arid region is				
a. 5-20%	b. 20-40%	c. 40-60% d.	None of these		
163. Low productive range area in	Pakistan is				
a. 25%	b. 40%	c. 85% d.	<20%		
164. Annual rain fall of Cholistan	range land is				
a. 100 mm	b. 100-200 mm	c. 300-400 mm d.	500-750 mm		
165. Major cause of soil erosion in	Pothowar rang land is				
a. Water	b. Wind	c. Wind and water	d. None of these		

166. Major causes of range vegetati	ion deterioration in Poth	owar is	
a. Water erosion		b. Presence of thorny vegetation	
c. Unscientific manageme	nt	d. Undulating	
167. The vegetation of grazing land	ds along rivers (Bela) ar	e	
a. High in diversity	b. Medium diversity	c. Poor diversity	d. None of these
168. Highly productive range area	in Punjab is:		
a. D.G. Khan	b. Pothowar	c. Thal	d. Cholistan
169. Which of the district falls in al		-	
a. D.I. Khan	b. Khoat	c. Dir	d. None of these
170. Salt range area of Pakistan inc	ludes	1 771 1	
a. Cholistan range area		b. Thal range area	
c. Pothowar range area		d. D.G.Khan range are	ea
171. Forage production of Pothowa	-	-	
a. By increasing stocking rate		b. Stock water development	
c. Introducing improved br		d. None of these	
172. Livestock production on grazi	-	Ductorsion for noon	nost d. Old musfassian
a. Very modern profession	-	c. Profession for near j	
173. For range livestock manageme	ent and improvement the	b. Interested	generany
a. Very much interested c. Not fully aware		d. Neither aware not	interested
174. The in different attitude for im	provomant of range live		
a. Traditions	iprovement of range rive	-	-
c. Low productivity		b. Lack of private ownershipd. Poor socio-economic factors	
175. The productivity of range is af	fected through	u. I oor socio-econom	ne factors
a. Overgrazing	b. Undergrazing	c. Both of these	d. None of these
176. Carrying capacity of four hact	0 0		d. Hone of these
a. Good	b. Excellent	c. Fair	d. Poor
177. Xerophytes are the plants of	5. Excenent	c. i un	u . 1 001
a. Marshy area	b. Desert area	c. Rain fed area	d. None of these
178. Major objective of range mana		•••••••	
a. Water and soil conservation	0	b. Grazing and wildlife	e management
c. Forage production and		d. Watershed manager	-
179. Major product of range land is	0 0		0 0

b. Livestock and their products c.Soil + waterd. None of these a. Livestock 180. Minimum range area is found in province of d. Baluchistan a. Khyber-Pakhtoon-Khawa b. Punjab c. Sindh 181. Maximum range area is found in province of d.Baluchistan a. Khyber-Pakhtoon-Khawa b.Punjab c.Sindh 182. Major land use in Khaber-pakhtoon-Khawa is a. Forestry b. Farming c. Livestock production d. Mining 183. Overgrazing means when grazing intensity is a. 25% b. 40% c. 50% d. 70% 184. Vast area supporting natural vegetation which is suitable for grazing and browsing by livestock is known as a. Vast waste land b. Pasture land c. Range land d. Barren land 185. Application of science and art on range lands for obtaining maximum yield on sustained basis is termed as a. Range management b. Range improvement c. Waste land management d. None of these 186. Range area of Pakistan is variable due to texture and structure of b. Rain fall and temperature d. All these factors a. Soil d. Altitude 187. Soils of range lands in Pakistan are generally a. Fine textured **b.** Light textured c. Medium textured d. None of these 188. Vegetation of arid range lands of Pakistan is dominated by a. Shrubs **b.** Grasses c. Trees d. Herbs 189. Vegetation of moist subtropical rangelands is dominated by **b.Trees and shrubs** c.Trees and forbs d.None of these a. Grasses and shrubs 190. Thal and Cholistan range area of Pakistan have b. Very dense vegetation a. Dense vegetation c. Sparse vegetation d. None of these 191. Percentage of range area of Punjab is: c. 60% a. 78% **b. 40%** d. 55% 192. Range area of Baluchistan is a. 8.20 m.ha b. 7.80 m.ha c.6.10 m.ha d. 27.40 m.ha 193. Range site provides to plants

a. Water b. Nutrients c. Mechanical support d. All of these 194. Edaphic factors includes a. Soil depth d. Slope b. Altitude c. Aspect 195. Decline in forage yield results decrease in Timber production b. Timber + livestock production c. Livestock production a. b. Wildlife production 196. The degradation of range lands is a result of: a. **Deterioration of vegetation** b. Soil + water conservation c. Enhance watershed value d.Encourage tree culture 197. Technical name of Van is a. *Tecoma undulata* b. Capparis aphylla c. Salvadora oleoids c. Prosopis cineraria 198. Salt tolerant plants are known as b. Epiphyte d. Halophyte a. Xerophyte c. Mesophyte 199. Perennial woody plant without a distinct upright stem is known a. Herb b. Shrub c. Scrub d. Tree 200. The limiting factor for plant growth in range lands of dry region is a. Slope b. Temperature c. Precipitation d. Texture and structure of soil 201. Ideal temperature range for photosynthesis is: a. 0-18 ^oC b. 18-30 °C c. 32-45 °C d. 35-55 °C 202. Watershed management means to a. Conserve water b. Conserve soil c. Conserve soil and water d. Promote vegetation 203. Poaceae family include the following range plants a. Shrubs b. Forbs c. Trees d. None of these 204. Rearing more no. of livestock than the carring capacity of the range is called a. Overgrazing b. Overstocking c. Undergrazing d. Understocking 205. Range plants growing in normal soil are called a. Mesophytes b. Hydrophytes c. Xerophytes d. Halophytes 206. Poor range condition gives the following forage production from their climax species a. <25% b. 25-50% c. 50-75% d. 75% 207. Panicum antidotale is locally known as a. Haway b.Khawi c. Malai d. Kaj 208. Cenchrus ciliarus grass is found in following regions a. Arid b.Semi arid c. Subhumid d. All of these

209. Range improvement operations increase: a. Run off b. Water erosion c. Site potential d. Forage production 210. Range improvement operations decrease c. Site in accessibility d. All of these a. Desertification b. Increaser and invader 211. The leaf of a legume plant has the following parts d. None of these a. Blade b. Sheeth c. Ligule 212. Range ecosystem is comprised of following components a. Site b. Plants c. Animals d. All of these 213. Man is: **b.** Omnivorous c. Carnivorous d. None of these a. Hervivorous 214. Carrying capacity of 54 ha/A.U/year shows that site is a. Good b. Fair c. Excellent d. Poor 215. A cow needs how much quantity of air dry forage per day c. 8 kg d. 9 kg a. 13.5 kg b. 16 kg 216. Buffalo is equivalents to b. 0.6 Animal unit a. 1.3 Animal unit c. 1.5 Animal unit d. 1.7 Animal unit 217. Uniform grazing leads to a. Undergrazing b. Overgrazing c. Proper utilization of forage d. None of these 218. Uneven grazing is due to a. Distant location of water points b. Animal behaviour d. All of these c. In accessibility in the range 219. Grazing according to carrying capacity means a. Grazing in equilibrium with available forage b.Grazing according to available livestock c. Grazing according to the kind of animals with respect to the kind of forage available. d. None of these 220. Normally half of the biomass be grazed, but some times intensity of range use is different for each range and depends on **a.** Kind of plants b. Growth stage of plants c. Temperature and rain fall d. All of these 221. No. of plants per unit area is known as a. Frequency **b.** Density c. Intensity d. Dormancy 222. Plants complete their lifecycle in a very short time are a. Mesophytes b. Helophytes c. Ephemeral d. Xerophytes 223. Air dried forage used to feed livestock is called a. Herbage b. Silage c.Fodder d.Hav 224. Plant species whose no. decreases in response to heavy grazing known as

a. Increaser **b.** Decreaser c. Invader d. None of these 225. Plant species which occupy range land rapidly and dominant existing species are known as a. Increaser b. Decreaser c. Invader d. None of these 226. Which of the area is highly productive from livestock grazing point of view a. Scrub forest b. Temperate forest c. Pastures d. Desert range lands 227. Very low production range area in Punjab is b. D.G. Khan c. Cholistan d. Thal a. Pothowar 228. Which of the district is included in Pothowar range area b. Bhakkar d. Rawalpindi a. Faisalabad c. Narowal 229. Total area of sindh province is a. 25 m.ha. b.10 m.ha c.12 m.ha d. 14.09 m.ha 230. Total range area of all provinces is d. 79 m. ha a. 80.75 m. ha b. 75. 1 m. ha c. 100 m. ha 231. Percentage of range area of Baluchistan province is b. 79% a. 90% c. 68% d. 80 % 232. Range area in Sindh is a. 7.80 m. ha b. 15.1 m. ha c. 10.9 m. ha d. 5.2 m. ha 233. Total area of Azad Jammu and Kashmir is a. 4.10 m. ha b. 5 m. ha c. 2.33 m. ha d. 1.33 m. ha 234. Range area in Azad Jammu and Kashmir is d. 2.07 m.ha a. 1 m. ha b.1.5 m. ha c. 0.6 m. ha 235. Deserts or semi-deserts' Cholistan range land is found in : a. Khyber Pakhtoon Khewa province **b.** Punjab province c. Sindh province d. Baluchistan province 236. Chagi and Kharan range lands are found in a. Khyber Pakhtoon Khewa province b. Punjab province c. Sindh province d. Baluchistan province 237. Khohistan range land is found in b. Baluchistan c. Sindh d. Gilgit-Baltistan a. Khyber Pakhtoon Khewa 238. Thar parker (Thar) range area is located in the province of a. Sindh b. Punjab c. Baluchistan d. Khyber Pakhtoon Khewa 239. lasbela-Makran coast range area is found in a. Baluchistan b. Punjab c. Sindh d. A.J.K 240. The deserts in Pakistan are the result of

a. Overgrazing b. High temperature c. Overcutting of woody vegetation d. Aridity 241. Range lands of Pakistan are presently producing the following percentage of their potential a. 0-10 b. 20-40 c. 10-50 d. 70-80 242. The current trend of range deterioration has d. None of these a. Stopped completely b. Stopped partially c. Still in progress 243. Consequently the out-come of range deterioration has taken the following forms a. Decrease in number of desirable forage species b. Deterioration of soil vegetation and wildlife c. Speed up the process of desertification d. All of these 244. Overexploitation of range vegetation has led to a. Reduction in the vigor of range plants b.Reduction in water holding capacity of soil c.Reduction in wildlife d. All of these 245. Shortening of growing and grazing period in our ranges is the result of a. **Seasonality** b. Overgrazing c. Vegetation cover d. None of these 246. Natural unit comprises of specific site, native vegetation and animals of all kinds as well as local people living together at one time having nearly well defined boundaries and being independent of their similar units is referred to as b. Ecosystem c. Sociology d. Social system a. Ecology 247. Range animals consist of only a. Game animals b. Livestock c. Rodents d. All of these 248. Following percentage of solar energy is utilized and converted by primary producers (range plants) into plant organic molecule or compounds a. 6% **b.** 1% c. 3% d. 8% 249. Low production from range site means loss of energy from the site which is attributed due to a. Little erratic and irregular rain b. Loss of soil due to wind and water erosion c. Occurrence of floods and droughts d. All of these 250. Major factors in a range ecosystem responsible for the loss of solar energy (radiation) are a. Lack of range vegetation cover b. Reduced efficiency of range vegetation cover for capturing and utilizing the solar energy c. Both of these d. None of these 251. Wildlife generally refers to all species of: a. Mammals b. Birds c. Reptiles d. All of the above 252. Different kinds of wild animals have been named in the: a. Bible b. Isaiah (7:24) c. Ouran d. All of the above

253. The linkage of humans and animals and the importance of wildlife in the past years has been brought to limelight largely because we have learnt that their existence is inextricably tied to our own: a. 50 b. 100 c. 150 d. 200 254. In addition to their role in the ecosystem, the value of wildlife is also found in their _____ d. all of the above a. educational b. scientific aesthetic c. 255. Pakistan being located on the confluence of the western end of the Indian subcontinent and the Iranian plateau supports a varied and interesting mix of flora and fauna belonging to the: a. Indo-malayan b. Palearctic regions c. some forms originating from the Ethiopian region d. All of the above 256. Pakistan can be divided into how many biogeography provinces including: a. Parmir b. Karakorum highlands c. Himalayan highlands d. All of the above 257. Rich in fauna and flora areas: a. Northern mountainous areas embracing Himalayan, Karakorum and Hindu Kush ranges b. In Northern areas, Malakand, hazara and azad Kashmir are rich in fauna and flora c. both (a) & (b) d. None of these 258. Himalayan foothills and the potwar region including ______ are covered with the scrub forests which have been reduced to scanty growth at most of the places: a. Salt range b. Kala chitta range c. Both (a) & (b) d. none of these 259. Medium size animals like _____ urial, barking deer, goral and chinkara and partridges - grey, black, seesee and chakor are supported in these habitats: a. Punjab KPK Sindh d. Baluchistan b. c. 260. Chinkara is the only animal which can still be found in fair numbers in and rarely in Thal: Both (a) & (b) a. Cholistan b. Thar c. d. None of these 261. Indian courser are the main bird species. peafowl occurs in some areas of _____ a. Cholistan c. Thar d. None of these b. Thal 262. Irrigated forest plantations have emerged as a new land use practice for the last _____ years: 100 50 b. 200 c. 150 d. a 263. Birds of prey like: a. Marine turtles b. Ridley, green c. Peregrine d. All of the above 264. Along the shore there are species of: a. Peregrine b. Cherrug c. Leather back and hawk bill d. Tawny eagle 265. The important waterfowl in Pakistan are: a. Marine turtles b. Ridley, green c. Geese (greyiage, bar-headed) d. All of the above

266. The species characteristics are an expression of the genetic make-up of an animal species influencing the extent and nature of _____ a. home range, breeding season longevity, territory, and the niche b. d. c. both (a) & (b) none of these 267. Habitat destruction is the indirectly acting factor while _____ hunting are the main direct human factors affecting wildlife populations: b. both (a) & (b) d. none of these a. legal illegal c. 268. Understanding population dynamics involves rates of change from _____ b. two years to the next c. three years to the next d. none of these a. one year to the next 269. Carrying capacity is a balance between _____ a. vegetation and animals b. by an expression of animals density c. both (a) & (b) d. none of these 270. The concepts of population dynamics and carrying capacity led to management of wildlife which may be defined as: b. science of manipulating the centrum of wild animal populations to meet specific objectives a art c. both (a) & (b) d. none of these 271. Species management includes: techniques of stocking, game ranching, refuges, hunting manipulating habitat factors b. a. c. both (a) & (b) d. none of these 272. The regulations towards the management of wildlife in the subcontinent date back to ______ when the policy guidelines were given for the conservation of natural resources: a. 1894 1896 b. 1898 1900 с. d. 273. The forest act was promulgated in ______ which was later adopted by the government of Pakistan. 1927 d. a. 1925 b. 1926 c. 1928 274. The forest policies having ceased to be relevant were later revised in 1955, and then in ______ a. 1960 1962 1964 d. 1966 b. c. 275. Forest act ______ has new been revised by the authors of forestry sector master plan: a. 1925 b. 1926 1927 d. 1938 c. 276. Wildlife was managed under West Pakistan wildlife management ordinance ____ b. 1957 1959 d. 1961 a. 1955 c. 277. Realizing the need for a better management policy for wildlife, a high-powered wildlife, a highpowered wildlife enquiry committee, constituted by the government of Pakistan presented their (draft) report in 1970, following which all the provinces and administrative unit promulgated their own wildlife act within administrative units promulgated their own wildlife act within a span of two years _____ a. 1974 and 1975 b. 1975 and 1976 c. 1976 and 1977 d. none of these

278. Realizing the need for the conservation of national resources, the government of Pakistan with the assistance of the world conservation union (IUCN) framed a national conservation strategy ______

a. **1992** b. 1993 c. 1994 d. 1995

279. The salient features of the strategy 1992 relating to wildlife, referred to here as biodiversity, are:

a. The strategy to improve the situation b. action plan c. actions/interventions d. **all of the above** 280. Actions/interventions is:

a. re-organization of protected area system

b. community participation in the conservation and management of biodiversity

c. development of human resources d. **all of the above**

281. Re-organization of protected area system is:

a. the basic scientific data being available on key ecosystems, sites

b. species needing protection

c. both (a) & (b) d. **none of these**

282. Conservation program for the future may include:

a. habitat evaluation and management b. rehabilitation of the habitats

c. minimizing the rate of deforestation and desertification d. **all of the above**

283. Endangered habitats or wildlife species could also be identified completely or partially outside the protected areas. Conservation programs should therefore be addressed to:

a. involvement of local communities. work to be undertaken outside the protected area system, hence heavily based on community-led and managed activities, and awareness building

b. reduced hunting be the message to be conveyed to different offices

c. promotion of non-chemical control of agricultural pests d. **all of the above**

284. Windbreaks/shelterbelts cover:

a. trees and / or shrubs can substantially improve the productivity of farmlands

b. they are exposed to strong winds c. both (a) & (b) d. none of these

285. The best windbreaks approach is 100% crown density in the low-profile shrub, rows, and ______ density in the tall rows:

a. **50%** b. 60% c. 70% d. 80%

286. In Pakistan, because of small field size, most often 2 or 3 rows windbreaks are used, and should expect the effects to reach only about 12h downwind and _____ upwind:

a. 1h b. **2h** c. 3h d. 4h

287. A windbreak with 50% crown density is more effective than one of either 100% or of ______ density:

a. 15% b. 20% c. **25%** d. 30%

288. After proper design and establishment of the windbreak, the farmer needs to pay particular attention to a key management needs: a. Grazing protection b. Fire protection Pruning d. all of the above с. 289. Terracing is an effective method of soil conservation: desert areas d. riverine areas b. hilly areas c. plains a. 290. Which is the main causative factor for desertification? d. developmental activities a. irrigated agriculture b. overgrazing c. tourism 291. Deforestation may reduce the chances of: a. rain fall b. frequent cyclones c. erosion of surface soil d. frequent landslides 292. Deforestation causes: a. soil erosion b. pollution no floods d. none of these c. 293. One of the following crops is the most effective in controlling soil erosion: cotton a. b. pigeon pea c. green gram d. maize 294. Sheet erosion is caused by: a. fast running rivers b. wind c. heavy rains d. glaciers 295. Soil conservation can best achieve by having: wind screens b. good plant covers c. restricted human activity d. low rainfall a. 296. Main indicator of soil erosion is: a. **deforestation** b. afforestation c. ozone layer d. goats and grazing animals 297. Dark colored soils are considered most fertile as they contain: b. sand and calcium c. clay and humus d. silt and earthworms a. gravel and sand 298. Eroded soils are: c. devoid of plant nutrients d. all of these a. rich in plant nutrients b. unaltered in plant nutrients 299. Fifth of June is celebrated as: a. World environment day b. Darwin's birthday c. World health and hygiene day d. World population day 300. Mulching helps in: a. **Moisture conservation** b. Weed control c. Improvement of soil structure d. Increasing soil fertility 301. What is the major cause of diminishing wildlife? b. habitat destruction c. felling of trees d. paucity of drinking water a. cannibalism 302. Soil erosion can be prevented by: a. deforestation b. heavy rains c. afforestation d. over grazing 303. Which of the following plants is used as windbreak? a. delonix b. Mangifera c. eucalyptus d. prosopis

304. Side effect of heavy and constant grazing is that the: upper layers of soil are loosened and are eroded a. lower layers are made more compact and root respiration is interfered with b. d. all of the above lower compact layers make root penetration difficult c. 305. The possible beneficial effect of the grazing animals is: addition of their excreta to the soil b. eradication of weeds a d. removal of wild animals removal of wild plants c. 306. The cutting of trees from the forests of hill near a catchment area: will have no effect on causing floods in plain a. b. will benefit the mankind for more area for cultivation will have no effect on climatic condition of that area d. may cause flood in plains in rainy season c. 307. Grasses possess great regenerative power because they are: a. dominant species b. rhizomatous c. constantly grazed d. fast growing 308. Soil erosion in plains consequent to rain fall is initiated by: a. rill erosion b. sheet erosion c. gully erosion d. all of these 309. If the topsoil has been eroded, we retire a land and grow over it: a. lichens b. blue-green algae c. legumes d. grasses 310. If the same crop is repeatedly grown in a field: nitrogen starvation many result b. specific mineral deficiency may arise a. c. soil will become prone to diseases d. water level in soil will recede 311. Bunds, dams and drains are constructed to prevent: a. stream bank erosion b. sheet erosion c. slip erosion d. gully erosion 312. The amount of soil lost to sea each year due to rainfall is around: a. 3.000 million tons b. **3.000.000 million tons** c. 3,00,00,000 million tons d. 3,00,000 billion tons 313. The chief cause of accelerated erosion is: a. excessive rains b. windstorms c. overfelling and overgrazing d. all of these 314. In dry farming initially the fertility of the land can be increased by: agrostology b. basin listing c. growing grazing fields d. animal husbandry a. 315. If there is a little slope in the field, the soil erosion can be prevented by: a. contour terracing b. contour strip cropping c. contour farming d. all of these 316. The fertility level of any soil is generally determined by: a. aeration and hydration b. humus and mineral contents c. humus, mineral and hydration level d. all of these

317. The most common method used for cultivation on hills: a. levelling b. ridging c. bench terracing d. channeling 318. The removal of weeds by ploughing is called: a. mulching b. fallowing c. tilling d. contour farming 319. Terracing is done in: desert areas b. hilly areas d. plain areas ล c. dry areas 320. What are the helping factors of watershed management? evolve a long watershed policy for conserving the country's watershed a. alternatives must be provided to the local community b. appropriate funds must be allocated d. all of the above C. 321. What is the object of watershed management? a. an increase in agricultural production which maintains the quantity of affordable food available to majority of population b. increasing or maintaining standard of buying of growing population increasing gross national product and employment opportunities in all areas of nation c. d. all of the above 322. Material deposited by flowing water is called _____ a. alluvium b. alluvial fans c. albedo d. none of these 323. The basic components of watershed cycle are: b. canopy interaction c. thorough fall d. all of the above a. precipitation 324. Types of fire are: a. ground fire b. stem fire crown fire d. all of the above c. 325. Managing watershed in forest area is / are : practices for soil protection and flood control b. practices for increasing water yield a. c. both (a) & (b) d. none of these 326. Concentrate water saving efforts with: c. check dams d. all of the above vegetation b. engineering structures a. 327. Cropping methods in watershed areas are: a. land consideration: land is divided into small pieces of different owners b. land classification: should be done according to (i) permeability (ii) percentage of cover (iii) type of vegetation cover none of these c. **both** (a) & (b) d. 328. Stream flow or discharges means:

a. it is quantity of water flowing in the stream or channel

b. quantity, quality and timing of	water yi	ields are	mostly affected by man		
c. both (a) & (b)	d.	none o	f these		
329. The main causes of flood are:					
a. rainfall pattern b. denudation i	s waters	shed			
c. compaction of soil and decrease	in inf ra	te	d. all of the ab	ove	
330. Range resources of Pakistan a	re:				
a. due to bioclimatic variations, the	ie range	vegetati	on varies from one area	to other	
b. range condition of the areas als	o varies	from sit	e to site		
c. alpine pastures and northern me	ountain	ranges a	e comparatively in fair t	o good c	ondition
d. all of the above					
331. The region constitutes a series	of high	mountai	n ranges of:		
a. Karakorum b. Hine	duKush		c. Pamir		d. all of the above
33 2. The altitude varies from 1500	to 8600	m and ir	cludes 19 peaks over 76	500 m, su	ich as:
a. K2 b. nanga parbat		c.	Rakaposhi	d.	all of the above
333. Major land forms choli	istan des	sert range	es is / are :		
a. subrecent river plain					
b. the first sandy terrace above the	e hakra i	river (lat	e Pleistocene)		
c. the second sandy terrace above	the kak	ra river p	olain (late Pleistocene)		
d. all of the above					
334. Natural revegetation is:					
a. cheapest and slow process of	rehabili	itating d	epleted rangelands		
b. costly and fast process of rehab	oilitating	g depleted	l rangelands		
c. both (a) & (b)	d.	none o	f these		
335. Which area of Pakistanha a hi	gh poter	ntial for r	atural revegetation:		
a. Pothwar	b. Cho	olistan	c. river side		d. none of these
336.Artificial reseeding is p					
a. when natural vegetation cann	iot reco	ver with	in a short period and tl	here are	few desirable species
b. in grassy plains					
c. in flooded areas d.					
d. none of these					
	-		_	-	rt rangeland in Pakistan:
a. proper selection of range sites			of ecologically suitable	species	
c. elimination of plant competitio	n	d.	all of the above		

338. The desert rangelands of _____ are within the reach of monsoon rainfall:

a. thal b. cholistan

c. thar d. **all of the above**

339. _____ mountains of Pakistan are subject to heavy soil erosion:

a. **northern** b. western Baluchistan ranges

c. southern d. eastern

340. The terms _____ are used synonymously:

a. watershed and catchment b. land body and dimension depth

c. both (a) & (b) d. none of these

41. About 70% of the _____ hectares of land on earth are watershed land:

a. **10 billion** b. 15 billion

c. 20 billion d. 25 billion

342. At present _____ population is living in the watershed areas and are converting forest into agriculture land for food production:

a. **50-80%** b. 55-85%

c. 60-90% d. 65-95%

343. The importance of watershed management was realized when Pakistan signed Indus water treaty with India through which right of water of _____ was given to India while Pakistan has the right on river Indus and Jhelum:

a. Chenab b. Ravi

c. Sutlej d. **all of the above**

344. Mangla dam on river:

a. **Jhelum** b. Chenab

c. Indus d. ravi

345. Tarbela dam on river:

a. Jhelum b. Chenab

c. Indus d. Ravi

346. In Pakistan about ______ area is arid or semi arid and agriculture is not possible without irrigation:

a. 40% b. 50%

c. **60%** d. 70%

347. Tarbela dam is being silted at _____ acre feet per year while mangla is being silted at a rate of _____ acre feet per year due to misuse of their watershed area:

a. **109000, 42,000** b. 110000, 43000

c. 115000, 44,000 d. none of these

348. Main source of energy in Pakistanis :

a. **hydro-electricity** b. atomic energy

c. coal energy d. none of these

349. Management constraints - the constraints of management need to be identified in the initial phase of planning:

a. physical b. biological

c. social d. **all of the above**

350. Watershed management planning phases is / are:

a. reconnaissance survey b. local or watershed level survey

c. watershed inventory d. **all of the above**

351. The determination of the dimensions, form, volume, age and increments of logs, single trees, stands or whole wood is termed as

a. Forest ecology b. Forest mensuration c. Forest taxonomy d. Silviculture
351. Head loads, donkey loads, camel loads and cart loads are frequently used in to sell the _____.
a. Tree fruits b. Tree products c. Bark d. Firewood

352. Terminal tree height and ______ at breast height are required to calculate the volume of cylindrical tree stem.

353.	Cross sectional area	b. Tree form	c. Roots length	d. Bark color
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354. On sloping grounds, the diameter at breast height (DBH) of a tree is determined from

a. Eastern side b. **Uphill side** c. Downhill side d. Northern side

355. Christen's Hypsometer, used to measure tree height, is constructed on the____ principles

a. Chemical b. Biological c. Trigonometric d. **Geometric**

356. Smalian and Huber's formula are appropriate to calculate the volume of a tree stem fraction when it resembles with frustum of a _____.

b. Cone c. Neloid d. Paraboloid a. Cylinder 357. Which one of the formula is used to roughly estimate the tree volume without bark? a. Newton's formula b. Huber's formula c. Quarter girth formula d. Pressler's formula There are _____board feet in one cubic foot. 358. a. 6 b. 12 c. 18 d. 24 359. Fuel stacks in Pakistan, locally called "Pharies" are usually made with dimensions (length \times width \times height).

a. $30 \text{ ft} \times 10 \text{ ft} \times 10 \text{ ft}$ **b. 40 ft \times 5 \text{ ft} \times 5 \text{ ft}**

b. c. $50 \text{ ft} \times 2 \text{ ft} \times 2 \text{ ft}$		d. 60 ft × 8 ft × 8 ft				
360. Form factor is the ratio of tree true volume to the volume of a			vith the same diameter and			
height as the tree.						
a. Cylinder	b. Cone		c. Neloid d. Paraboloid			
361. According to FAO (2	010), deforestation rate i	n Pakistan from 1990 to	2010 was			
a. 0.66 %	b. 1.66 %	c. 2.66 %	d. 3.66 %			
362. Pakistani forests contain about million tons of carbon						
a. 213	b. 313 c. 413	d. 513				
363. According to World Bank (2015), forest cover in Qatar is about:						
a. 0 %	b. 15% c. 30%	d. 45%				
364. Carbon sequestration by trees and vegetation is the carbon sequestration throughprocess						
a. Physical	b. Chemical	c. Biological	d. Biochemical			
365. The most abundant ar	nd naturally present gas i	n the atmosphere is:				
a. CO_2	b. Oxygen	c. Nitrogen	d. CH ₄			
366. Research is carried ou	it to					
a. Investigate sys	stematically	b. Discover and interpr	ret the facts			
b. Advance the k	nowledge d. All	of them				
367. A document submitte	d in support of a candida	ture for an academic deg	ree presenting the author's			
research and findings	is called:					
368. Report	b. Thesis	c. Synopsis	d. Project			
369. In the project, a speci	fic model for activity pla	ns that illustrates how th	e activities are interconnected is			
termed as						
a. Activity chart	b. Ghantt chart	c. Flow chart	d. U-chart			
370. In research manuscrip	ot authors' list, first author	or is called?				
a. Section editor	b. Last author	c. Principle author	d. Co-author			
371. Higher Education Commission (HEC) of Pakistan has placed the non- impact factor journals in						
category.						
a. X	b. Y	c. Z	d. All of them			
372. Which country does not have any river?						
a. France	b. Pakistan	c. Brazil	d. Saudi Arabia			
373. Rainforests are not located in:						
a. Pakistan	b. Brazil	c. Columbia	d. Indonesia			
374. FPS (Foot, Pound, Second) system of measurements is also named as:						
a. Metric system	b. CGS system	c. English System	d. Local system			

375. If girth of a tree is 4 feet and 7 inches, that will be equal to about: a. 4.70 feet b. 4.25 feet c. 4.58 feet d. 4.16 feet 376. Which one of the following instrument can't be used for tree diameter measurement? a. Angle guage b. Relaskope c. Vernier caliper d. Abney's level 377. The distant between ground level and the basal portion of the main stem when a tree is cut is termed __height: as b. Bole c. Merchantable d. Total a. **Stump** 378. A piece of roundwood having _____ diameter at thin end is called Timber in Pakistan. a. 2 inches b. 4 inches c. 6 inches d. 8 inches 379. The most accurate and direct method of volume measurement that can be employed for irregular shaped wood is: a. Haga altimeter b. Xylometer c. Dendrometer d. Hypsometer 380. The specific gravity or relative density can be calculated by dividing the density of liquid or solid with the density of : a. Air b. Water c. Shisham wood d. Soil 381. The average annual increment at any age is termed as: a. CAI b. PMAI c. MAI d. GBH 382. A physiological process in plants in which biotic components are converted to aboitic components with the release of energy is called: a. Photosynthesis b. **Respiration** c. Transpiration d. Evaporation 383. Branch of ecology which deals with the interaction between individuals and populations of different species is ecology: a. a. **Community** b. Population c. Landscape d. Evolutionary 384. Which one of the following light colour is not absorbed by plants? b. Blue d. Yellow a. a. Red c. Green 385. Shade intolerant plants are also called: a. Sciophytes b. Helophytes c. Hydrophytes d. Halophytes 386. Plants which grow in habitats, which are neither dry nor wet and temperature of the air is neither too high nor too low are called: a. Xerophytes b. Mesophytes c. Sciophytes d. Hydrophytes 387. Plants which live in the high temperature throughout the year are called: d. None of these a. Megatherm b. Mesotherm c. Microtherm 388. Soil drainage falls in a. Climatic Factor b. Physiographic Factor c. Edaphic Factor d. Pyric Factor

389. Change in the allelic frequencies within the gene pool of a population is called: a. Adaptation b. Evolution c. Acclimation d. Modification 390. Extra-ordianry thick bark of chir-pine (*Pinus roxburghii*) stem which protects it from fires is a_____adaptation: a. **Morphological** b. Physiological c. Behavioural d. Huge 391. Small, hardy and thick leaves of Van (Salvadora oleoides) which cut down transpiration losses is a____adaptation: a. **Morphological** b. Physiological c. Behavioural d. Huge 392. Tolerance of waterlogging by Dib (Typha angustifolia) and willow (Salix tetrasperma) etc. is a _adaptation: a. Morphological b. **Physiological** c. Behavioural d. Huge 393. Folding of leaves of Siris (*Albizzia lebbek*) at night to further cut down transpiratory losses is a _adaptation:. a. Morphological b. Physiological c. Behavioural d. Huge 394. Mimicry in animals and birds is a good example of _____adaptation: a. Morphological b. Physiological c. Behavioural d. Huge 395. An interdependent multidirectional relation between producers and consumers is called: a. Food chain b. Food web c. Food box d. Ecosystem 396. The process of propagule growth and their adjustment in the new area is called: a. Stablization b. Migration c. Ecesis d. Aggregation 397. Ecological feeding relationship between two or more organisms living closely together in such a way that one benefit and there is no effect on other, is termed as: a. Mutualism b. Neutralism d. Predation c. Commensalism 398. Ecological feeding relationship between two or more organisms living closely together in such a way that one benefit and other dies, is termed as: b. Neutralism c. Commensalism d. Predation a. Mutualism 399. The type of succession that occurs in areas that are devoid of any life, is termed as: a. Zero succession b. New succession c. **Primary succession** d. None of these 400. Term "Taiga" is used for which type of forests? b. Rainforest c. Riverine d. Boreal a. Mangrove 401. It is not a type of biome: a. **Ocean** b. Forests c. Deserts d. Grasslands 402. How much speed of wind can cause uprooting of trees a. 10Km/H b. 20Km/H c. 30Km/H d. 40Km/H

403.		Which tree has yellow flowers in May-June				
	a.	<i>Cassia fistula</i> b. <i>Vachellia nilotica</i> c. <i>Bombax ceiba</i> d. None of these				
404.		Which one is best for taking cutting				
	a.	Lateral shoot b. Succulent shoot c. Top portion of shoot d. None of these				
405.		The plant that grows in full sun light is called				
	a.	Haliophyteb. Halophytec. Psammophyted. Hydrophyte				
406.		Which type of plant is known as "Sciophyte"				
	a.	Light demanderb. Shade lovingc. Light sensitived. None of these				
407.		Which one is best for taking cutting cutting				
	a.	Lateral shootb. Succulent shootc. Top portion of shootd. None of these				
408.		Vivipary occurs in				
	a.	Plantsb. Animalsc. Bothd.d. None of these				
409.		Stumps are prepared from				
	a.	Seedlings b. Shoots c. Leaves d. None of these				
410.		Best planting method for waterlogged soils is				
		a. Dibble planting b. Mound planting c. Berm planting d. All of these				
411.		Soil transported and deposited by water is called				
		a. Alluvial soil b. Loess soil c. Colluvial soil d. All of these				
412.		A temporary dam for re-routing original stream flow to allow the construction of permanent				
da	m is	called				
		a. Dam b. Kaffir dam c. Barrage d. All of these				
413.		The instrument used for measuring intensity of radiant energy is called				
		a. Psychrometer b. Pyrheliometer c. Actinometer d. Tensiometer				
414.		A wall constructed on uphill side along roads in hilly areas for soil conservation				
		a. Breast wall b. Retaining wall c. Barrage d. Diversion wall				
415.		Streams contributing to ground water are called				
		a. Effluent streams b. Influent streams c. Perenial streams d. All of these				
416.		Downward movement of water towards deeper soil horizon is called				
		a. Seepage b. Percolation c. Run off d. None of these				
417.		Majority of the world water is bound chemically in the minerals i.e.				
		a. 5.24% b. 98% c. 1.02% d. 94.75%				
418.		One Cubic foot of water flowing through a point in one second is				
		a. Acre-feet b. Million acre-feet c. Cusec d. mL				
419.		Avicinia is an important specie of				

	a.	Temperate forests b. Mangrove forests c. Sub-tropical forests d. Alpine			
420.		Pinus roxburghii is an important specie of			
	a.	Sub-tropical forests b. Tropical forests iii) Temperate forests iv) Alpine forests			
421.		Loss of water molecule from different plant parts is called			
	a.	Transpiration b. Evaporation c. Interception d. Evapo-transpiration			
422.		Lateral movement of water on soil surface under the force of gravity is			
	a.	Percolation b. Runoff c. Seepage d. Infiltration			
423.		Movement of water in any direction under adhesive and cohesive forces is called			
		a. Recharge b. Seepage c. Throughfall d. All of these			
424.		A small unstable seasonal streamlet which cannot be ploughed up easily is			
		a. Gully b. Rill c. Contour d. Passel			
425.		Watersheds are important because			
		a. Provide residence b. Freshwater source c. Livelihood provision d. All of these			
426.		Water that accumulates in the ground after passing through the surface is called			
		a. Hygroscopic water b. Ground water c. Fresh water d. All of these			
427.		The points on the topographic map having similar precipitation are called			
		a. Watersheds b. Isohyetes c. Command areas d. None of these			
428.		The instrument used to measure evaporation is called			
		a. Anemometer b. Lysimeter c. Actinometer d. Albedo			
429.		Area where streams empty into bodies of water instead of into large vallies is called			
		a. Sea b. Delta c. Dam d. Barrage			
430.		Moisture content of the soil after gravity drainage is called			
		a. Live capacity b. Field capacity c. Dead capacity d. All of these			
431.		The study of earth's surface forms and the process that shape them is termed as			
		a. Geomorphology b. Soil science c. Soil physics d. Topography			
432.		The plain formed at the base of some mountain range is called			
		a. Piedomont b. Foothills c. Floodplain d. All of these			
433.		Precipitation in the form of ice balls produced in convective clouds is called			
		a. Snow b. Hail c. Rime d. Glaze			
434.		The rainfall that is produced by mechanical lifting over mountain barriers is called			
		a. Cyclonic b. Frontal c. Convective d. Orographic			
435.		Forest cases are compounded under section of Forest Act 1927			
		a. Section-68 b. Section-58 c. Section-78 d. Section-48			
436.		Any act punishable under law is called			

a. **Offence** b. Crime c. Criminal misappropriation d. None of these 437. On the basis of ownership forests are classified into a. 2 categories b. 4 categories c. 6 categories d. 8 categories 438. A place where justice is administered is called a. **Court** b. Police station c. University d. None of these 439. The offences for which the police can arrest without warrant are called a. Cognizable offences b. Non-cognizable offences c. Offences d. None of these 440. Forest officers are deemed public servants under section 73 of Forest Act 1927 a. Section-68 b. Section-73 c. Section-68 d. None of these 441. Which one is considered as blanket of earth? a. Soil b. Forest c. Atmosphere d. Ozone Layer 442. Identify the province that represents the largest forest area in the country a. Sindh b. Punjab c. KPK d. Baluchistan 443. Eucalyptus was introduced in Pakistan from a. Brazil b. America c. Canada d. Australia 444. Bamboo is multiplied through a. Suckers b. Rhizome c. Tubers d. Cuttings 445. The unique functional position of each population is called as a. Habitat b. Niche c. Ecotype d. Biome 446. Most suitable tree species for silkworm rearing is a. Morus alba b. Dalbergia sissoo c. Populous deltoides d. Celtis australis 447. Working plan is a tool for a. Forest Policy b. Forest Management c. Forest Mensuration d. Forest Surveying 448. Which one is considered as a poor man's timber a. Shisham b. Kikar c. Bamboo d. Jaman 449. Pines are propagated through a. Stem cuttings b. Seeds c. Coppicing d. Both a and b 450. When CAI culminate with MAI is a. Minimum volume production b. Pruning time c. Rotation period d. Thinning time 451. Hedgerow cultivation is also known as ----- cropping a. Relay b. Alley c. Farm d. Agro 452. Growth of trees from old stubbles near ground surface is called as a. Grafting b. Planting c. Coppice d. Lateral growth 453. Major disease of forest nurseries is

a. Wilt b. Leaf spot c. **Damping off** d. Blight 454. Pruning is related to

a. **Standing tree** b. Felled tree c. Leaning tree d. Log 455. The art and science of cultivating forest crop is known as

a. Forestry b. **Silviculture** c. Afforestation d. Ecology

456. Most important species of moist temperate forests is ------

a. *Cedrus deodara* b. *Pinus roxburghii* c. *Acacia nilotica* d. *Dalbergia sissoo*

457. Excellent quality garments are prepared from the fibers of

a. **Bamboo** b. Eucalyptus c. Acacia d. Ficus

458. Which of the following is a frost tender tree species

a. **Neem** b. Shisham c. Jaman d. Pipal

459. Process by which trees and plants absorb carbon dioxide, release the oxygen, and store the carbon is called as

a. Carbon capture b. Carbon sequestration c. Carbon storage d. Oxygen releasing 460. International Day of Forests is celebrated on

a. **21**st **March** b. 5th June c. 18th August d.12th March

461. Most suitable tree for paper making is

a. **Eucalyptus** b. *Ficus bengalensis* c. *Dalbergia sissoo* d. Alstonia 462. Area where wood or other wood products are stores is known as

a. **Depot** b. Store c. Wood house d. Timber house 463. Best planting method for saline soils is

a. **Pit planting** b. Mound planting c. Bed planting d. Dibble planting 464. Roof of the forest crop is called as

a. Crown b. **Canopy** c. Bole d. Foliage

465. Climate having rainy winter and dry summer is called as

a. Tropical b. Mediterranean c. Temperate d. Subtropical

466. Forest act which is enforce in Pakistan was formulated in

a. 2004 b. **1927** c. 1947 d. 1973

467. Any area of land proclaimed a forest under forest law is called as

a. Reserved forest b. Legal forest c. Protected forest d. Urban forest

468. Tropical grasslands are called as

a Prairies b. Savannas c. Taiga d. Forest grassland

469. Any plant whose above ground part is not woody is called as

a. Shrub b. Tree c. **Herb** d. Bamboo

470. A major biotic unit consisting of plant and animal communities having similarities in a. form and environmental conditions is called as a. Forest b. Biome d. Flora c. Tropics 471. Nitrogen fixing trees belong to family d. Malvaceae a. Fabaceae b. Poaceae c. Myrtaceae 472. The severest from of erosion in hilly areas is called as a. **Gully erosion** b. Sheet erosion c. Rill erosion d. Chemical erosion 473. The science that deals with the circulation, distribution, and properties of the waters of a. the earth is called as b. Aquifer c. Watershed a. Hydrology d. Water management 474. A permanent, geographically recognisable unit of forest land forming the basis of prescription and permanent record of all forest operations is called as a. **Compartment** b. Forest land c. Legal forest d. National Park 475. Point at which diameter or girth is measured on a standing tree a. Breast height b. Timber height c. Diameter height d. Tree height 476. Taungya system was started in a. Burma b. Pakistan c. India d. Germany 477. Bamboos with single culms are called as a. Hybrid b. Sympodial c. Monopodial d. Dwarf 478. All the biotic and abiotic factors collectively are known as a. Edaphic b. Climatic c. **Environmental** d. Physiographic 4.94. Wood of which tree is considered best for furniture? d. Walnut a. Poplar b. Ipil Ipil c. Bakain 479. Xerophytes are the plants of a. Marshy land b. **Desert land** c. Rain fed land d. None of these 480. Hydrophytes are considered the plants of a. Waterlogged area b. Desert area c. Low rainfall area d. None of these 481. Mangroves forest are found in a. Desert area b. Mountainous area c. Plain areas d. Coastal areas 482. Removal of branches from the tree by assuring tree vigor i. a. Pruning b. Lopping c. Topping d. Pollarding 483. Rain forests are usually found in the regions of i. a. Moist temperate climate b. Dry temperate climate **ii.** c. Dry subtropical climate d. Tropical climate

484. Reparian vegetation is found					
485. a. Away from stream bank	b. Along streams, canals or rivers				
c. not found in bela forest	d. None of these				
486. Pnematophores are					
a. Tap root b. adventitious root c.	Arial root d. Fibrous root				
487. The term social forestry first time was coined by instrument which measures the wind speed is					
a. D. Brandis b. G. M. Khattak c.	Howard d. None of these				
488. Process by which trees and plants absorb carbon dioxide, release the oxygen, and store the carbon is					
called as					
a. Carbon capture b. Carbon sequestration c. Carbon storage d. Oxygen releasing					
489. Taungya system starts from					
a. Burma b. Pakistan	c. India d. Germany				
490. Rain forests are usually found in regions of					
a. Moist temperate climate	b. Dry temperate climate				
c. Dry subtropical climate	d. Tropical climate				
491. Temperate forest are also called					
a. Tropical forest	b. Alpine forest or coniferous forest				
c. Mangrove forest	d. None of these				
492. Pothohar range land is found in the following part					
a. Northern b. Southern c. Eastern d. Weste	rn				
493. Percentage of range area of KPK is					
a. 60 b. 80 c. 35 d. 10					
494. Range site provides to plants					
a. Mechnical supports b. Water c. Nutrients d. All of these					
495. Environmental factors consist of					
a. Climatic factors b. Edaphic factors c. Biotic factors d. All of these					
496. Range land are found in the following provinces					
a. Punjab b. Sindh c. Balochistan d. All of these					
497. Edaphic factors are related to					
a. Soil b. Atmosphere c. Topography d. Humidity					
498. Total area of Punjab province is					
a. 34.72 m.h b. 20.63 m.h c. 14.09 m.h d. 10.00 m.h.					
499. Removal of branches in order to ensure vigor of standing tree					
a. Pollarding b. pruning trees c.	lopping trees d. None of these				

500. Tropical rain forest are located where

a. Rainfall is high b. Rainfall and temperature is high

b. Temperature is high

501.

- a. Alpine zone b. Subtropical zone
- b. Mediterranean climate zone

e. Ruman and temperature is mgn

d. **Rainfall, temperature and humidity is high** Amazon forest is located in

- d. Tropical zone
- 502. Agro forestry is the practices of
 - a. Only growing trees b. Growing trees along with crops on the same field
 - a. Only growing crops d. None of these

503. Dominant trees are the

a. Tallest and have completely free crown

- b. Smallest and have not completely free crown
- c. Combination of above 1^{st} and 2^{nd} statement
- d. None of these
- 504. Even aged forest are
 - a. Forest with trees of different ages
 - c. Combination of 1st and 2nd statement d. None of these
- 505. Most productive forest of the world are
- a. Alpine forest b. **Tropical rainforest** c. Thorn forest d. temperate forest 506. Fir, Spruce and Deodar species are found in
 - a. Coniferous forest b. Scrub forest c. Subtropical pine forest d. none of these.
- 507. Amazon forests are located in
- a. Alpine zone b. Subtropical zone c. Mediterranean climate zone d**. Tropical zone** 508. Good quality paper is manufactured from
 - a. Bamboo plants b. Shisham tree c. Sugarcane bogas d. Kikar tree
- 509. For temperate coniferous forest the best silvucultural felling system is
 - a. Clear felling system b. Coppice system c. Shelter wood system d. Selection system
- 510. Coppice crop is obtained from
 - a. seedling b. Root suckers c. Layering d. Old stubble
- 511. Murree hills forest area is part of
 - a. Temperate forest b. Subtropical forest c. Sub alpine forest d. None of these
- 512. Resin is collected from
 - a. Fir tree b. Deodar tree c. Kikar tree d. Chir tree

b. Forest with trees of uniform ages

- 513. Edaphic factors are related to
 - a. Soil b. Atmosphere c. Topography d. Humidity
- 514. Forest mensuration is part of
 - a. Silviculture b. Forest management
- 515. Which tree has allelopatic effect on farm crops
 - a. Shisham b. Kikar c. Sufeda d. Simal
- 516. Major function of Range Management is
 - a. Water conservation b. Soil Conservation c. Water and Soil Conservation d. None of these
- 517. Major products of range management is
 - a. Livestock b. Water c. Soil d. None of these
- 518. Minmum range area is found in which province
 - a. KPK b. **Punjb** C. Sindh d. Balochistan
- 519. The Major land use in KPK is
 - a. Forestry b. Cultivation c. Livestock production d. None of these
- 520. Maximum Range area is found in which Province
 - a. Punjab b Sindh c. KPK d. Balochistan
- 521. The major land use of Punjab is
 - a. Cultivation b. Range management c. Forestry d. None of these
- 522. The major cause of soil erosion in Thal rage area is
 - a. Water b. Wind c. Wind and Water d. None of these
- 523. Soil of range lands in Pakistan are generally
 - a. Light textured b. Fine textured c. Medium textured d. None of these
- 524. Range area of Pakistan are variable due to
 - a. Climate b. Soil c. Vegetation d. All these factors
- 525. Major part of range area in Pakistan lies in the following climatic zone
 - a. Humid b. Sub humid c. Arid and semi arid d. All of these
- 526. Climate of most of the range areas of Pakistan ecologically is
 - a. Dry temperate b. Tropical c. Sub tropical .d. Wet temperate
- 527. Vegetation of arid range area of Pakistan is dominated by
 - a. Grasses b. Shrubs c. herbs d. trees
- 528. With respect to soil, climate and vegetation, the range area of Pakistan are
 - a. Uniform b. Variable c. Highly variable d. Very Similar
- 529. Over grazing means grazing
 - a. 25% b. 50% c. > 50% d. None of these

- 530. Vegetation of range areas in southern Pakistan is generally
 - a. Dense b. Very dense c. Sparse d. None of these
- 531. The vegetation of desert range land is usually
 - a. Dense b. Open scrub c. Timber tree d. None of these
- 532. Decline in forage yield has naturally resulted in decrease in
 - a. a. Timber production b. Livestock production
 - b. c. Timber and Livestock production d. None of these
- 533. Wildlife habitat extends to only
 - a. Forests b. Range lands c. Forest and Range land d. None of these
 - The carrying capacity of excellent range area is
 - a. 1-5 h/AU/years b. 20-40 h/AU/years c. 40-50 h/AU/years d. ? 40h/AU/years
- 535. Regeneration means

534.

- a. Establishment of new forest crop only through natural way
- b. Establishment of new forest crop only through artificial way
- c. Establishment of new forest crop only through natural & artificial way
- d. None of these
- 536. Wood of which trees is considered the best for sports goods ?
 - a. Kikar b. Pine c. Toot d. None of these
- 537. Mangrove forests are located at the elevation of
 - a. 3000 b. 5000 c. 10000 d. None of these
- 538. Pure forest have
 - a. More than 20% trees belong to one species
 - b. More than 40% trees belong to one species
 - c. More than 60% trees belong to one species

d. More than 90% trees belong to one species

- 539. What is the major cause of diminishing wildlife number?
 - a. Felling of trees b. Cannibalism c. Habitat destruction d. Paucity of drinking water
- 540. Trench berm nurseries are also called as

a. Bed nurseries	b. Polythene nurseries	c. Raised bed	d. Dry nursery
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- 541. Cambium is surrounded by phloem from outside which consists of
 - **a.** Sieve tubes b. Companion cell v. Vessel cell **d. a & b**

542. Most suitable tree for match stick, packing and shuttering is

a. **Poplar b.** Deodar c. Kikar d. Neem

543. Nitrogen fixing bacteria fix atmospheric nitrogen for trees and in exchange receive

a. Carbohydrate	es b. Nitrogen	c. Calcium	d. Phosphorus						
544. Weeding is done at									
a. Pole stage	b. Seedling stage	c. Mature stage d. Sapling stage							
545. Which part of Arjun t	ree is used as heart tonic								
a. Seeds	b. Roots	c. Bark	d. Leaves						
546. Deforestation is cause	ed due to								
a. Grazing	b. Timber	c. Cultivation	d. All of these						
547. Most fertile layer of s	oil is								
a. Top layer	b. Organic layer	c. Middle soil layer	d. All of these						
548. Percent of the world water is bound chemically in the minerals i.e									
a. 5.24%	b. 98%	c. 1.02%	d. 94.75%						
549. <i>Rhizophora</i> is an important species offorests									
a. Temperate	b. Tropical	c. Sub-tropical	d. Alpine						
550. Escape of liquid water molecule from water bodies and wet surfaces is called									
a. Transpiration	b. Evaporation	c. Interception	d. Evapotranspiration						
551. Lateral movement of water on soil surface under the force of gravity is called									
a. Percolation	b. Runoff	c. Seepage	d. Infiltration						
552. A small unstable seas	onal streamlet which can	be ploughed up easily is	5						
a. Gully	b. Rill	c. Contour	d. Passel						
553. Xylem wood in broad	l leaf trees is largely mad	e up of							
a. Vessels	b. Ray cells	c. Fibers	d. Trachieds						
554. The study of response									
	b. Forest Auto-ecology								
555. Christian's Hypsomet			-						
a. Chemical	b. Biological	c. Trigonometric	d. Geometric						
556. Production of toxic ch	•								
a. Physiological	-	b. Evolution							
b. Behavior adap		d. Adaptation							
557. The perennial woody		-							
a. Herb	b. Shrub	c. Bush	d. Tree						
558. The dry, temperate fo									
a. 3350-3800 m	b. 1373-3050 r								
559. A unit of a forest, per	-	-							
a. Circle	b. Beat	c. Compartment	d. Working Plan						

560. The process of folding of leaves of Siris at night to reduce transpiration is called 561. Morphology Adapt. b. Physiological Adapt c. Behavior Adapt d. Evolution 562. The instrument which measures the wind speed is called **d.** None of these a. Hygrometer b. Lysimeter c. Anemometer 563. The objectives of Planned grazing system are b. Uniform Utilization c. Animal Production d. All of them a. Seed Production 564. A tunnel, open channel at the top of an embankment constructed to allow safe release of surplus water from the reservoir is called c. Dyke d. Check dam a. Spillway **b.** Spur 565. The surface drainage channel that is made by the downhill movement of water is called a. Watershed b. Stream c. River **d.** Gully 566. Subterranean injection of CO_2 in deep oil/gas reserves or Deep Ocean is the carbon sequestration through ____process a. Physical **b.** Chemical c. Biological d. Biochemical 567. Cage like baskets constructed of non-corrosive wire and filled with rock are known as a. Dam b. Karez c. Barrage d. Gabbions 568. The most abundant and naturally present green house gas in the atmosphere is: a. CO_2 b. NO_2 c. Water vapors **d.** CH₄ 569. Among research manuscript authors, who communicates with journal's editor? **a.** Primary author b. Last author c. Corresponding author d. Co-author 570. A wall constructed to change the direction of water flow a. Breast wall b. Retaining wall d. Diversion wall c. Barrage 571. The most important human activity, leading to the extinction of wildlife, is a. Pollution of wildlife b. Hunting for valuable wildlife products c. Introduction of alien species d. Alternation and destruction of natural habitats. 572. When is the World Wildlife week? a. First week of September b. Last week of September c. First week of October **d.** Last week of October 573. Higher Education Commission (HEC) of Pakistan has placed the impact factor journals in _category. a. **W** b. X c. Y \mathbf{d}, \mathbf{Z} 574. Which of the following is a frost tender tree species? a. Kikar **b.** Shisham c. Bargad d. Red River Gum 575. Planting of new forests on lands that historically have not contained forests is called as.

a. Deforestation b. Reforestation c. Forest land d. Afforestation 576. Silvo-pastoral agro-forestry system is the combination of **a.** Trees and crops b. Trees and animals c. Only trees d. Trees, crops and animals 577. Wood used for fuel should have b. High calorific value c. Timber value d. Moderate calorific value a. Low calorific value 578. Bamboos with dense clumps are called as b. Monopodial c. Dwarf d. Large a. Sympodial 579. Which tree species has the ability to fix atmospheric nitrogen? a. Dalbergia sissoo **b.** *Eucalyptus camaldulensis* c. Mangifera indica d. Populous deltoides 580. A document that regulates wood production, silviculture and tending activities in a forest for a specific period of time is called as a. Working plan **b.** Management plan c. Forest act d. Forest policy 581. Age of tree when its harvest will generate the maximum revenue or economic yield a. Rotation **b.** Increment c. Growth d. Development 582. The amount of new wood put on by a tree or a stand in a year is called as Wood volume b. Per year increase c. Increment d. Timber increase a. 583. Which is not a greenhouse gas a. Carbon Dioxide b. Methane c. Water Vapor d. Oxygen 584. The instrument used for measuring air temperature is called a. Psychrometer b. Pyrheliometer c. Actinometer d. Tensiometer 585. What is the animal symbol of World Wildlife Fund? a. Red Panda b. Giant Panda c. Tiger d. Kangaroo 586. The man, predators, scavengers cum decomposers are known as a. Primary Producer b. Secondary Producer c. Secondary Consumer d. Final Consumer 587. The driving force responsible for functioning and growth of the ecosystem is a. Chemical Energy b. Potential Energy c. Kinetic Energy d. Solar Energy 588. ______% people of Pakistan suffer from protein deficiency **a.** 62 b. 60.5 c. 66 **d.** 65 589. Ecosystem has two components: a. Plants and animals Weeds and trees b. c. Biotic and abiotic d. Frogs and men 590. An ecosystem may be defined as:

a. A localized association of several plants and animals

b. Different communities of plants, animals and microbes, together with their physicochemical environments c. Different communities of plants and microbes plus their physico-chemical environments d. None of the above 591. In natural ecosystem, decomposers include: Only bacteria and fungi b. Only microscopic animals a. The above two types of organisms plus mactoseopic animals c. d. Only the above two types of organisms 592. Competition for water, minerals, light and space is most severe between two: a. Closely related species occupying the same niche Closely related species b. occupying different niche Unrelated species occupying the same niche d. All above c. 593. Ecosystem is: A. Both open and closed unit depending upon the biomass present B. Closed unit C. **Open unit** D. Both open and closed unit depending upon community type 594. A habitat of long severe winters and growing season limited to a few months of summer constitutes: A. Savana ecosystem B. Taiga ecosystem C. Tundra ecosystem D. None of the above 595. An ecosystem is: A. A community of organisms interacting with one another B. The abiotic component of an area C. The part of the earth and its atmosphere where living organisms exist D. Α community of organisms together with the environment in which they live 596. Pond is an example of: Artificial ecosystem B. Forest ecosystem A. C. Natural ecosystem D. Grassland ecosystem 597. The term biosphere is used for the zone of earth where life exists: A. On the lithosphere surface B. In the hydrosphere С. In the lithosphere, hydrosphere and atmosphere D. In the lithosphere and hydrosphere 598. In an aquatic environment, microscopic animals and plants are collectively known: Herbivores A. Commensals B.

C. Fauna and flora **D. Planktons**

599. Ecosystem may be defined as:

A. Group of plants, which act as the energy suppliers Β. Group of organisms which form population C. Functional unit for ecological studies D. None of these 600. Prairies and steppes are parts of the natural regions called: A. **Temperate grasslands** B. Tropical grasslands C. Prairie grasslands D. Steppes grasslands 601. The incorporation of minerals by microbes is called: с Α. Mineralization B. Humification C. Nutrient immobilization D. Microbe immobilization 602. The significance of ecosystem lies in: A. Flow of energy B. Cycling of matters **C**. None of the above **Both** (a) & (b) D. 603. A food chain consists of: A. Producers and primary consumers B. Producer, herbivores and carnivores C. Produers, carnivores and decomposers **D.** Producers, consumers and decomposers 604. A food chain starts with: A. Nitrogen fixing organisms В. **Photosynthesizing organisms** C. Respiration D. Decomposers 605. If CO₂ is withdrawn from the biosphere, which organism would first experience negative effect? A. Primary consumers B. Producers C. Secondary consumers D. Tertiary consumers 606. Man is a: Producer B. A. Consumer С. Herbivore D. None of these 607. The two major functional components of an ecosystem are: A. Energy flow and food chain B. Mineral recycling and energy flow C. Food chain and decomposers D. Energy flow and decomposers 608. The driving force of the ecosystem is: **Biomass** A. Carbohydrates in plants B. C. Solar energy D. Producers 609. Which is a primary consumer? B. Saprophyte A. Scavenger C. Carnivore D. Herbivore

610. The transfer of energy from organism to organism is a natural community establishes:

- A. Food chains B. Biological control
- C. Natural barriers D. All the above
- 611. Which of the following is non-renewable source of energy:
 - A. Mineral B. Water
 - C. Forest D. Solar energy

612. The primary productivity is minimum in the following ecosystem:

- A. Tropical rainforest B. Temperate grassland
- C. Tropical deciduous forest **D. Desert shrub**
- 613. What is contributed from the outer space in an ecosystem?
 - A. All the atmospheric gases B. Only carbon, hydrogen and oxygen
 - **C. Energy only** D. All the above components
- 614. The number of producers and consumers in an ecosystem is mutually controlled by a:
 - A. Productivity control B. Food chain mechanism
 - C. Feed back mechanism D. Any of these

615. The bacteria which attack the dead animals are:

A. First link of the food chain and are known as primary producers

B. Second link of the food chain and are herbivouous

C. Third link of the food chain and are tertiary consumers

D. The end of the food chain and are decomposers

- 616. If all the green plants were to disappear from the earth:
 - A. Only the herbivores will die **B.** All the animal will die
 - C. Only the carnivores will die
 - D. It will not matter to anyone because chemosynthetic bacteria will produce food for all

617. In a food chain the largest population is that of:

A. Producers B. Decomposers

C. Tertiary consumers D. Primary consumers

- 618. The processes involving the transformation of carbon compounds on earth include:
 - A. Only the plants **B. Both biological and non-biological processes**
 - C. Only the living organisms D. Only the animals
- 619. The study of interaction between living organisms and environment in a specific area is the study of:
 - A. Phytobiology B. Phytogeography
 - C. Ecosystem D. Phytosociology
- 620. A complex of several species and communities in various stages of succession maintained under similar climatic conditions is known as:

	A.	Biome		B.	Enviro	nmental comple	x		
	C.	Biological spec	ctrum	D.	Biologi	ical clocks			
621. The ea	arth's atn	nosphere in whi	ch organ	isms live	e, is calle	ed:			
	A.	Ecosystem	В.	Ecoson	om				
	C.	Biosphere	D.	Biocoe	oenosis				
622. The pl	hytoplan	ktonic forms of	plants a	e:					
	A.	Insectivorous t	ype	B.	Heterot	trophs			
	C.	Chemotrophs		D.	Autotrophs				
623. Biome	e' is:								
	A.	A community of	of organi	sms inte	racting v	with one another	•		
	B.	B. That part of the earth a			atmospl	here, which inh	abits livi	ing organisms	
	C.	The flora on la	nd	D.	The flo	ra in an ocean			
624. A biot	ic comn	nunity comprises	s:						
	A. Plan	ts only B. Ani	mals onl	У	C. Plan	ts and animals	D.	Plants or animals	
625. The ri	ver mou	th ecosystem is	called:						
	A.	Estuarine	В.	Lotic		C. Lentic		D. None of these	
626. Every	ecosyste	em must have a	continuo	ous exter	nal sourc	ce of:			
	A. Ene	rgy B. Oxy	gen	C. Livi	ng orgar	nism D. Bac	teria		
627. The bi	iotic and	abiotic compon	ents of t	he ecosy	stem are	e connected thro	ugh:		
	A.	Standing qualit	ty	B.	Climati	ic regime			
	C.	Transducers		D.	Humif	ication and mir	neralizati	ion	
628. The te	rm hom	eostasis in an ec	osystem	refers to):				
	A.	A feed back me	echanism	n B.	A self-	regulatory mech	anism		
	C.	State of equili	brium	D.	Influen	ce of productior	1		
629. Which	n of the f	following serves	as sourc	e of carb	oon in pl	ants:			
	A.	CO2 of carbon	ic rocks		В.	Atmospheric	C O2		
	C.	Fossil fuel			D.	All of the abov	e		
630. Hydro	logical o	cycle is under th	e control	l of:					
	A. Gras	sslands	B. For	ests	C. Plan	ktons	D. Epip	hytes	
631. In des	ert grass	lands, which typ	pe of anim	mals are	relative	ly more abundar	nt?		
	A. Diu	rnal B. Arb	oreal		C. Aqu	atic	D. Foss	sorial	
632. Which	is the n	nost stable ecosy	ystem?						
	A. Des	ert B. Oce	an		C. Mountain D. Forest				
(22 G-1 -1	lpine for	est is:							

A. Coniferous trees limited to Abies (Fir) B. *Pinus wallichiana* (blue pine) stand singly C. In groups over an irregular, sometimes dense, lower storey of broadleaved trees D. All of the above 634. Sub-alpine forests found in: Kashmir B. Swat C. Chitral **D**. All of the above A. 635. Himalayan moist temperate forests depict: A. The chief character of this type is the extensive development of coniferous forests B. They also extend into the dry temperature regions C. To a small extent into the sub-alpine forests D. All of the above 636. The chief coniferous species are: A. Pinus wallichiana B. Cedrus deodara C. Piecea smithiana **D.** All of the above 637. Forest crops are known as: A. Nurse B. Main C. Subsidiary D. All of the above 638. The major kinds of rotation are: A. Physical **B.** Silvicultural C. Rotation of the greatest volume production **D.** All of the above 639. Logging means: A. It is an operation comprising felling of trees, limbing, bucking and transportation of the resulting product out of forest to the point of its end use B. It is process of watering the forest C. Both (a) & (b) D. None of these 640. What are the major components of the timber harvesting system? A. Logging planning B. Setting up of the crop to be felled C. Felling of trees and Transportation D. All of the above 641. Logging is effected by: A. Terrain B. Lean of trees C. Wind fallen trees **D.** All of the above 642. What is meant by seed orchard? A. For a long time it was held that the quality of future plants depends primarily upon the quality of the seed B. Starting from this statement more and more attention was paid to the production of seeds of good quality C. Both (a) & (b) D. None of these 643. What are methods of planting? A. Planting with naked roots B. Notch planting C. Planting with ball of earth and/or Planting with containers **D.** All of the above

644. What is the method of sowing?

A. Broadcasting B. Dibbling C. Strip or line sowing **D. All of the above** 645. Trees suitable for seed collection is/are: Plus trees: Trees of good genetic and phenotic constitution B. Seed stands: A. Small patches of trees in the forest which are better in characters C. It is best to collect seed from trees in such groups **D.** All of the above 646. Seed collection agencies means: A. Forest guard **B**. Labourers C. Research institute (trained persons and proper selection of trees **D.** All of the above 647. Collection from standing trees is: A. The falling seeds should be collected on a cloth sheet spread under the tree B. The person should climb the tree and shake branches or pick the needs himself. C. Seed should be collected only from healthy trees **D.** All of the above 648. Seed certificate means: A. Seed is transported from one place to another a certificate should be sent along with B. In this certificate the species date of collection, locality from where collected, characteristics of mother trees. Method of collection and storage C. Both (a) & (b) D. None of these 649. Seed orchard means: A. It is plantation or group of good quality trees, which are purposely raised for the production of good quality seed B. The spacing is kept very wide in order to enable to tree to freely spread its crown so that flowering and fruiting is healthy and early. C. Both (a) & (b) D. None of these 650. The important features of evaluation of site for plantation purposes are: A. Geomorphology B. Soil features C. Hydrologic features **D. All of the above** 651. Tree Morphology' means: A. A branch of biology, which deals with external appearance or structure of plants B. Every tree has parts: Crown, stem, and roots **C. Both (a) & (b)** D. None of these 652. Methods of breaking of 'Dormancy' are: A. Water treatment B. Mechanical C. Fire treatment **D.** All of the above 653. Forest protection means: A. It is necessary that care should be taken to protect the forest from all forms of damage B. If the efforts of the forester are not to be wasted

	C Many years	to accomplish		D. All of the above					
654 Vario	•••	ages caused by n	nan to forests are						
004. Vano		val of forest prod							
		es in the manager							
	C. Forest Fires	-	nent and exploit	D. All of the above					
655 Prote		urious climatic fa	octors is / are.	D. All of the above					
055. 11010	A. Temperatur		st damage	C. Rain damage	D. All of the above				
656 Earas	Ĩ		st damage	C. Kalli dallage	D. An of the above				
050. Foles	t nursery technic	-	foractation comp	aign a success a well-sto	ockad nursary raised on				
			-	argin a success a wen-sic	Jekeu hursery taiseu oli				
		nes is a pre-requi		a of most of the plantin	a compaigns in the				
	country	e biolic and edap.	ine factors, faitu	re of most of the plantin	g campaigns in the				
	•	lly be treed beel	to poor stock r	pisad in ill aquipped pur	sories by the staff which				
C. Can generally be traced back to poor stock raised in ill-equipped nurseries by the staff, which									
is often ignorant of the modern techniques of nursery raising and its management D. All of the above									
657. There are several methods to stimulate seed germination is:									
057. There	A. Mechanical		-	d and hot stratification					
	C. Acid scarifi			of the above					
658 The n	najor types of nu		D. All	of the above					
050. The h	A. Bed nursery		nursery C. Bot	$\mathbf{h}(\mathbf{a}) \otimes (\mathbf{h}) = \mathbf{D} \mathbf{N}_{\mathbf{a}}$	ne of these				
650 Bedr	ursery having in		nuisery C. Do	$\mathbf{H}(\mathbf{a}) \otimes (\mathbf{b}) \qquad \mathbf{D}. \mathbf{H}(\mathbf{b})$	ne of these				
057. D Cu I	A. Preparation	-	B. Sowing	C. Transplanting	D. All of the above				
660. Pot n	•	of the area	D. Sowing	C. Transplanting	D. An of the above				
000.1011	•	stratification can	he sown directl	y in polythene tubes					
				m diameter when filled	with soil				
	C. Both (a) &		long with 5-10 c	D. None of these	with son.				
661 Thom		(b) aspect of biodive	roita io.	D. None of these					
001. The h	A. Food	B. Drug	C. Industrial us	D Maintanan	ice of ecosystem				
667 Dhine		· ·		er exploitation for its:	ice of ecosystem				
002. K iiliid	A. Skin	B. Bones	C. Horn	D. Tusks					
662 Which									
005. winc		-	s more susceptio	le for extinction? C. Fishes	D. Dontilog				
661 A tor	A. Corals	B. Gastropods	in the wild is ide		D. Reptiles				
004. A tax		isk of extinction			D. None of these				
	A. Enuangered	B. Critically e	nuangered	C. Vulnerable	D. None of these				

665. Cryopreservation of tissue is done at the following temperature:

A.-196 B. 126 C. 206 D. None of these

666. Which of the following is not a reason of unnatural extinction of species?

A. Environmental pollution B. Soil erosion **C.** Afforestation D. Increased urbanization 667. On the basis of genetic diversity, the following are differentiated with in a species:

A. Ecads **B. Ecotypes** C. Populations D. Communities 668. The blue revolution refers to enhancement in the production of:

A. Fishes B. Crabs C. Birds D. Mammals 669. Bio-diversity means:

A. Some set of entities; biological diversity thus refers to variety within the living world

B. A contraction of biological diversity. C. The range of variation or differences among

D. All of the above

670. The types of bio-diversity are:

A. Genetic diversity B. Species diversity C. Ecosystem diversity **D. All of the above** 671. Maintenance of Biological Diversity is:

A. In-situ conservation B. Ex-situ conservation

C. Why conserve biological diversity **D. All of the above**

672. Biological diversity resources are:

A. Food B. Pharmaceuticals **C. Both (a) & (b)** D. None of these 673. The effect of pollution is first and most marked on:

A. **Natural flora of a place** B. Natural balance of our environment

C. Natural geo-chemical cycles D. All the above three

674. Biological treatment of water pollution is done with the help of:

A.LichensB.FungiC.PhytoplanktonsD. None of the above675. Foul smell in the water tanks, ponds etc, is due to:

A. Anaerobiosis B. Aerobiosis C. Biological magnification D. Psammophytes

676. Air pollution is not caused by:

A. Thermal power plant B. Diesel engine

C. Hydroelectric power station D. Pollen grain

677. If water pollution continues at its present rate, it will eventually:

A. Make oxygen molecules unavailable to aquatic life

B. Make nitrates unavailable to aquatic life

C. Prevent precipitation

D. Stop the water cycle

678.	The pa	art of earth in wh	nich life e	exists is l	known a	as:			
	A.	Lithosphere	B.	Biospł	nere				
	C.	Atmosphere	D.	Hydros	sphere				
679.	Mercu	ry pollution cau	ses a dise	ease:					
	A.	Methaelo bine	mia	B.	Minin	nata			
	C.	Foolish diseas	e D.	Hepati	tis				
680.	Heatir	ng of earth surfac	ce is due	to:					
	A.	Air pollution	В.	Water	pollutio	n			
	C.	Soil pollution	D.	All of	these				
681.	The co	omponent of a liv	ving cell	affected	by the p	pollutant	t SO2 is:	:	
	A.	Nucleus	В.	All cel	l memb	orane sys	stem		
	C.	Cell wall	D.	Plasmo	odesmat	а			
682.	Some	reliable indicato	rs of air	pollutant	ts (SO2	and nox	ious gas	es) are:	
	A.	Ferns and Cyc	as	B.		algae ar	-		vorts
	C.	Lichens and 1	nosses	D.	Neem'	tree and	l Eichho	ornia	
683.	Water	pollution is cau	sed by:						
	A.	Decay of bodi	es of aqu	atic orga	anisms	В.	Rain		
	C.	Growth of phy	-		D.	Indus	trial eff	luents	
684.	This a	cts as bioindicat	or of air	pollutior					
	A.	Alga B.	Licher		C.	Pinus	D.	Musta	urd
685.		mospheric pollu		used by					
	A.	O3 B.	CO		C.	CO2	D.	N2	
686.		ollution is maxim		•					
		Sewage and in						-	and pesticides
	C.	Automobile e					-	D.	Sewage and pesticides
687.		ge water can be p		•	U U	h the act	ion of:		
	А.	Aquatic plants		Penicil					
60.0	C.	Micro-organi		D.	Fishes				
688.		chemical smog i		to the po	ollution	of:			
	A.	Soil B.	Water						
690	C.	Noise D.	Air	1	• . •	1 ''	1		
689.		umber of species	-	-	-		bed as:		
	•	es diversity	b.	_	diversi	-			
	Beta d	liversity	d.	Geneti	c divers	ıty			

690. The Kyoto protocol was signed in a 1992 b 1996 с 2005 d 1997 691. World environment day is celebrated on 15th June 5th February 5th July b 5th June с d а 692. The gas that may cause acid rain in industrial area is SO₂ b Ν NH₃ d CO_2 а с 693. Sphere of water is called as Stratosphere b. Hydrosphere c Lithosphere d Ionosphere а 694. Atmospheric humidity is measured by Hygrometer b Hypsometer Hydrometer d Radiometer а с 695. Which of the following is a frost tender tree species Red River Gum c Kikar b Jaman d Mango а 696. Tapering in tree is due to a Low temperature b High temperature c High wind pressure d Low wind pressure Due to low atmospheric pressure the rate of transpiration will 697. a Increase a Decrease с Remain constant d Decrease rapidly 698. Planting of new forests on lands that historically have not contained forests is called as Reforestation b Forest inventory c Forest land d Afforestation а 699. Process by which trees and plants absorb carbon dioxide, release the oxygen, and store the carbon is called as Carbon capture b Carbon storage c Carbon sequestration d Oxygen releasing а 700. A prolonged period of excessive heat, often combined with excessive humidity is called as Heat stress b Heat waves Heat Ratio d Heat /humidity ratio а с 701. Perennially frozen ground where the temperature remains below 00C for several years is called as Permafrost Forest frost Permanent snow d Snow line b с а 702. Small particles in the atmosphere that can absorb or reflect sunlight depending on their composition. a Ferosols b Aerosols c Vapors d Liquor droplets 703. The gaseous envelope surrounding the Earth is called as Hydrosphere b Atmosphere c Gasosphere d Metrosphere а 704. Pseudo-stem occurs in а Banana b Shisham **Bamboos** с

	d	Sugarcane										
705.		Pakistan became	the m	ember of world	tourism	organization in						
	a	1947 ł	b	1973	c	1949	d	2004				
706.		In Pakistan the se	eparate	e ministry of tou	rism was	s created in						
	a	2004 t	b	1996	c	1955	d	1947				
707.		PTDC stands for										
	а	Pakistan tourisr	n deve	elopment centre	e							
	b	Pakistan telecom	munic	ation developme	ent centr	e						
	c	Pakistan tourism	Pakistan tourism development corporation									
	d	Pakistan tourism	Pakistan tourism display centre									
708.		Training of anim	als fo	r the elimination	of tende	encies to flee fro	om man i	s called as				
	a	Domestication		b Taming	c	Culling	d	Conservation				
709. E	Exist	ence of plants and	animal	ls in a common l	nabitat is	s called as						
	a	Forest commun	ity	b Wildlife	c	Fauna	d	Biotic community				
710.		Hypsometer is us	sed for	measuring of								
	a	Tree age b	b	Tree Diameter	c	Tree height	d	Relative humidity				
711.		Xylometer is use	dforr									
,		Aylonicul 15 use		neasuring the								
,	а	-	b	Height of tree	c	Girth of tree	d Volu	me of piece of wood				
		-	b	Height of tree				ime of piece of wood				
		Area of tree b	b od put	Height of tree	stand in		as	ime of piece of wood od volume				
	The a	Area of tree to the amount of new wood	b od put (Height of tree on by a tree or a b Increment	stand in c Timb	a year is called	as	-				
712. 7	The a	Area of tree to amount of new woo Per year increase	b od put (Height of tree on by a tree or a b Increment	stand in c Timb	a year is called	as	-				
712. 7	The a	Area of tree to amount of new wood Per year increase A tape used to m	b od put (Height of tree on by a tree or a b Increment	stand in c Timb	a year is called	as	-				
712. 7	The a a a	Area of tree to amount of new wood Per year increase A tape used to m Girth tape Measuring tape Inch tape	b od put (Height of tree on by a tree or a b Increment	stand in c Timb	a year is called	as	-				
712. T	The a a a b	Area of tree to mount of new woo Per year increase A tape used to m Girth tape Measuring tape Inch tape Volume tape	b od put e leasure	Height of tree on by a tree or a b Increment the diameter of	stand in c Timb	a year is called	as	-				
712. 7	The a a a b c	Area of tree to mount of new woo Per year increase A tape used to m Girth tape Measuring tape Inch tape Volume tape Strip system is a	b od put e leasure	Height of tree on by a tree or a b Increment the diameter of	stand in c Timb	a year is called	as	-				
712. T	The a a a b c	Area of tree to amount of new wood Per year increase A tape used to m Girth tape Measuring tape Inch tape Volume tape Strip system is a Coppice system	b od put e easure kind o	Height of tree on by a tree or a b Increment the diameter of	stand in c Timb	a year is called	as	-				
712. T	The a a a b c d	Area of tree the amount of new wood Per year increase A tape used to m Girth tape Measuring tape Inch tape Volume tape Strip system is a Coppice system Clear felling system	b od put easure kind o tem	Height of tree on by a tree or a b Increment the diameter of	stand in c Timb	a year is called	as	-				
712. T	The a a a b c d a b c c	Area of tree the amount of new wood Per year increase A tape used to m Girth tape Measuring tape Inch tape Volume tape Strip system is a Coppice system Clear felling system	b od put easure kind o tem stem	Height of tree on by a tree or a b Increment the diameter of	stand in c Timb	a year is called	as	-				
712. T 713. 714.	The a a b c d a b	Area of tree the amount of new wood Per year increase A tape used to m Girth tape Measuring tape Inch tape Volume tape Strip system is a Coppice system Clear felling system Shelter wood sy	b od put easure kind o tem stem	Height of tree on by a tree or a b Increment the diameter of	stand in c Timb a tree	a year is called	as	-				
712. T	The a a a b c d a b c c	Area of tree the mount of new wood Per year increase A tape used to m Girth tape Measuring tape Inch tape Volume tape Strip system is a Coppice system Clear felling syste Shelter wood sy Patch cut system Best suitable silv	b od put easure kind o tem stem	Height of tree on by a tree or a b Increment the diameter of of	stand in c Timb a tree	a year is called	as	-				
712. T 713. 714.	The a a b c d a b c d a a a a	Area of tree the amount of new wood Per year increase A tape used to m Girth tape Measuring tape Inch tape Volume tape Strip system is a Coppice system Clear felling syste Shelter wood sy Patch cut system Best suitable silv Coppice with sta	b od put of eeasure kind of tem stem vicultur ndard	Height of tree on by a tree or a b Increment the diameter of of	stand in c Timb a tree	a year is called	as	-				
712. T 713. 714.	The a a a b c d a b c d d	Area of tree the mount of new wood Per year increase A tape used to m Girth tape Measuring tape Inch tape Volume tape Strip system is a Coppice system Clear felling syste Shelter wood sy Patch cut system Best suitable silv	b od put (easure kind o tem stem vicultur ndard	Height of tree on by a tree or a b Increment the diameter of of f ral system for lig system	stand in c Timb a tree	a year is called	as	-				

Clear felling system d

716.	A document that regulates wood production, silviculture and tending activities in a forest for	a
speci	c period of time is called as	

Working plan b Management plan c Forest act d Forest policy а 717. A permanent, geographically recognisable unit of forest land forming the basis of prescription and permanent record of all forest operations is called as

а Depot

Compartment b

- Tropical forest с
- Irrigated forest plantation d
- 718. The age of tree when the its harvest will generate the maximum revenue or economic yield

а	Rotation	b	Increment	с	Growth	d	Development
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Dieback of -----is a very serious problem in the Indian subcontinent 719.

- Shisham а
- b Arjun
- Neem с
- Bargad d

720. Damping off disease is mainly caused by

- Fusarium solani а
- Ganoderma lucidum b
- Rhizoctonia solani с
- Fusarium oxysporum d
- 721. Long-horned beetle is major problem of ------tree
 - Shisham b Poplar с Kikar d Pipal а
- -----is a major disease of forest nurseries 722.
 - Wilt b Leaf spot Damping off d с Blight а

723. Problem of sap release from small cracks in the infected bark, giving the tree a bleeding shape is called

	а	Dieback	c	Decline	c	Wilt	d	Gummosis		
724.		First forest pol	icy of Pa	akistan was anno	ounced ir	1				
	а	1947	b	1949	c	1954	d	1955		
725.		Forest act which is enforce in Pakistan was formulated in								
	а	1927	b	1947	с	2004	d	1973		

A piece of land owned by the state but managed and used by all the villagers for the collective 726. purposes of the community is called as

	a	Shamlat b	Village forest c	Village pasture	d Wasteland
727.		Any area of land procl	aimed a forest under fore	est law is called as	S
	a	Endangered forest	b Protected forest	c Legal forest	d Urban forest
728.		Forest laws are			
	a	Special laws	b Constitutional laws	c National laws	s d General laws
729.		The art and science of	cultivating forest crop is	known as	
	a	Forest production	b Silviculture	c Pruning	d Pollarding
730.		Removal of upper bran	iches of a trees for prom	oting a dense head	d of foliage and branches
	a	Pollarding	b Cleaning	c Pricking	d Hardening
731.		Cleaning practice is do	one at		
	a	Pole stage	b Seedling stage	c Mature stage	d Sapling stage
732.		Weeding in forest crop	os is required at		
	a	Mature stage			
	b	Pole stage			
	c	Seedling stage			
	d	Sapling stage			
733.		Removal of tree branch	hes for improving the tin	nber quality is cal	led as
	a	Thinning			
	b	Pruning			
	c	Pollarding			
	d	Sapling			
734.		Roof of the forest is ca	lled as		
	a	Canopy			
	b	Crown			
	с	Bole			
	d	Foliage			
735.		Growth of trees from o	old stubbles near ground	surface is called a	as
	a	Lateral growth			
	b	Grafting			
	с	Coppice			
	d	Planting			
736.		Trench berm nurseries	are also called as		
	a	Bed nurseries			
	b	Polythene bag nurserie	S		

	c	Raised bed										
	d	Dry nurseries										
737.		Best planting r	method f	for shoo	t cutting	is						
	а	Mound plantin	ıg									
	b	Trench Plantin	ıg									
	c	Notch planting	5									
	d	Dibble plantin	ng									
738.		Forest having	long and	l severe	winter w	ith less	or mild	summer	is called	as		
	a	Tropical forest	ts		b	Sub-tropical forests						
	c	Urban forest			d	Temp	erate fo	rests				
739.		Most suitable t	tree for 1	match st	ick, pack	king and	shutteri	ng is				
	a	Deodar	b	Neem		c	Popla	r	d	Shisha	m	
740.		Nitrogen fixing bacteria fix atmospheric nitrogen for trees and in exchange receive										
	a	Carbohydrate	es	b	Nitrog	gen	c	Calciu	m	d	Phosphorous	
741.		Harvesting, co	Harvesting, conservation and conversion of standing trees is called as									
	а	Forest Protecti	on	b Fore	est Mana	gement	c For	est Utiliz	ation	d Fore	st Economics	
742.		Area where we	ood or o	ther woo	od produ	cts are s	tores is l	known as	8			
	a	Store house	b	Depot	ţ	с	Cold s	storage	d	Wood	house	
743.		Cheap and nor	mal qua	lity pape	er used fo	or printi	ng news	paper is				
	a	Light paper	b	News	print	с	Rag p	aper	d	Bible _J	paper	
744.		Which part of	arjun tre	e is use	d as hear	t tonic						
	а	Seeds	b	Roots		с	Bark		d	Leaves	8	
745.		A sheet made t	from fib	ers of w	ood is kr	nown as						
	а	Thin board	b	Fibre	board	с	Tissue	e board	d	Fire bo	bard	
746.		Export quality	furnitur	e is prep	ared in							
	а	Sargodha	b	Chini	ot	с	Lahor	e	d	Peshav	war	
747.		Excellent quali	ity garm	ents are	prepared	d from tl	ne fibers	of				
	a	Bamboo	b	Eucal	yptus	с	Acaci	a	d	Ficus		
748.		Best suitable tr	ree spec	ies for fu	irniture i	making i	n Pakist	an is				
	а	Bombax ceiba				b Euco	alyptus o	camaldul	lensis			
	c 1	Ficus bengalensi	is			d <i>Dall</i>	bergia si	ssoo				
749.		Animals which	h feed or	n twigs a	and brand	ches of t	rees are	called as	5			
	a	Wild										
	b	Browsing										

- c Grazing
- d Domestic

750. Animals which mostly feed on grasses and herbage are called as

a Grazing

- b Browsing
- c Tamed
- d Wild
- 751. Palatable grasses mean

a Fodder grasses

- b High yield grasses
- c Low yield grasses
- d Tall grasses
- 752. Tropical grasslands are called as
 - a Prairies
 - b Savannas
 - c Taiga
 - d Forest grassland

753. Moving grazing animals to various parts of a range in succeeding years or seasons to provide for seed production, plant vigor, and for seedling growth.

- a Continuous grazing
- b Range grazing

c Deferred Grazing

d Forest grazing

754. Any plant whose above ground part is not woody is called as

a Tr	ree	b	Shrub	c	Herb	d	Bamboo
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755. The systematic acquisition and analysis of resource information needed for planning and for management of rangeland is called as

a Range utilization

- b Range management
- c Range Improvement
- d Range Inventory

756. A major biotic unit consisting of plant and animal communities having similarities in form and environmental conditions is called as

a **Biome** b Biotic community c Flora and Fauna d Tropical area

- 757. Grasses belong to-----family
 - a Fabaceae b Malvaceae c **Poaceae** d Myrtaceae

758. The process of segregating organisms from a group according to desired or undesired characteristics

a Pulling b **culling** c Shifting d killing

759. Which erosion is common in relatively slopy areas with heavy rainfall

a Gully erosion b Sheet erosion c Wind erosion d Rill erosion

760. Soils which are transported by water are called as

- a Alluvial
- b Moist soils
- c Colluvial
- d Eroded soils

761. Flow of water that occurs when excess stormwater, meltwater, or other sources flows over the Earth's surface is called as

- a **Runoff**
- b Seepage
- c Percolation
- d Infiltration

762. An engineering structure used to divert water from a river into a canal or from a large canal into a smaller canal is called as

- a Dam
- b Barrage
- c Headwork
- d Spill way
- 763. Largest earth filled dam of the world is
 - a Mangla dam
 - b Terbela dam
 - c Three Gorges Dam
 - d Warsak dam
- 764. Watersheds that drain in to the ocean / river are known
 - a Closed drainage basins
 - b Terminal drainage basins
 - c Vertical basins
 - d Open drainage basins

765. A place where two streams meet are called as

> а Watershed b River с Confluence d Channel

766. The science that deals with the circulation, distribution, and properties of the waters of the earth is called as

Hydrology а

- Watershed b
- Hydrological cycle с
- d Aquifer

767. The area that drains into a sanitary or combined sewer system is called as

- Sewershed a
- Wayershed b
- Headwork с
- Dam d
- 768. Strip system is a kind of
 - Coppice system a
 - Clear felling system b
 - Shelter wood system с
 - d Patch cut system
- 769. Best suitable silvicultural system for light demander species is
 - Coppice with standard system а
 - Selection system b
 - Shelter wood coppice system с
 - d **Clear felling system**
- 770. A permanent, geographically recognizable unit of forest land forming the basis of prescription and permanent record of all forest operations is called as

	a	Depot	b Compartment	c Tropical forest	d Irrigated forest plantation
771.		The age of tree when the its harvest will generate the maximum revenue or economic yield			
	a	Rotation	b Increment	c Growth	d Development
772.		Hypsometer is used for measuring of			
	a	Tree age			
	b	Tree height			
	c				
	d	Relative humid	ity		

773. Xylometer is used for measuring the

- a Area of tree
- b Height of tree
- c Girth of tree

d Volume of piece of wood

- 774. The amount of new wood put on by a tree or a stand in a year is called as Per year increase b Increment c Timber increase d Wood volume а 775. A tape used to measure the diameter of a tree Girth tape а Measuring tape b Inch tape С d Volume tape 776. 92. Taungya system was started in c Pakistan d Nepal a India b Burma 777. Agroforestry is a type of Tropical forestry b Urban forestry а Social forestry d с Temperate forestry 778. Alley cropping is also called as **Hedgerow intercropping** b Farm cropping a c Relay cropping d Patch cropping 779. Wood used for fuel wood should have a Low calorific value b High calorific and specific value Moderate calorific value с d Good timber value 780. Which tree species has the ability to fix nitrogen a Dalbergia sissoo Mangifera india b Eucalyptus camaldulensis С d Populous deltiodes 781. Best suitable tree for sandy regions is a Bombax ceiba b Tamarix aphylla
 - c Ficus religiosa
 - d Dalbergia sissoo

- 782. Silvopastoral agroforestry system is the combination of
 - a Crops and animals
 - b Only trees
 - c Trees and animals
 - d Trees, crops and animals
- 783. Best suitable tree species for sericulture is
 - a Morus alba
 - b Acacia nilotica
 - c Terminalia arjuna
 - d Azadirachta indica
- 784. The gas that may cause acid rain in industrial area is
 - a **SO2**
 - b NH3
 - c N2
 - d CO2
- 785. Principle species of Subtropical pine forests is-----
 - a Cedrus deodara
 - b Pinus wallichiana
 - c Abies pindrow
 - d Pinus roxburghii

786. Forest having very hot and humid summer with less or no winter is called as------

- a **Tropical**
- b Subtropical
- c Temperate
- d Arctic

787. Most of the irrigated forest plantations are located in the ------ Province.

- a KPK
- b Sindh
- c Punjab
- d Baluchistan
- 788. Most important climatic factor affecting tree growth is------.
 - a **Precipitation**
 - b Nutrients
 - c Altitude

- d Fire
- - a Precipitation, Latitude, Aspect
 - b Slope, Latitude, Altitude
 - c Altitude, Humidity, Insects
 - d Light, Temperature, Fire

790. Soil nutrients, texture and structure are related to ------factors.

- a **Edaphic**
- b Climatic
- c Biotic
- d Pyric

791. Offshoots arising from the base of the tree trunks are called as------.

- a Mother plant
- b Suckers
- c Coppice
- d Grafted plants

792. Stumps of shisham and simal are raised in-----nurseries for transplanting in the field.

- a Potted
- b Trench-berm
- c Polythene bag
- d Dry

793. Most suitable species for the site having pH < 8.5 and with EC >4 is -----.

- a Bombax ceiba
- b Eucalyptus camaldulensis
- c Morus alba
- d Acacia nilotica

794. ------planting is the most commonly used tree planting method for waterlogged soils.

- a Berm
- b Trench
- c Mound
- d Dibble

795. To raise forest nursery seeds should be collected from------

a Plus tree

- b Over aged tree
- c Forked tree
- d Whip tree

796.

Best fast growing species recommended for agroforestry is------

- a Bombax ceiba
- b Pinus roxburghii
- c Ficus bengalensis
- d Jacaranda mimosifolia
- - a Cedrus deodara
 - b Pinus roxburghii
 - c Picea smithiana
 - d Jacaranda mimosifolia

798. In gymnosperms cones are collected off the trees when------

- a Open
- b Immature
- c Still closed
- d Fallen

799. Tree seeds can be stored for several years in -----.

- a Open area
- b Polythene bags
- c Jute bags
- d Glass jars

800. ------is the fibrous material that forms the main plant parts including, stem, limbs,

-----is the best tree species used in plywood industry.

branches, twigs etc..

- a Timber
- b Wood
- c Tissues
- d Chlorophyll

801.

a Acacia nilotica

- b Zizyphus mauritiana
- c Bombax ceiba
- d Eucalyptus camaldulensis

- 802. The area which drains surplus water into stream or river is called as------.
 - a Command area
 - b Basin
 - c Irrigated area
 - d Watershed
- 803. Volume of the water at the bottom of reservoir that can not be drained or used is called
 - a Dead capacity
 - b Live capacity
 - c Delta of water
 - d Gravitational water
- 804. The biggest earth-filled dam of Pakistan is-----.
 - a Mangla
 - b Diamer Basha
 - c Terbela
 - d Khanpur
- 805. The principle watershed management organization existing in Pakistan is -----
 - a WAPDA
 - b WALDA
 - c MKDA
 - d Provincial forest departments
- 806. A concrete structure across a river with the arrangements for raising the level and regulating the flow of water is called------.
 - a Dam
 - b Barrage
 - c Headwork
 - d Spill way

807. A vast area supported by natural vegetation which is only suitable for grazing and browsing by the livestock is called as-----.

- a Forest area
- b Range
- c Command area
- d Watershed area

808. Maximum number of animal units that can graze on an area of one hectare for the period of one

year is called -----of that area.

- a Carrying capacity
- b Range trend
- c Range analysis
- d Grazing system
- 809. A cow weighing about 450 kg and eating 9kg air dried forage is termed as -----
 - a Range unit
 - b Animal unit
 - c BTU
 - d Grazing unit

810. The major pests of irrigated forest plantations include -----,----etc.

- a Vulture, Rabbits, Wild boar
- b Wild boar, Porcupine, Rats
- c Hog deer, Porcupine, Vulture
- d Sheep, Goat, Cow
- 811. *Melanophila picta* is the common example of-----
 - a Poplar bark borer
 - b Poplar sap wood borer
 - c Poplar stem borer
 - d Shisham bark borer
- 812. The possible causal organism responsible for the dieback of shisham in sub-continent is-----
 - a Bacteria
 - b Nematodes
 - c Virus
 - d Fungi
- 813. Damping off disease in nurseries is caused by-----

a Phytophthora

- b Botryodiplodia
- c Colletotrichum
- d Ganoderma lucidum
- 814. Which one is primary consumer?

a Scavenger

b Saprophytes

- c Carnivores
- d Herbivores
- 815. Which one is an endangered tree species?
 - a. Shisham
 - b. Kikar
 - c. Jand
 - d. Beri
- 816. Tip of ecological pyramid is occupied by?
 - a. Herbivores

b. Carnivores

- c. Producers
- d. None of These
- 817. Ecosystem creates?
 - a .Food Chain
 - b. Food Web

c. Both A&B

- d. None of These
- 818. All living organisms on the earth interacting with atmosphere constitute

a. Biosphere

- b. Community
- c. Biome
- d. Association
- 819. The primary consumers are described as

a. Herbivores

- b. Converters
- c. Transducers
- d. All of These
- 820. Which is the most stable ecosystem
 - a. Desert
 - b. Ocean
 - c. Mountain

d. Forest

821. The part of earth in which life exists is called as

a. Lithosphere

b. Biosphere

- c. Atmosphere
- d. Hydrosphere

822. The flora and fauna in lakes and ponds represents

- a. Lentic Biota
- b. Lotic Biota
- c. Abiotic
- d. None of These
- 823.

The source of energy in an ecosystem is

a. Sun

- b. ATP
- c. Sugar Made By Plant
- d. Green Plants
- 824.

A food chain has following trophic levels

- a. 3 or 4
- b. 3
- c. 2
- d.1
- 825. The typical successions in forest are
 - a. Riverine
 - b. Estuarine
 - c. Coniferous
 - d. All of These
- 826. The major types of water erosion are
 - a. gully
 - b. Sheet
 - c. Rill

d. All of These

- 827. Temperate forests are found in
 - a. Kashhmir
 - b. Dir
 - c.Swat
 - d. All of These

- 828. Sources of organic matter are
 - a. Primary
 - b. Secondary
 - c. Both
 - d. None of These

829. The major effects of soil organic matter are

a. Soil Depth

- b. Climatic Situation
- c. Both A & B
- d. None of These
- 830. The tharparkar desert is situated in
 - a. Tharparkar
 - b. Sanghar
 - c.Mirpur Khas

d. All of These

- 831. Tharparkar desert range covers million ha.
 - a. 2.65
 - b. 2.70
 - c. 2.75
 - d. 2.80
- 832. Kohistan ranges are situated in
 - a. Karachi
 - b. Thatta
 - c. Laseba

d. All of These

- 833. Kohistan ranges covers about Million ha
 - a. 2.3
 - b. 2.4
 - c. 2.5
 - d. 2.6
- 834. Suleman mountain ranges covers
 - a. 1.5 million ha
 - b. 2 million ha
 - c. 2.5 million ha

- d. none of these
- 835. Reseeding is not likely to be successful on areas receiving rainfall less than

a. 300 mm

- b. 400 mm
- c. 500 mm
- d. 600 mm
- 836. In the thal area, planting tuft consists of
 - a. Cenchrus cliaris
 - b. Lasiurus sindicus

c. Both A & B

- d. None of These
- 837. The range lands of Pakistan are located in
 - a. Arid Areas
 - b. Semiarid Areas
 - c. Both A & B
 - d. none of These
- 838.

Longitudinal sand dunes moves slowly at the rate of per annum

a. 5 m

b. 10 m

- c. 20 m
- d .30 m
- 839. Cholistan desert is located near
 - a. Multan

b. Bahawalpur

- c Sahiwal
- d. Rawalpindi
- 840. -----is a nitrogen fixing tree species

a. Vachellia nilotica

- b. Ficus infectoria
- c. Ficus bengalensis
- d. All of these
- 841. Mangla dam is built on river

a. Jhelum

b. Chenab

c. Indus

d. Ravi

- a. Jhelum
- b. Chenab
- c. Indus
- d. Ravi
- 843. Main source of energy in Pakistan is

a. hydro- electricity

- b. Atomic energy
- c. Coal energy
- d. None of these
- 844. PhD Forestry was first introduced in
 - a. Pakistan Forest institute
 - b. Forest Schools

c. University of Agriculture Faisalabad

- d. None of these
- 845. Range reseeding is
 - a. Natural reseeding
 - b. Artificial reseeding

c. Both A & B

- d. None of these
- 846. Stock water development is
 - a. Tobas
 - b. Karez
 - c. Small dams
 - d. all of these
- 847. Grazing system in northern mountains are
 - a. Nomadic grazing
 - b. semi nomadic grazing
 - s. Local grazing

d. All of these

848. About Percent of the country is arid to semiarid

a. 50

b.60

c. 70

- d. None of these
- 849. Crown consists of
 - a. Leaves
 - b. Timber
 - c. Roots
 - d. All of above
- 850. Central darker colour portion of stem is called as
 - a. Phloem
 - b. Living xylem

c. Heart wood

- d. None of these
- 851. Second stage of tree development is
 - A. Seedling

B. Sapling

- C. Pole
- D. Tree stages
- 852. Stratification occurs in
 - a. Desert

b. Tropical forest

- c. Deciduous forest
- d. Tundra
- 853. Most common method of breaking seed dormancy is
 - a. Weathering
 - b. Mechanical
 - c. Fire Treatment

d. Water Treatment

- 854. Bonsai is well known over centuries from....
 - a. Japan & Malaysia
 - b. Japan & China
 - c. China & Malaysia
 - d. None of These
- 855. The first Christmas tree was decorated at Windser Castle by Prince Albert in

- a. 1840
- **b. 1842**
- c. 1843
- d.1844

856. Dasht-i-Lut and Desht-i- Kafir deserts are found in

- a. Afghanistan
- b. Turkey

c. Iran

- d. None of these
- 857. The high cold Gobi desert in found in

a. China and Magnolia

- b. China and Pakistan
- c. China and India
- d. None of these
- 858. Rajasthan desert is located in

a. Pakistan and India

- b. Pakistan and China
- c. Pakistan and Afghanistan
- d. None of These
- 859. The desert areas in Indo-Pak Subcontinent covers about
 - a. 1.8 million square km

b. 1.7 billion square km

- c. 1.9 million square km
- d. None of these
- 860. Which of the following is smallest unit
 - a. Biosphere
 - b. Ecosphere

c. Ecosystem

- d. Biome
- 861. The nature of soil carried by river is
 - a. Sandy
 - b. Clayey
 - c. Laterite
 - d. Alluvial

- 862. Plant damages occur due to
 - a. Biotic factors
 - b. Abiotic factors

c. A & B

d. None of these

863. Changa Manga forest area is located in which district of Punjab?

a. Kasur

- b. Lahore
- c. Okara
- d. Sahiwal
- 864. Tending operations are
 - a. Weeding, cleaning
 - b. Thinning, pruning
 - c. Both A & B
 - d. None of these
- 865. Cultural operations are
 - a. Drainage
 - b. Irrigation

c. Burning

- d. None of these
- 866. Thinning methods are
 - a. Mechanical
 - b. Selective
 - c. Schedule / statistical

d. All of above

- 867. Cultural practice are
 - a. Cultivations
 - b. Weeding
 - c. Sowing

d. All of the above

868.

Wood of chir pine and eucalpts is useful for

a. Pulp

- b. Paper
- c. Both A & B

- d. None of these
- 869. The important roles played by the forests are
 - a. Productive
 - b. Protective

c. Both A & B

- d. None of these
- 870. The role does not require much familiarization

a. Productive

- b. Protective
- c. Both A & B
- d. None of these
- 871. Which of the following means synecology?
 - a. Study of single species

b. Study of different species

- c. Both A & B
- d. None of these
- 872. Edaphic factor is due to
 - a. Man
 - b. Temperature
 - c. Soil
 - d. Herbivores
- 873. The plants growing on saline soils are called
 - a. Pheritophytes
 - b. Xerophytes

c. Halophytes

- d. Hydrophytes
- 874. Succulents are likely to be found in
 - a. Tropical rain forest
 - b. Deciduous forest

c. Deserts

- d. Tundras
- 875. Area where two communities overlap each other
 - a. Niche
 - b. Ecotype

c. Edge line

d. Ecotone

- 876. Biotic components consist of
 - a. Producer only
 - b. Consumers only
 - c. Decomposers only

d. All of the above

877. Soils transported by water are called

a. Alluvial

- b. Colluvial
- c. Residual
- d. Eolian
- 878. Plants growing on externally cold soil are called
 - a. Halophyte
 - b. Oxylophyte

c. Psychrophyte

- d. Psammophyte
- 879. The forests at an altitude of 10,000 ft are called as
 - a. Tropical
 - b. Sub-tropical

c. Temperate

- d. Alpine
- 880. The most interfering biotic components are
 - a. Birds
 - b. Herbivores
 - c. Hunters
 - d. Human beings
- 881. Xerophytes are generally found in

a. Deserts

- b. Water
- c. Hills
- d. Water bank