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Enter the Registered Number

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Time: 150 Minutes

PAPER-II (English Version) Series



Question Booklet Sl. No.

Max. Marks: 150

INSTRUCTIONS

- 1. The Question Paper contains 150 questions. Each question carries 1 mark. For each wrong answer 1/3rd mark will be deducted.
- 2. Please check the Question Paper and ensure that it contains all the questions. If you find any defect in the Question Paper or OMR Answer Sheet, please get it replaced immediately. The OMR Answer Sheet is in Duplicate. Do not separate the copies. The markings on the first page will automatically come on the second copy also. The first copy (Original) will be retained for evaluation. The second copy (Duplicate) can be taken home by the candidate.
- 3. Write your Registered Number on the top of the Question Paper. On the right hand corner of the first page, the Question Paper Series is printed as A or B or C or D. On the OMR Answer Sheet, Side-1 at the right top corner at Part C, the Question Paper Series are printed as ABCD. Darken the appropriate circle, as per your Question Paper Series with Blue/Black Ball point pen. Gel Pens/Pencils are not allowed.

Example to fill up the Question Paper Series on the OMR Answer Sheet

If your Question Paper Series is A, please fill as shown below:



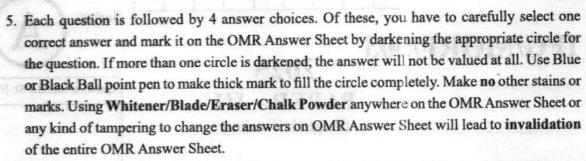


If you have not marked the Question Paper Series on the OMR Answer Sheet, Side-1 at Part C with Blue/Black Ball point pen, or marked in a way that it leads to discrepancy in determining the exact Question Paper Series, then your Answer Sheet will be invalidated without any further notice. No correspondence will be entertained in the matter.

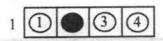
4. Please get the signature of the Invigilator affixed in the space provided at the top of the OMR Answer Sheet. An OMR Answer Sheet without the signature of the Invigilator will be invalidated.

04062025

P.T.O.



e.g.: If the answer for Question No. 1 is Answer choice (2), it should be marked as follows:



- Do not fold, tear, wrinkle, tie, staple, do any rough work or make any stray marks on the OMR Answer Sheet. Otherwise your OMR Answer Sheet will be invalidated.
- 7. Do not mark answer choices on the Question Paper. Violation of this will be viewed seriously.
- 8. Rough work may be done on the last page of the Question Paper only. It should not be done anywhere else.
- 9. Any type of Electronic Devices such as Calculators, Mathematical/Log Tables, Mobile Phones, Bluetooth instruments etc., should not be brought into the Examination Hall. If found in possession of such devices, it will be considered as cheating and strict action taken.
- As per G.O. Ms. No. 385, GA (Ser.A) Dept., dt: 18/10/2016, if any candidate attempts to use any means to cheat/copy etc., he/she is liable for prosecution (Police Case) and debarment.
- 11. Candidates should stay in the Examination Hall till expiry of Full Time i.e. 2½ Hours. No candidate shall be allowed to leave the Hall in the middle of the examination under any circumstances.
- 12. Before leaving the examination hall, the candidate should hand over the OMR Answer Sheet top sheet (Original) to the Invigilator and carry the bottom sheet (Duplicate) for his/her record. Carrying away Original OMR Answer Sheet will be a criminal offence.

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1. Which of the following plant groups belon	gs to Cryptogams?	
(1) Gymnosperms	(2) Angiosperms	
(3) Pteridophyta	(4) Dicotyledons	
2. What type of venation is found in Monoco	tyledons ?	
(1) Reticulate venation	(2) Parallel venation	
(3) Spiral venation	(4) No venation	
3. Which of the following is an example of a	Gymnosperm ?	
(1) Mango (2) Neem	(3) Pine	(4) Sandalwood
4. Which group of plants has seeds enclosed	E 37%	
(1) Angiosperms	(2) Thallophyta	
(3) Pteridophyta	(4) Gymnosperms	
5. Which of the following is an example of a	dicot plant?	
(1) Bamboo (2) Mango	(3) Grass	(4) Wheat
6. What is the function of a pollen tube?		
(1) Photosynthesis	(2) Water absorption	
(3) Facilitates fertilization	(4) None of the above	
7. The study of plant classification is known	as	
(1) Morphology (2) Anatomy	(3) Ecology	(4) Taxonomy
8. How do Pteridophytes reproduce?		HORSE FOR BUILDING
(1) Spores (2) Seeds	(3) Roots	(4) Rhizome
9. The main function of xylem in plants is to	transport	
(1) Food	(2) Water and Mineral	and the second
(3) Oxygen	(4) Hormones	- I'm dised and a



10.	10. Which term refers to the natural home of a plant?					
	(1) Habit	(2) Ecosystem	(3) Habitat	(4) Phyllotaxy		
11.	Which part of the pla	nt is positively geotrop	ic? The			
	(1) Root	(2) Leaves	(3) Stem	(4) Flower		
12.	Which type of root is n	nodified for food storage	and is thicker in the middl	e and tapered at both ends?		
	(1) Napiform root	(2) Tuberous root	(3) Fusiform root	(4) Conical root		
13.	Which root modifica	tion helps in respiration	in mangrove plants?	Jan Which or tag follow		
	(1) Prop roots	(2) Stilt roots	(3) Nodular roots	(4) Pneumatophores		
14.	Which of the following	ng is a characteristic of	prop roots ? 延伸@	er is guarg double.		
		r nodes of stem for sup	E SC4			
1	(2) Develop from he	orizontal branches and	grow downwards			
	(3) Grow vertically	upward for respiration				
	(4) Form nitrogen-f	ixing nodules				
15.	Which type of stem r	nodification is found in	onions ?			
	(1) Tuber	(2) Rhizome	(3) Bulb	(4) Corm		
16.	What is the function	of a Phylloclade stem n	nodification?			
	(1) Storing water an	d performing photosyn	thesis			
	(2) Supporting clim	bing plants				
	(3) Absorbing nutric	ents from the host		and the state of t		
	(4) Reproduction					
17.	What is Phyllotaxy?					
	-	hotosynthesis in leaves				
		f venation patterns				
1	(3) The process of l		921 92			
ı	(4) The mode of arr	angement of leaves on	a stem or branch			



352	4			
18.	Which type of lea	of has deep incisions reach	ing the midrib?	
	(1) Sessile leaf	10 11 17	(2) Pinnate leaf	
	(3) Compound l	eaf	(4) Simple leaf	
10	Which now of the	leaf contains stomata?	eme English	
17.	winch part of the	icai contains stomata :		
	(1) Midrib	(2) Lamina	(3) Petiole	(4) Stipules
20.	What is the funct	ion of stipules in some pla	nts?	
	(1) Water absorp	otion	(2) Protection of yo	oung leaves
	(3) Photosynthe	sis	(4) Seed dispersal	and garantee of
21	What is the term	for leaves that grow direct	ly from the stem withou	t a neticle ?
A. I.	What is the term	ioi icaves that grow direct	ly nom the stem withou	t a petiole:
	(1) Sessile	(2) Stipulate	(3) Petiolate	(4) Whorled
22.	What type of mar	rgin does a Hibiscus leaf h	ave?	
	(1) Lobbed	(2) Dentate	(3) Entire	(4) Serrate
23.	What is infloresco	ence?		
	N	ment of flowers on a floral	axis	
	(2) The process			
		ment of leaves on a stem		
	(4) The structure	e of the ovarv		
	Man Complete	ero virtualny evilancephi (AV)		
24.	Which type of inf	florescence is found in ban	Y. T. WINCOM	19 - 1/0
	(1) Corymb	(2) Cyathium	(3) Spadix	(4) Catkin
25		special type of inflorescen		
	AND THE PROPERTY OF THE PROPER			
	(1) Neem	(2) Peepal	(3) Coriander	(4) Sunflower
26.	The outermost wi	horl of a flower is called		
	(1) Calyx	(2) Androecium	(3) Gynoecium	(4) Corolla



416	£			
27.	Which of the following	ng is the male reproducti	ve part of a flower?	at bours half #1
	(1) Stigma	(2) Ovary	(3) Pistil	(4) Androecium
28.	Plasmodesmata in pla	ant cells are responsible f	or Williams	
	(1) Transport of ions	i Vi	(2) Protein synthesis	
	(3) Communication	between adjacent cells	(4) Photosynthesis	
20	Which organalla is ra	sponsible for modifying,	sorting and nackaging	proteins?
29.		sponsible for mountying,		notenis 1
	(1) Mitochondria	DAID Nearig	(2) Golgi apparatus	
	(3) Endoplasmic reti	culum 🗉 🗆 🖂	(4) Ribosomes	
30.	Which of the following	ng structures is involved	in protein synthesis?	
	(1) Ribosomes	(2) Mitochondria	(3) Lysosomes	(4) Peroxisomes
31.	Who first adopted the	system of binomial non	nenclature ?	St.
	(1) Darwin	(2) Lamarck	(3) Hooke	(4) Linnaeus
32.	Which plant leaves m	odified into pitchers to t	rap insects ?	er anna hair ai mal W. I.C.
	(1) Opuntia	(2) Nepenthes	(3) Aloe	(4) Pea
33.	The central part of the	e tree trunk, which is often	en soft or decayed, is cal	led
	(1) Cambium	(2) Pith	(3) Xylem	(4) Phloem
34.	Which part of the tree	trunk is responsible for	the formation of new wo	ood tissues ?
	(1) Pith	(2) Bark	(3) Cambium	(4) Xylem
35.	Which of the following	ng plant tissues does NO	T have living cells at ma	turity ?
	(1) Sclerenchyma	(2) Collenchyma	(3) Parenchyma	(4) Phloem
2-	ma:1	1000000000	160pe/- 1	medyl (I)
36.		ematic tissue is responsib		
г	(1) Apical meristem	—	(2) Intercalary meriste	em sakina sakara da
L	(3) Lateral meristem	facilia se	(4) Epidermis	



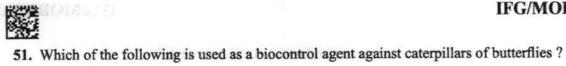
(1) Absorbing water			
(2) Storing food		basteni o't, da	
(3) Protecting the roo	ot,		
(4) Protecting the plu	umule during germina	tion else such a	日常日 NG 47日 日かな
38. W	hich plant hormone	is primarily responsib	le for fruit and seed develo	opment after fertilization?
(1) Cytokinin	(2) Gibberellin	(3) Auxin	(4) Ethylene
	hat is the term for t	he type of asexual rep	production where offsprin	g develop from unfertilized
(1) Parthenogenesis	A SEE BUILDING THE	(2) Apomixis	
(3) Polyembryony	_	(4) Somatic embryo	genesis
(2) To induce mutati	ons for trait development on the homozygosity in br	reeding lines	
(3	To produce plant	s with increased ploid	dy levels	
(4	1) To introduce fore	eign genes into plants		
41. W	hich of the following	ng is NOT a character	istic of asexual reproduct	ion in plants ?
(1) Rapid population	n increase	(2) Genetic variation	n in offspring
(3	3) Single parent inv	volvement	(4) Offspring are clo	nes of the parent
		breeding technique in s to create a hybrid?	volves the fusion of proto	plasts from two
() Gene editing	etitibs	aodin'iu staspagaano level	(4) Fernar the savu
(2	2) Polyploidization			
(3) Somatic hybridia			
(4	4) Marker-assisted	selection		
			7	(A)

37. What is the role of the coleoptile in monocot seeds?



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43.	-	lant tissue culture v plants can devel		mass of undifferentiated ce	lls from which
	(1)	Callus	(2) Embryoid	(3) Protoplast	(4) Explant
44.	Wh	ich of the followi	ng factors does NOT d	irectly affect the rate of tra	anspiration in plants?
	(1)	Wind speed	(2) Soil pH	(3) Temperature	(4) Humidity
45.	Wh	ich pigment is pri	marily responsible for	capturing light energy dur	ring photosynthesis?
	(1)	Carotene	(2) Xanthophyll	(3) Chlorophyll b	(4) Chlorophyll a
46.	Wh	ich enzyme is cru	cial for carbon fixation	during photosynthesis?	
	(1)	Ribulose-1, 5- b	sphosphate carboxylas	se/oxygenase (RuBisCO)	Collegendarities (1)
	(2)	Nitrate reductase	i mari maan sakingar		(3) Polyer torson
	(3)	Pyruvate kinase			
	(4)	ATP synthase			M. What is the purpose
47.	Whi	ich plant hormone	is known to induce seed	dormancy and help plants w	vithstand stress conditions
	(1)	Auxin	(2) Gibberellin	(3) Abscisic acid	(4) Ethylene
48.	Wh	ich plant growth r	egulator is commonly	used to induce rooting in]	plant cuttings ?
	(1)	Gibberellin	(2) Cytokinin	(3) Abscisic acid	(4) Auxin
49.	In th	he context of plan	t genetics, what is the	primary function of messe	enger RNA (mRNA) ?
	(1)	Catalyzes bioche	emical reactions		le consignification
1,000	(2)	Carries genetic i	nformation from DNA	to ribosomes	
3	(3)	Transports amine	acids to ribosomes		was malipageraffile
	(4)	Forms the struct	aral components of rib	osomes	(i) Gene action
50.		ich nutrient defici protic in plants?	ency causes young leav	ves to turn uniformly yello	wish-green or
	(1)	Nitrogen	(2) Sulfur	(3) Iron	(4) Magnesium



 (2) Streptococcus (3) Bacillus thuringiensis (4) Saccharomyces cerevisiae 52. Which fungal pathogen caused the brown spot disease that led to the Be (1) Helminthosporium oryzae (Bipolaris oryzae) (2) Alternaria solani (3) Phytophthora infestans (4) Puccinia graminis 53. What are regions called that are exceptionally rich in species diversity? 	E
(4) Saccharomyces cerevisiae 52. Which fungal pathogen caused the brown spot disease that led to the Be (1) Helminthosporium oryzae (Bipolaris oryzae) (2) Alternaria solani (3) Phytophthora infestans (4) Puccinia graminis	E
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 Helminthosporium oryzae (Bipolaris oryzae) Alternaria solani Phytophthora infestans Puccinia graminis 	E
 Helminthosporium oryzae (Bipolaris oryzae) Alternaria solani Phytophthora infestans Puccinia graminis 	E
(2) Alternaria solani (3) Phytophthora infestans	
(3) Phytophthora infestans (4) Puccinia graminis	
(4) Puccinia graminis	
" " galaxies " sequi ar disente d'escrit.	
53. What are regions called that are exceptionally rich in species diversity?	
53. What are regions called that are exceptionally rich in species diversity?	
(1) Biomes (2) Hotspots (3) Reserves	(4) Biospheres
54. Which is the largest animal found in India?	
	(A) Flowboart
(1) Tiger (2) Leopard (3) Rhino	(4) Elephant
55. The Lankamala Wildlife Sanctuary is home to which rare species?	
(1) Great Indian Bustard (2) Olive Ridley Turtle	
(3) Jerdon's Courser (4) Indian Peafowl	1
56. Name of the Biosphere Reserve in Andhra Pradesh	
(1) Marripakala Biosphere Reserve	
(2) Seshachalam Biosphere Reserve	
(3) Papikonda Biosphere Reserve	
(4) Kambalakonda Biosphere Reserve	
on what is an example of the state of the st	
(1) National Parks (2) Wildlife Sanctuaries	CONTRACT LOCAL II
(3) Zoological Parks (4) Biosphere Reserves	
9	



58.	Wh	ich of the follow	ing is a Ramsar wetland	d site in	Andhra Pradesh?	e Kiris		
	(1)	Kolleru Wildlife	e Sanctuary	(2)	Pulicat Wildlife S	Sanctua	ary	
-	(3)	Nelapattu Wild	life Sanctuary	(4)	None of the abov	re		
59.	Wh	ich one is consid	ered a 'keystone specie	es' in Inc	lian forests?	個人		
	(1)	Neem Tree	(2) Teak Tree	(3)	Mango Tree	(4)	Ficus Tree	
60.	Wh	ich National Park	x is home to the only A	siatic Li	on population ?			
	(1)	Jim Corbett Nat	tional Park	(2)	Ranathambore N	ational	Park	
	(3)	Khazaranga Na	tional Park	(4)	Gir National Park	((S) Phytosh	
61.	Wh	ich Indian State l	has the highest species	diversity	1?			
	(1)	Gujarat	(2) Kerala	(3)	Arunachal Prades	sh (4)	Rajasthan	
62.	Wh	ich organization	maintains the Red List	of threa	tened species ?			
	(1)	WWF	(2) IUCN	(3)	UNEP	(4)	CITES	.525
63.	Wh	o popularized the	e term "Biodiversity" ?		de talegree			
l	(1)	Edward Wilson	property markly the st	(2)	Charles Darwin		asolul Laff	
	(3)	Robert May		(4)	Alfred Wallace			
64.	Wh	ich group has the	highest species divers	ity amor	ng animals ?			
	(1)	Fishes	(2) Mammals	(3)	Birds	(4)	Insects	
65.	Wh	ich international	agreement was signed	to conse	rve biodiversity?	i mais		
1920	(1)	Kyoto Protocol		(2)	Paris Agreement			
	(3)	Convention on l	Biological Diversity	(4)	Rio + 20 Summit	proje		
66.	Whi	ich biome in Indi	a is characterized by hi	igh rainí	all, dense vegetat	ion and	l rich biodive	ersity?
	(1)	Deciduous Fore	st	(2)	Tropical Rainfore	est		
	(3)	Alpine Tundra		(4)	Thar Desert			
				10				(A)



ž.	
. Which Indian biome is best known	for its salt-tolerant trees and aquatic biodiversity?
(1) Deciduous Forests	(2) Grasslands
(3) Mangroves	(4) Alpine Meadows
3. Which of the following is NOT an a	biotic factor influencing biomes?
(1) Predator population	(2) Soil type
(3) Rainfall	(4) Temperature
Which of the following is the most	significant cause of biodiversity loss?
(1) Overgrazing	(2) Soil erosion
(3) Air pollution	(4) Habitat destruction and fragmentation
 Which of the following is an examp Introduction of an invasive spe 	CINA.
(2) Extinction of a pollinator leading	ng to the extinction of its plant species
(3) Over-harvesting of fish leading	to their population decline
(4) Loss of tigers due to hunting	
 Which legislation in India recognize resources? 	es the rights of forest-dwelling communities to land and
(1) Wildlife Protection Act, 1972	
(2) Forest Conservation Act, 1980	
(3) Scheduled Tribes and Other Tr Act, 2006	aditional Forest Dwellers (Recognition of Forest Rights
(4) Environmental Protection Act,	1986
2. The Chipko Movement was initiate	A SOCIETATION OF THE PROPERTY
(1) Promote mining in forest areas	
(2) Protest against large dam proje	ects mad non a sub-officiant of entirettly and a direct of
(2) D	
(3) Prevent deforestation and cons (4) Support timber extraction indu	serve forests

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	(1)	Increased biodiversity		
	(2)	Reduction in greenhouse gas emissions		
- [(3)	Submergence of forests and wildlife habit	ts	
	(4)	Improved groundwater recharge	more in a second participation	
74.	Wh	at percentage of India's surface water is ut	ized by the agricultural sector	or?
	(1)	0.75 (2) 0.89	(3) 0.65 (4)	0.5
75.	Wh	ich plateau is known as the mineral heartla		en in targit Att
	(1)	Deccan Plateau	(2) Malwa Plateau	
	(3)	Chota Nagpur Plateau	(4) Shillong Plateau	76. Which of Se-
76.	Wh	ich of the following is a direct consequence		
	(1)	Increased groundwater recharge	(2) Loss of habitat for wildl	ife (S)
	(3)	Enhanced soil fertility	(4) Expansion of agricultura	al lands
77.	min (1)	ich of the following strategies is essentia eral resources in India? Rapid depletion of high-grade ores Recycling and reuse of metals	for the sustainable manage	74. Wheth Ice-
L		Ignoring environmental regulations		J tennell (C)
		Increasing reliance on imported minerals		
78.	Carl	bon dioxide acceptor in C4 plants	Con the second conseq	
	(1)	Ribulose-1-5 diposhphate	(2) Phosphoenol pyravate	
	(3)	Oxaloactate	(4) None of the above	
79.	Whi	ich of the following is classified as a non-c	nventional source of energy	
N-	(1)	Coal	(2) Natural Gas	
	(3)	Solar Energy	(4) Petroleum	
		12		(A

73. What is a common environmental problem associated with the construction of large dams?



80.	What is a significant challe	enge hindering Indi	a's tra	nsition to net-zero	emis	sions?
	(1) Lack of renewable en	ergy resources	(2)	Heavy reliance on	coal	
	(3) Insufficient governme	nt policies	(4)	High cost of nucle	ar en	ergy
81.	As of 2024, which energy s	ource accounts for	the lar	gest share of India's	s elec	tricity generation?
	(1) Natural Gas (2)	Coal	(3)	Solar Power	(4)	Nuclear Energy
82.	Which form of land degrad	lation is most preva	lent i	回溯回 n India? 语数		
	(1) Soil erosion		(2)	Soil subsidence		
	(3) Landslides		(4)	Desertification		
83.	Which State in India has th	ne largest area affec	ted by	soil erosion?		
	(1) Rajasthan (2)	Madhya Pradesh	(3)	Maharashtra	(4)	Uttar Pradesh
84.	Which type of soil in India	is known for its self	f-plou	ghing characteristic	due t	to high clay content?
[(1) Black soil (2)	Red soil	(3)	Alluvial soil	(4)	Laterite soil
85.	What is the term for land le	eft uncultivated for	one o	r less than one agri	cultu	ral year ?
	(1) Waste land (2)	Fallow land	(3)	Barren land	(4)	Pasture land
86.	Which organization publis	hes the 'Desertifica	ition a	nd Land Degradati	on A	tlas of India'?
	(1) Ministry of Environm	ent, Forest and Clin	mate (Change		Barr
	(2) Indian Space Research	h Organisation (ISF	(0)			
	(3) National Remote Sens	sing Centre				
-	(4) Space Applications C	entre				provide the
87.	The art and science of cult	ivating forests crop	S			
	(1) Silviculture (2)	Horticulture	(3)	Apiculture	(4)	Agriculture
88.	What is the dominant fores	st type in Andhra Pr	radesh	? 普及		
	(1) Tropical and Deciduo	us Forests	(2)	Mangrove Forests		
•	(3) Littoral and Swamp		(4)	Semi-evergreen Fo	prests	Sous-et d
		11	2			(4)



89.	which type of forest is found in the Coringa	wilding Sanctuary :		
	(1) Evergreen Forest	(2) Tropical Dry Deciduous Forest		
	(3) Mangrove Forest	(4) Semi-evergreen Forests		
90.	Which of the following is an example of eda	phic factors?		
	(1) Rainfall	(2) Soil composition		
	(3) Temperature	(4) Altitude		
91.	Which of the following best describes carbo	n sequestration?		
	(1) Absorption and storage of carbon in for	ests established (E)		
=	(2) Burning of fossil fuels	All Which State we have been a leaved got all		
	(3) Chemical pollution of forests			
	(4) Release of carbon into the atmosphere			
92.	What is the main advantage of natural regen (1) High cost of maintenance	eration?		
	(2) Increased genetic diversity			
	(3) Requires continuous human intervention	n supposed to the same way (1)		
	(4) Reduced adaptability to local condition	s		
93.	Which silvicultural system relies entirely on natural regeneration?			
	(1) Clear-cutting system			
	(2) Shelter wood system			
	(3) Selective felling system			
	(4) Coppice system			
94.	What is the primary objective of tending ope	erations in forestry ?		
	(1) To promote the growth of selected trees			
	(2) To remove diseased trees			
	(3) To plant new tree species	sugnition band less temper 118		
	(4) To increase tree diversity			



- 95. What is the primary goal of thinning in forestry?
 - (1) To increase the number of trees per unit area
 - (2) To completely clear the forest for new plantations
 - (3) To allow trees to compete naturally without intervention
 - (4) To remove weaker trees and enhance the growth of superior ones
- 96. What is a distinctive feature of Red Sanders (Pterocarpus santalinus)?



- (1) It thrives in arid and rocky regions
- (2) It requires waterlogged conditions
- (3) It is mainly used for pulpwood production
- (4) It is an evergreen tree
- 97. Sandalwood (Santalum album) is classified as which type of plant in relation to its host dependency?



(1) Obligate parasite

(2) Partial root parasite

(3) Epiphyte

- (4) Free-living tree
- 98. Which soil type is most suitable for Tectona grandis growth?
 - (1) Saline and alkaline soils
- (2) Sandy desert soils
- (3) Lateritic and well-drained alluvial soils
- (4) Waterlogged clayey soils
- 99. What is the flowering cycle of Dendrocalamus strictus?



(1) Every 5-10 years

(2) Every 15-20 years

(3) Every 30-50 years

- (4) Every 60-100 years
- 100. Casuarina equisetifolia improves soil fertility through
 - (1) Nitrogen fixation in symbiosis with Frankia bacteria
 - (2) Mycorrhizal association with fungi
 - (3) Accumulating organic matter from fallen leaves
 - (4) Absorbing minerals from deep soil layers



101 Casuarina equisetifolia is common	ly used for which of the following purposes?
(1) Fruit production	(2) Windbreaks and coastal protection
(3) Timber production	(4) Ornamental gardening
02. Which planting technique is most s	suitable for waterlogged soils in India?
(1) Pit planting	(2) Mound planting
(3) Trench planting	(4) Dibbling
03. What is the ideal pH range for mos	
(1) 0.5 to 5.5	(2) 5.5 to 6.5
(3) 6.5 to 7.5	(4) 7.5 to 8.5
(3) To acclimate seedlings to exte	ernal environmental conditions
(1) To accelerate growth before tr(2) To reduce water content in tiss	
(4) To increase leaf production	E (E)(E)
05. In the context of root trainers, what cell ?	is the function of the open-ended design at the bottom of ea
(1) To allow excess water drainage	ge office strong to see the supply that supplying the supplying the second seed of the second
(2) To enable air pruning of roots	99. What is the Roserrey - Concerns on a
(3) To facilitate nutrient leaching	et an
(4) To provide aeration to the soil	(2) Every 30-50 cas
06. In grafting practices, what is the sig of the scion and rootstock?	mificance of aligning the vascular cambium layers
(1) To enhance photocymthesis	

(2) To ensure successful graft union

(3) To promote flower development

(4) To increase fruit size



107. What is a key advantage of using sunken nursery beds in dry and windy areas?



- (1) They increase water evaporation
- (2) They facilitate water retention and protect seedlings from wind
- (3) They elevate seedlings above ground level
- (4) They promote rapid water drainage
- 108. Which of the following soil types is considered ideal for nursery bed preparation?
 - (1) Clayey soil
 - (2) Red soil mixed with clay
 - (3) Loam or sandy loam soil
 - (4) Rocky soil
- 109. What is the primary purpose of furnigating nursery beds before sowing seeds?

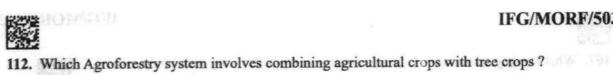


- (1) To increase soil fertility
- (2) To eliminate soil-borne pathogens and pests
- (3) To enhance seed germination rates
- (4) To adjust soil pH levels
- 110. In the context of nursery tending, what does the term 'pricking out' refer to?
 - (1) Removing weeds from nursery beds
 - (2) Transplanting seedlings from seedbeds to individual containers
 - (3) Pruning the roots of seedlings
 - (4) Applying fertilizers to young plants
- 111. What is the purpose of Shelterbelts in Extension Forestry?



- (1) To protect crops and soil from wind and erosion
- (2) To provide shade for livestock
- (3) To promote commercial timber production
- (4) To increase groundwater levels

(2) Agrosilvopastoral System



(1) Silvopastoral System

	(3) Agrisilvicultural System (4) Mixed Wood Lots	
112	What is the main purpose of Apiculture with Trees in Agroforestry?	
113.	What is the main purpose of Apiculture with Trees in Agroforestry?	
	(2) To increase honey production by planting nectar-rich trees	01
114.	(a) To plant a coo time provide contract	
	(4) To grow trees that act as windbreaks	
	What is a major reason why mixed crops are preferred over pure crops?	
	(1) They minimize pest attacks and soil deterioration	
	(2) They allow for quicker harvesting	
	(3) They are easier to plant	
	(4) They require less maintenance	
115.	Which government scheme promotes afforestation under Social Forestry?	
	(1) PM-KISAN (2) CAMPA	
	(3) Swachh Bharat Abhiyan (4) MGNREGA	(X)
116.	Which Indian program focuses on increasing forest cover through community participation	?
	(1) National Mission for a Green India	
	(2) National Afforestation Programme	
	(3) Joint Forest Management	
	(4) Social Forestry Scheme	
117.	In which agro-ecological zone of India is the practice of Jhum cultivation (shifting cultivation) predominantly observed?	tion)
	(1) Indo-Gangetic Plains (2) Western Ghats	
	(3) Eastern Himalayan Region (4) Deccan Plateau	
$\langle E_i \rangle^{\prime}$	18	(A)



Which agroforestry system in the crops, allowing farmers to grow c	Himalayan region integrates tree cultivation with a crops alongside young trees?
(1) Silvopastoral System	(2) Taungya System
(3) Alley Cropping	(4) Windbreaks
19. Allelopathy refers to	The name of the artificial of
(1) The symbiotic relationship b	etween plants
(2) The absorption of nutrients b	
(3) The process of pollination in	
(4) The effect of chemicals relea	sed by one plant on the growth of another
20. What is the principal aim of the N (1) Revenue generation from for	rests
(2) Ensuring environmental stab	ility and ecological balance
(3) Expansion of agricultural lan	ds Translation did three or one of the const
(4) Increasing timber production	HR Co
21. What is the function of Cation Ex (1) It determines the soil's poros	
(2) It measures the soil's ability	to retain and exchange nutrients
(3) It affects the soil's color and	texture
(4) It influences soil erosion	
	is a macronutrient required for plant growth?
(1) Molybdenum (2) Zinc	(3) Boron (4) Nitrogen
23. What is the primary source of org	anic carbon in soil?
(1) Decomposed plant and anima	al matter
(2) Atmospheric carbon dioxide	

(3) Weathering of parent rock

(4) Chemical fertilizers



124. Which soil property is most cre	icial for plant	growth?			
(1) Soil color					
(2) Soil density					
(3) Soil texture	(3) Soil texture				
(4) Soil electrical conductivity	у		of professional state		
125. What is the primary function o	f phosphorus	in plants ?			
(1) Root development	国常国	(2) Cell division			
(3) Chlorophyll formation	道数	(4) Water retention			
126. Which of the following is a pri	mary soil-for	ning process ?			
(1) Physical weathering	mary son-ton	(2) Chemical weath	nering		
(3) Biological weathering		(4) All of the above	Manufa Sharavalli (1) . TSI-		
(5) Diological weathering			amuenS (C)		
127. What is the parent material of	black soil (reg	ur) ?			
(1) Sandstone		(2) Shale	(4) Inoreasing		
(3) Basaltic lava		(4) Limestone			
128. What is the primary reason for	the red color	in red soil ?			
(1) High iron oxide content		(2) High calcium c	arbonate		
(3) High organic matter		(4) High clay conte	ent et augres a (2)		
129. Which of the following is a ma	njor componer	nt of Soil Organic Matt	er (SOM) ?		
(1) Lignin (2) Sar	ıd	(3) Clay	(4) Iron		
130. Which soil amendment is com	monly used to	reduce soil acidity ?	国政党 近次後 国際国際の対象を(2)		
(1) Urea (2) Lin	ne	(3) Gypsum	(4) Phosphoric acid		
131. Quartizite is a			- Carpengua (2)		
(1) Sedimentary rock		(2) Metamorphic re			
(3) Igneous rock		(4) Fossiliferous ro	ock		
		20	(A)		



132.	date back to over 3.5		onsidered the oldest, conta	ining rocks that
	(1) Dharwar System	n	(2) Aravalli System	L
	(3) Archean System	n	(4) Cuddapah Syste	em
133.	The term 'Purana' ro (1) Archean and D	-	geology refers to which of	the following?
	(2) Cuddapah and	Vindhyan Systems		
	(3) Gondwana and(4) Siwalik and Ka	Deccan Trap Systems rewa Systems	manual — A.	
134.	Which is the finest of	quality of iron ore?		
	(1) Hematite	(2) Magnetite	(3) Limonite	(4) Siderite
135.	Which Indian State	is the leading produce	er of mica ?	
	(1) Jharkhand	(2) Rajasthan	(3) Andhra Pradesh	(4) Odisha
136.	Which of the following statements about the Earth's inner core is correct?			
	(1) It is in a liquid state composed mainly of iron and nickel			
	(2) It is in a solid state composed mainly of iron and nickel			
	(3) It is in a semi-solid state composed mainly of silicate rocks			
	(4) It is in a gaseou	s state composed mai	nly of hydrogen and helius	m residence
137.	Which layer of the H	earth is characterized l	by plasticity, allowing tect	onic plates to move ?
	(1) Lithosphere	(2) Asthenosphere	(3) Mesosphere	(4) Outer Core
138.	Which layer of the H	earth is responsible for	r the generation of its mag	netic field?
	(1) Crust	(2) Mantle	(3) Outer Core	(4) Inner Core
139.	Which type of rock	s formed due to the d	eposition and compression	of sediments ?
	(1) Metamorphic	(2) Volcanic	(3) Igneous	(4) Sedimentary



140.	What does a high Biochemical Oxy	ygen Demand (BOD) indicate about a water sample ?	
	(1) Low level of microbial activity		
	(2) High level of organic pollution		
	(3) Presence of heavy metals	The Seasthean Commence of Edition	
	(4) High oxygen content		
141.	What role do forested catchments recharge?	play in the context of rainwater harvesting and groundwater	
	(1) They decrease infiltration rate	es due to dense vegetation	
	(2) They act as natural sponges, a	bsorbing rainfall and facilitating groundwater recharge	
	(3) They primarily contribute to s	surface runoff, reducing groundwater recharge	
	(4) They have minimal impact on	the hydrological cycle	
142.	Which term describes the measure	of a soil's ability to transmit water when fully saturated?	
	(1) Porosity	(2) Permeability	
	(3) Hydraulic conductivity	(4) Specific yield	
143.	Which of the following is a primar (1) Heavy metals	y contributor to eutrophication in water bodies?	
Γ	(2) Nitrates and phosphates		
L	(3) Pathogenic microorganisms		
	(4) Sediments		
144.	. Which hydrological process is enh	anced by afforestation activities in watershed areas?	
	(1) Surface runoff	(2) Soil erosion	
	(3) Evapotranspiration	(4) Groundwater recharge	
145.	Which geological formation is least	st likely to serve as a good aquifer?	
	(1) Sandstone	(2) Limestone	
	(3) Shale	(4) Gravel	
		22 (A)	



- 146. In the context of water conservation, what is the primary purpose of a 'check dam'?
 - (1) To divert river flow for navigation
 - (2) To store large volumes of water for urban use
 - (3) To recharge groundwater and prevent soil erosion
 - (4) To generate hydroelectric power
- 147. Which of the following is a primary objective of watershed management in forested regions of India?



- (1) Expansion of urban infrastructure
- (2) Soil and water conservation to maintain ecological balance
- (3) Promotion of industrial development
- (4) Reduction of forest cover for agriculture



- 148. Which Indian forest type is most effective in cloud interception and moisture capture, contributing significantly to local hydrology?
 - (1) Tropical dry deciduous forests
- (2) Mangrove forests

(3) Montane cloud forests

- (4) Thorn forests
- 149. Which of the following methods is used to estimate average precipitation over an area?
 - (1) Arithmetic mean method
- (2) Thiessen polygon method

(3) Isohyetal method

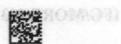
- (4) All of the above
- 150. How does the presence of leaf litter in forested areas influence soil moisture dynamics?



- (2) It increases evaporation rates from the soil surface

(1) It decreases soil moisture by absorbing rainfall

- (3) It enhances soil moisture retention by reducing evaporation and promoting infiltration
- (4) It has no significant effect on soil moisture



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- (42) Which of the following is a prensity objective of watershed management at forested explorer of hear?
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 - (I) Preminent of sidesy of development
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- 48. Which indien forcat type a good effective in cloud antarcopium and more the mapture, coordinate algorificantly to local byde fory?
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