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# APPSC FRO (M)

Previous Year Paper (General Forestry-I) 04 Jun, 2025





Enter the Registered Number

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Series

PAPER – II (English Version) Answer Sheet will lead to have idention



Question Booklet Sl. No.

Time: 150 Minutes

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 (A) (B) (C) (D). 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:



(B) (C) (D)

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.

P.T.O.



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5. Each question is followed by 4 answer choices. Of these, you have to carefully select one correct answer and mark it on the OMR Answer Sheet by darkening the appropriate circle for the question. If more than one circle is darkened, the answer will not be valued at all. Use Blue or Black Ball point pen to make thick mark to fill the circle completely. Make no other stains or marks. Using Whitener/Blade/Eraser/Chalk Powder anywhere on the OMR Answer Sheet or any kind of tampering to change the answers on OMR Answer Sheet will lead to invalidation of the entire OMR Answer Sheet.

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



- 6. 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.

meet please get it replaced immediately

- 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.
- 10. 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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. Which of the following plant groups belo	ongs to Cryptogams?	
(1) Gymnosperms	(2) Angiosperms	
(3) Pteridophyta	(4) Dicotyledons	
. What type of venation is found in Monoc	回解回 cotyledons ? 回解回	H) Kest
(1) Reticulate venation	(2) Parallel venation	on Control of the Con
(3) Spiral venation	(4) No venation	toxikmyoliga (1)
. Which of the following is an example of	a Gymnosperm ?	
(1) Mango (2) Neem	(3) Pine	(4) Sandalwood
. Which group of plants has seeds enclosed	d within a fruit?	
(1) Angiosperms	(2) Thallophyta	
(3) Pteridophyta	(4) Gymnosperms	
Which of the following is an example of		
(1) Bamboo (2) Mango	(3) Grass	(4) Wheat
What is the function of a pollen tube?		
(1) Photosynthesis	(2) Water absorption	
(3) Facilitates fertilization	(4) None of the abo	ove loud sala and A
The study of plant classification is known	e primyzotorią grimotycą i n as znatą spar	
(1) Morphology (2) Anatomy	(3) Ecology	(4) Taxonomy
How do Pteridophytes reproduce?	© 16	(4) Reproduction
(1) Spores (2) Seeds	(3) Roots	(4) Rhizome
The main function of xylem in plants is to	o transport	(1) The process of p (2) The study of lear
(1) Food	(2) Water and Mine	(3) The process clare
(3) Oxygen	(4) Hormones	(4) The mode of an
	3	

	HC/MOR
10.	Which term r
	(4) == 4.1.

22			
. Which term refers to	the natural home of a	plant?	
(1) Habit	(2) Ecosystem	(3) Habitat	(4) Phyllotaxy
. Which part of the pla	ant is positively geotro	回知回 pic? Nation 回公尺	
(1) Root	(2) Leaves	(3) Stem	(4) Flower
Which type of root is	modified for food storag	e and is thicker in the mid	ldle and tapered at both ends
(1) Napiform root	(2) Tuberous root	(3) Fusiform root	(4) Conical root
Which root modifica	tion helps in respiratio	n in mangrove plants?	3. Which of the following
(1) Prop roots	(2) Stilt roots	(3) Nodular roots	(4) Pneumatophores
Which of the follow	ng is a characteristic o	f prop roots ? 及於國	4. Which group of plants
	er nodes of stem for su		
(2) Develop from h	orizontal branches and	grow downwards	
(3) Grow vertically	upward for respiration		
(4) Form nitrogen-	fixing nodules	hib o to sequence on a g	
	modification is found i	n onions ?	
(1) Tuber	(2) Rhizome	(3) Bulb	(4) Corm
What is the function	of a Phylloclade stem	modification?	
(1) Storing water an	nd performing photosy	nthesis	
(2) Supporting clim	bing plants	sa a comi si noma lass	
(3) Absorbing nutri	ents from the host		(1) Morphology
(4) Reproduction			
What is Phyllotaxy?	(3) Roots		
(1) The process of j	photosynthesis in leave	es	
(2) The study of lea	of venation patterns		
	eaf abscission		(1) Food
(4) The mode of arr	rangement of leaves on	a stem or branch	



2			
. Which type of leaf has dee	p incisions reaching t	the midrib?	
(1) Sessile leaf	(3) Pistil	(2) Pinnate leaf	
(3) Compound leaf	Similal Street and alide	(4) Simple leaf	
9. Which part of the leaf cont	tains stomata ?		
(1) Midrib (2)	Lamina (+) all o	(3) Petiole	(4) Stipules
). What is the function of stip	oules in some plants?	espos sible for modif	
		(2) Protection of you	ung leaves
(3) Photosynthesis	side (4) Ribosomo	(4) Seed dispersal	(3) Endoplastic
1. What is the term for leaves			annennati () III
(1) Sessile (2)	Stipulate	(3) Petiolate	(4) Whorled
2. What type of margin does	a Hibiscus leaf have		Whe first adopted the
(1) Lobbed (2)	Dentate	(3) Entire	(4) Serrate
3. What is inflorescence?  (1) The arrangement of flo	- C	nedified into pitcher (2) Nepenthes	
(2) The process of pollina	tion by no nos nafto a		
(3) The arrangement of le	aves on a stem		
(4) The structure of the ov			
4. Which type of inflorescence	te is found in banana	\= 4F-01	
		(3) Spadix	(4) Catkin
5. Hypanthodium a special ty	pe of inflorescence is		ne following plants
(1) Neem (2)		(3) Coriander	(4) Sunflower
6. The outermost whorl of a f	lower is called		
(1) Calyx (2)	Androecium	(3) Gynoecium	(4) Corolla
	_		



(1) Stigma	(2) Ovary	(3) Pistil	(4) Androecium
3. Plasmodesmata in p	olant cells are responsible	日常日 e for 延伸 日記は	(3)- Compound learn
(1) Transport of io	ns	(2) Protein synthesis	
(3) Communicatio	n between adjacent cells	(4) Photosynthesis	• (i) Middle •
. Which organelle is	responsible for modifyin	g, sorting and packaging	proteins?
(1) Mitochondria	Bey to notice of you	(2) Golgi apparatus	
(3) Endoplasmic re	eticulum 🗓 🛇	(4) Ribosomes	(3) Photosyntheses
. Which of the follow	ving structures is involve	d in protein synthesis?	What is the term for
(1) Ribosomes	(2) Mitochondria	(3) Lysosomes	(4) Peroxisomes
. Who first adopted t	he system of binomial no	omenclature ?	What tems of most
(1) Darwin	(2) Lamarck	(3) Hooke	(4) Linnaeus
. Which plant leaves	modified into pitchers to	trap insects?	
(1) Opuntia	(2) Nepenthes	(3) Aloe	(4) Pea
. The central part of t	the tree trunk, which is o	ften soft or decayed, is ca	alled proce balla
(1) Cambium	(2) Pith	(3) Xylem	(4) Phloem
. Which part of the tr	ee trunk is responsible fo	or the formation of new v	wood tissues ?
(1) Pith	(2) Bark	(3) Cambium	
		(i Cyathma	
. Which of the follow	ving plant tissues does No	OT have living cells at m	naturity?
(1) Sclerenchyma	(2) Collenchyma	(3) Parenchyma	(4) Phloem
. Which type of meri	stematic tissue is respons	sible for secondary growt	th in plants ?
		(A) I . 1	Pin Pin
(1) Apical merister	m	(2) Intercalary meris	tem Roma luo en T



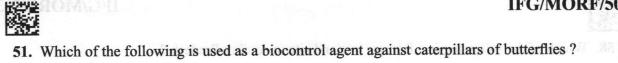
(2) Storing food	(1) Callus (2) Fmbryoid  44. Which of the following factors does NOT dire
assistant of analysis against a second second of the secon	
	ation Hig Rose (3) bosos safe Emiliarity
Which plant hormone is primarily responsib	ble for fruit and seed development after fertilization?
(1) Cytokinin (2) Gibberellin	(3) Auxin (4) Ethylene
eggs ?	production where offspring develop from unfertilized
(1) Parthenogenesis	(2) Apomixis
(3) Polyembryony	(4) Somatic embryogenesis
<ul><li>(2) To rapidly achieve homozygosity in b</li><li>(3) To produce plants with increased ploi</li><li>(4) To introduce foreign genes into plants</li></ul>	dy levels  47. Which plant homeons is known as an incompany of the plant growth regulator is commonly at 3. Which plant growth regulator is commonly at 3. (2) Cytokala
(3) Single parent involvement	(2) Genetic variation in offspring  (4) Offspring are clones of the parent
Which modern plant breeding technique in different plant species to create a hybrid?	avolves the fusion of protoplasts from two
(1) Gene editing	(4) Forms the structural components of riboso
(2) Polyploidization	
(3) Somatic hybridization	
(4) Marker-assisted selection	
	What is the term for the type of asexual reggs?  1) Parthenogenesis 3) Polyembryony  What is the purpose of using double haplo 1) To induce mutations for trait develope 2) To rapidly achieve homozygosity in b 3) To produce plants with increased ploi 4) To introduce foreign genes into plants  Which of the following is NOT a character  (1) Rapid population increase (3) Single parent involvement  Which modern plant breeding technique in lifferent plant species to create a hybrid?  (1) Gene editing (2) Polyploidization (3) Somatic hybridization

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





-				
	plant tissue cultur w plants can deve		mass of undifferentiated c	ells from which
(1	) Callus	(2) Embryoid	(3) Protoplast	(4) Explant
. W	hich of the follow	ving factors does NOT d	irectly affect the rate of the	ranspiration in plants?
(1	) Wind speed	(2) Soil pH	(3) Temperature	(4) Humidity
W	hich pigment is p	rimarily responsible for	capturing light energy du	aring photosynthesis?
(1	) Carotene	(2) Xanthophyll	(3) Chlorophyll b	(4) Chlorophyll a
W	hich enzyme is cr	ucial for carbon fixation	during photosynthesis?	CD COS
(1	) Ribulose-1, 5-	bisphosphate carboxylas	se/oxygenase (RuBisCO)	eggs : xull (1) Parthenogenes
(2	) Nitrate reducta	se (4) Somatic embryon	-0/	
(3	) Pyruvate kinas			
(4	) ATP synthase		of us ng double hapled	io. What is the purpose
. W	hich plant hormone	e is known to induce seed	dormancy and help plants	withstand stress condition
(1)	) Auxin	(2) Gibberellin	(3) Abscisic acid	(4) Ethylene
W	hich plant growth	regulator is commonly	used to induce rooting in	plant cuttings ?
(1)	) Gibberellin	(2) Cytokinin	(3) Abscisic acid	(4) Auxin
In	the context of pla	nt genetics, what is the	primary function of mess	enger RNA (mRNA) ?
(1)	) Catalyzes bioch	nemical reactions		(3) Single parent in
(2)	) Carries genetic	information from DNA	to ribosomes	
(3)	) Transports ami	no acids to ribosomes	ore ang <del>ressinger in</del> es to reate a hybrid?	
(4)	) Forms the struc	ctural components of rib		(1) Gene editing
	hich nutrient deficion lorotic in plants?	ciency causes young leav	ves to turn uniformly yell	owish-green or
(1)	) Nitrogen	(2) Sulfur	(3) Iron moin alone b	(4) Magnesium
			0	



	(1)	Trichoderma		
	(2)	Streptococcus rada anti la anni 4 (1)		
ľ	(3)	Bacillus thuringiensis		
•	(4)	Saccharomyces cerevisiae		
		(3) Mango Tree (4) Flous Tr	(2) Teak Tree	
2. I		ich fungal pathogen caused the brown spot		sengal Famine ?
	` /	Helminthosporium oryzae (Bipolaris oryza	ae)	widne J. mil. (3)
	` /	Alternaria solani		
		Phytophthora infestans	HAN A MINORAL	
	(4)	Puccinia graminis		
3.	Wh	at are regions called that are exceptionally	rich in species diversity	? sersino (1)
		Biomes (2) Hotspots	(3) Reserves	(4) Biospheres
	` '	of chreatened species ?	o maintains the Red C	2. Wrigh organizatio
4.	Wh	nich is the largest animal found in India?	(2) - REJCN	9WW-(1)
	(1)	Tiger (2) Leopard	(3) Rhino	(4) Elephant
_	and.	Y 1 WEING CO.	".e (erm "Biodiversity"	r paximinadad en wg
5.		e Lankamala Wildlife Sanctuary is home to		(1) Edward Wilson
ſ	` '	Great Indian Bustard	(2) Olive Ridley Turtl	(3) Robert May 91
	(3)	Jerdon's Courser	(4) Indian Peafowl	
6.	Nar	me of the Biosphere Reserve in Andhra Prac		
		Marripakala Biosphere Reserve		
	' '	Seshachalam Biosphere Reserve	l agreement was signed	
		Papikonda Biosphere Reserve		
		Kambalakonda Biosphere Reserve		
	( )			
7.	Wh	nat is an example of ex-situ conservation?	New is characteric and aid 回るの	
•	(1)	National Parks of this Holigort (2)	(2) Wildlife Sanctuar	ies anoubiood (1)
•	(1)			



58.	Which of the following is a Ramsar wetland	d site in Andhra Pradesh?
	(1) Kolleru Wildlife Sanctuary	(2) Pulicat Wildlife Sanctuary
	(3) Nelapattu Wildlife Sanctuary	(4) None of the above
59.	Which one is considered a 'keystone species	s' in Indian forests ?
	(1) Neem Tree (2) Teak Tree	(3) Mango Tree (4) Ficus Tree
60.	Which National Park is home to the only As	
	(1) Jim Corbett National Park	(2) Ranathambore National Park
	(3) Khazaranga National Park	(4) Gir National Park
61.	Which Indian State has the highest species of	(4) Puccinia graminis ? tylisterinia (4)
	(1) Gujarat (2) Kerala	(3) Arunachal Pradesh (4) Rajasthan
62.	Which organization maintains the Red List of	of threatened species ?
	(1) WWF (2) IUCN	(3) UNEP (4) CITES
63.	Who popularized the term "Biodiversity"?	Tagil (1)
	(1) Edward Wilson	(2) Charles Darwin
	(3) Robert May	(4) Alfred Wallace and paid assistation (1)
64.	Which group has the highest species diversit	ty among animals ?
	(1) Fishes (2) Mammals	(3) Birds (4) Insects
65.	Which international agreement was signed to	to conserve biodiversity ?
	(1) Kyoto Protocol	(2) Paris Agreement of a sounding (2)
	(3) Convention on Biological Diversity	(4) Rio + 20 Summit provising (A)
66.	Which biome in India is characterized by hig	gh rainfall, dense vegetation and rich biodiversity?
	(1) Deciduous Forest and Mallow (S)	(2) Tropical Rainforest
	(3) Alpine Tundra	(4) Thar Desert ashard fasting look (8)
	9	10 (A)



A Section 1	
77. Which Indian biome is best known for	or its salt-tolerant trees and aquatic biodiversity?
(1) Deciduous Forests	(2) Grasslands properties (1)
(3) Mangroves	(4) Alpine Meadows
8. Which of the following is NOT an ab	niotic factor influencing biomes ?
(1) Predator population	(2) Soil type
(3) Rainfall	(4) Temperature
9. Which of the following is the most si (1) Overgrazing	gnificant cause of biodiversity loss?  (2) Soil erosion
(3) Air pollution	
Shillong Platean	(1) Theretal desiration and regularities
<ul><li>Which of the following is an example</li><li>(1) Introduction of an invasive special</li></ul>	ies replacing a native species
(2) Extinction of a pollinator leading	g to the extinction of its plant species
(3) Over-harvesting of fish leading to	to their population decline
(4) Loss of tigers due to hunting	
1. Which legislation in India recognizes resources?	the rights of forest-dwelling communities to land and ot
(1) Wildlife Protection Act, 1972	
(2) Forest Conservation Act, 1980	
(3) Scheduled Tribes and Other Trac Act, 2006	ditional Forest Dwellers (Recognition of Forest Rights)
(4) Environmental Protection Act, 1	78. Carbon dioxide acceptor in C4 plants 686
2. The Chipko Movement was initiated	
(1) Promote mining in forest areas	
MALE!	79. Which of the toflowing is classified as a non-com at
(3) Prevent deforestation and conse	
(4) Support timber extraction industrial	(3) Solar Energy
	11 (



(1	1) Increased biodiversity		
(2	2) Reduction in greenhouse gas emissions	(3) Mangroves	
(3	3) Submergence of forests and wildlife habit	itats	
(4	Improved groundwater recharge	. Which of the following: NOT an ablour i	.80
74. W	That percentage of India's surface water is ut	tilized by the agricultural sector?	
(1	(2) 0.89	(3) 0.65 (4) 0.5	
75. W	Thich plateau is known as the mineral heartla	and of India?	
	B) Chota Nagpur Plateau	<ul><li>(2) Malwa Plateau</li><li>(4) Shillong Plateau</li></ul>	
76 W	Thich of the following is a direct consequence	or of deforestation due to mining in India 2	
(1		(2) Loss of habitat for wildlife	
(3	B) Enhanced soil fertility	(4) Expansion of agricultural lands (8)	
m to bas	Thich of the following strategies is essential ineral resources in India?  1) Rapid depletion of high-grade ores	al for the sustainable management of  Which legislation in all amounts are the managements of the management of the mana	11
(2	2) Recycling and reuse of metals		
(3	3) Ignoring environmental regulations	(2) Forest Conservation Act, 1980	
(2) (4	1) Increasing reliance on imported minerals		
78. Ca	arbon dioxide acceptor in C4 plants		
(1	) Ribulose-1-5 diposhphate	(2) Phosphoenol pyravate	
(3	3) Oxaloactate	(4) None of the above	
79. W	hich of the following is classified as a non-	conventional source of energy ?	
(1	) Coal	(2) Natural Gas	
(3	S) Solar Energy	(4) Petroleum (4) Petroleum (5) (5)	
	12	:	(A)

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



	(1) Lack of renewable energy resources	(2) Heavy reliance o	n coal
	(3) Insufficient government policies	(4) High cost of nucl	ear energy
04			
81.	As of 2024, which energy source accounts for	r the largest share of India	a's electricity generation?
	(1) Natural Gas (2) Coal	(3) Solar Power	(4) Nuclear Energy
82.	Which form of land degradation is most prev	valent in India ?	
	(1) Soil erosion	(2) Soil subsidence	
	(3) Landslides	(4) Desertification	
83.	Which State in India has the largest area affe	ected by soil erosion?	
	(1) Rajasthan (2) Madhya Pradesh	(3) Maharashtra	(4) Uttar Pradesh
0.4	YY71.1	7 ( ) ( ) ( ) ( )	
84.	Which type of soil in India is known for its se	elf-ploughing characterist	ic due to high clay content?
	(1) Black soil (2) Red soil	(3) Alluvial soil	(4) Laterite soil
85.	What is the term for land left uncultivated for	or one or less than one ag	ricultural year ?
	(1) Waste land (2) Fallow land	(3) Barren land	(4) Pasture land
		ability to local condition	(4) Reduced adapt
86.	Which organization publishes the 'Desertific	cation and Land Degrada	tion Atlas of India'?
	(1) Ministry of Environment, Forest and Cl	imate Change	sal. Winds shyloshusal
	(2) Indian Space Research Organisation (IS	SRO)	
	(3) National Remote Sensing Centre		
	(4) Space Applications Centre		
6			
87.	The art and science of cultivating forests cro		
	(1) Silviculture (2) Horticulture	(3) Apiculture	(4) Agriculture
		growt aka lected trees	(1) To promote the
	What is the dominant forest type in Andhra l	Dendock 2 NEARS	
88.			
88.	(1) Tropical and Deciduous Forests	(2) Mangrove Forest	S
88.	<ol> <li>Tropical and Deciduous Forests</li> <li>Littoral and Swamp</li> </ol>	<ul><li>(2) Mangrove Forest</li><li>(4) Semi-evergreen I</li></ul>	



(2) Tropical Dry Deciduous Forest
(4) Semi-evergreen Forests of fluent (E)
aphic factors ? 画版 and doldw ASOS York A 113
(2) Soil composition
(4) Altitude some of intel degree dation is most prev
on sequestration?
rests septilebra (E)
83. Which State in India has he largest area affect
~2_
neration?
(1) Black soil (2) SOCUL
85. What is the term for lant left uncultivated for
(1) Waste land ( l'a)low land no
ns
n natural regeneration?
erations in forestry?
s in forestry ?
88. What is the dominant for 1st type in Andhra P
(1) Tropical and Decide ous Forests
(1) Tropical and Decide ous Forests (3) Littoral and Swamij



- 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

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(A)



-	1) Fruit production	(2) Windbreaks and coastal protection
(3		(4) Ornamental gardening (C)
02. W	Which planting technique is most suitable	for waterlogged soils in India?
	1) Pit planting	(2) Mound planting
(	3) Trench planting	(4) Dibbling was evitoring to a star was de-
03. W	What is the ideal pH range for most forest	
(	1) 0.5 to 5.5	(2) 5.5 to 6.5
(	3) 6.5 to 7.5	(4) 7.5 to 8.5
04. V	What is the primary purpose of hardening	off seedlings in a forest nursery?
	1) To accelerate growth before transplan	an arms of the found and the property of the state of the
(	2) To reduce water content in tissues	(1) Objects receit
(	3) To acclimate seedlings to external env	vironmental conditions
,		of the first the
(	4) To increase leaf production	
05. Iı	candis grow	unction of the open-ended design at the bottom of e
05. In	n the context of root trainers, what is the fi	
05. In	n the context of root trainers, what is the fiell?  1) To allow excess water drainage  2) To enable air pruning of roots	unction of the open-ended design at the bottom of e
05. In	n the context of root trainers, what is the fiell?  1) To allow excess water drainage  2) To enable air pruning of roots	(1) Salme and alkalime alluvial soils (2) Lateritic and well-d uned alluvial soils (3) What is the flowering or te of Dendrocalamus
()	n the context of root trainers, what is the fiell?  1) To allow excess water drainage  2) To enable air pruning of roots  3) To facilitate nutrient leaching  4) To provide aeration to the soil	(1) Saline and alkaline and alluvial soils (3) Lateritic and well-d aned alluvial soils (9). What is the flowering cy te of Dendrocalamus (1) Every 5-10 years
05. In case ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	n the context of root trainers, what is the fiell?  1) To allow excess water drainage  2) To enable air pruning of roots  3) To facilitate nutrient leaching  4) To provide aeration to the soil  In grafting practices, what is the significance	e for mottod and ta ngiseb bebne-neqo and for noise (1). Saline and alkaline (1).  (3) Lateritic and well-d uned alluvial soils.  (4) What is the flowering cy te of Dendrocalamus.  (4) Every 5-10 years.  (3) Every 30-50 years.
05. In (( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	n the context of root trainers, what is the fiell?  1) To allow excess water drainage  2) To enable air pruning of roots  3) To facilitate nutrient leaching  4) To provide aeration to the soil  In grafting practices, what is the significance of the scion and rootstock?	unction of the open-ended design at the bottom of ended allowed allowed allowed soils  (3) Lateritic and well-d uned allowed soils  (4) Every 5-10 years  (5) Every 30-50 years  (6) Every 30-50 years
(05. In co	n the context of root trainers, what is the fiell?  1) To allow excess water drainage  2) To enable air pruning of roots  3) To facilitate nutrient leaching  4) To provide aeration to the soil  In grafting practices, what is the significance of the scion and rootstock?	ention of the open-ended design at the bottom of entire and selection of the open-ended design at the bottom of the open-ended design at the bottom of entire and selection of the open-ended design at the open-ended design
(05. In case (106. In case (10	n the context of root trainers, what is the fiell?  1) To allow excess water drainage  2) To enable air pruning of roots  3) To facilitate nutrient leaching  4) To provide aeration to the soil  In grafting practices, what is the significant of the scion and rootstock?  (1) To enhance photosynthesis  (2) To ensure successful graft union	unction of the open-ended design at the bottom of ended allowed and sold sold sold sold sold sold sold sol
() () () () () () () ()	n the context of root trainers, what is the fiell?  1) To allow excess water drainage  2) To enable air pruning of roots  3) To facilitate nutrient leaching  4) To provide aeration to the soil  In grafting practices, what is the significant of the scion and rootstock?  1) To enhance photosynthesis  2) To ensure successful graft union  3) To promote flower development	ce of aligning the vascular candidates of each of all with fing it.  (3) Lateritic and well-d uned alluvial soils  (4) Lateritic and well-d uned alluvial soils  (5) What is the flowering of the of Dendrocalamus  (6) Every 30-50 years  (7) Every 30-50 years  (8) Micogen fixation in symbiosis with frame (1) Micogen fixation in symbiosis with frame (2) Mycombizal assoct. for with fing (2)



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

- (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 fumigating nursery beds before sowing seeds?



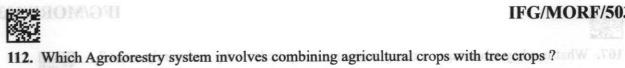
- (1) To increase soil fertility
- (2) To eliminate soil-borne pathogens and pests
- (3) To enhance seed germination rates
- (4) To adjust soil pH levels
- 110. In the context of nursery tending, what does the term 'pricking out' refer to?
  - (1) Removing weeds from nursery beds
  - (2) Transplanting 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

17

(A)



(	(1)	Silvopastoral System	(2) Agrosilvopastoral System	
(	(3)	Agrisilvicultural System	(2) They facilities and Lots	
		at is the main purpose of Apiculture wit	(4) They pr 2021 rapid vater drainage	
(	(2)	To increase honey production by plant	ing nectar-rich trees	108.
(	(3)	To plant trees that prevent soil erosion	(I) Clayey soil	
(	(4)	To grow trees that act as windbreaks	(2) Red soil mixed with clay	
		at is a major reason why mixed crops ar	(4) Rocky soil	
	` ′	They minimize pest attacks and soil de		
		They allow for quicker harvesting	What is the primary purpose of the residual to	
		They are easier to plant		
1	(4)	They require less maintenance	(2) To eliminate soil-be ne pathogens and pe	
5. \	Whi	ich government scheme promotes affore	estation under Social Forestry?	
	(1)	PM-KISAN	(2) CAMPA	
	(3)	Swachh Bharat Abhiyan	(4) MGNREGA resum to exemps and all	.011
6. V	Whi	ich Indian program focuses on increasin	and versation in all above gravemed (1) and forest cover through community participation	n?
	(1)	National Mission for a Green India	(2) Transplanting seeds ugs from seedbeds to	
	(2)	National Afforestation Programme	(3) Pruning the roots of seedlings	
	` '	Joint Forest Management	(4) Applying fertilizers to young plants	
	. ,	Social Forestry Scheme	回報回 is the purpose of S. elterbelts in Extensi	
			the practice of Jhum cultivation (shifting cultivation)	vation)
	(1)	Indo-Gangetic Plains	(2) Western Ghats (E)	
	(2)	Eastern Himalayan Region	(4) Deccan Plateau (4)	
	(3)	Lastern Timatayan Region	( ) =	



257.			
118.	Which agroforestry system in the Hima crops, allowing farmers to grow crops a		e cultivation with agricul
	(1) Silvopastoral System	(2) Taungya System	m vwzgalolioż (1)
	(3) Alley Cropping	(4) Windbreaks	(34 Soil sexture
9.	Allelopathy refers to	nductivity	
	(1) The symbiotic relationship between	n plants	
	(2) The absorption of nutrients by plan	nt roots	
-	(3) The process of pollination in flower	ring plants	ald Title
	(4) The effect of chemicals released by	one plant on the growth of	fanother
20.	What is the principal aim of the Nationa		6. Which of the follower
	(1) Revenue generation from forests	ani	
	(2) Ensuring environmental stability ar		
_	(3) Expansion of agricultural lands		
	(4) Increasing timber production		
	(1) mercusing union production		
21.	What is the function of Cation Exchange	e Capacity (CEC) in soil?	
	(1) It determines the soil's porosity	ason for the red color in re	8. What is the primary r
	(2) It measures the soil's ability to retain	in and exchange nutrients	(f) High non oxide
	(3) It affects the soil's color and texture	e) total	am ainsgro rigiti 🙃
	(4) It influences soil erosion		
2	Which of the following elements is a ma	To inanograpo rojem s zi go	
	(1) Molybdenum (2) Zinc	(3) Boron	
		noida (6) in is <u>comm</u> only used to red	(4) Nitrogen
3.	What is the primary source of organic ca	arbon in soil?	
	(1) Decomposed plant and animal matt	ter	
	(2) Atmospheric carbon dioxide		
	(3) Weathering of parent rock		
	(4) Chemical fertilizers		
		19	



124.	Which soil property is most crucia	l for plant	growth?		
	(1) Soil color			crops, allowing farmers	
	(2) Soil density				
	(3) Soil texture				
	(4) Soil electrical conductivity			Alleloging verfers to	.011
125.	What is the primary function of ph	osphorus i	n plants ?	(I) The syniatotic relati	
	(1) Root development		(2) Cell division		
	(3) Chlorophyll formation	633	(4) Water retent	(4) The effect of the second	
126.	Which of the following is a primar		ning process?		
	(1) Physical weathering		(2) Chemical w		
	(3) Biological weathering	d lanious tolk	(4) All of the all	(1) Revenue gonorados sociones estados estados (2) Ensuring e	
127.	What is the parent material of blac	k soil (reg	ur)? zbani isun		
	(1) Sandstone		(2) Shale	(4) Increasing tunber pr	
	(3) Basaltic lava		(4) Limestone	What is the function of (	121.
128.	What is the primary reason for the	red color	in red soil?	(1) It determines the s	
	(1) High iron oxide content		(2) High calciu	m carbonate	
	(3) High organic matter		(4) High clay c	ontent and stooms if (E)	
129.	Which of the following is a major	componen		Matter (SOM) ?	
				(4) Iron doidW	
130.	Which soil amendment is common	oe (8) nly used to	reduce soil acidity		
	(1) Urea (2) Lime	n in soil?		(4) Phosphoric a	cid
131.	Quartizite is a		ahivoih	(2) Atmospheric carbon	
	(1) Sedimentary rock		(2) Metamorph	ic rock gninediaeW (2)	
	(3) Igneous rock		(4) Fossiliferou	is rock negligation (4)	
		. 6	20		(A)



132.	32. Which geological formation in India is considered the oldest, contadate back to over 3.5 billion years?	nining rocks that
	(1) Dharwar System (2) Aravalli System	1 1
	(3) Archean System (4) Cuddapah Syste	em
133.	33. The term 'Purana' rock system in Indian geology refers to which of	the following?
dayat	(1) Archean and Dharwar Systems	the What are do Specific
	(2) Cuddapah and Vindhyan Systems	
	<ul><li>(3) Gondwana and Deccan Trap Systems</li><li>(4) Siwalik and Karewa Systems</li></ul>	
134.	34. Which is the finest quality of iron ore?	
	(1) Hematite (2) Magnetite (3) Limonite	(4) Siderite
135.	35. Which Indian State is the leading producer of mica?	
	(1) Jharkhand (2) Rajasthan (3) Andhra Pradesh	(4) Odisha
136.	36. Which of the following statements about the Earth's inner core is co.  (1) It is in a liquid state composed mainly of iron and nickel	prect?
	(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 gaseous state composed mainly of hydrogen and heliu	(3) Pathogonic mim
137.	37. Which layer of the Earth is characterized by plasticity, allowing tech	conic plates to move ?
	(1) Lithosphere (2) Asthenosphere (3) Mesosphere	(4) Outer Core
138.	38. Which layer of the Earth is responsible for the generation of its mag	netic field?
	(1) Crust (2) Mantle (3) Outer Core	(4) Inner Core
139.	39. Which type of rock is formed due to the deposition and compression	n of sediments ?
	(1) Metamorphic (2) Volcanic (3) Igneous	(4) Sedimentary
	21	(A)



(1) Porosity (2) Permeability (3) Hydraulic conductivity (4) Specific yield  143. Which of the following is a primary contributor to eutrophication in water bodies? (1) Heavy metals (2) Nitrates and phosphates (3) Pathogenic microorganisms (4) Sediments  144. Which hydrological process is enhanced by afforestation activities in watershed areas? (1) Surface runoff (2) Soil erosion (3) Evapotranspiration (4) Groundwater recharge			vel of microbial activity	Low level of microbial activi	(1)
(3) Presence of heavy metals (4) High oxygen content  41. What role do forested catchments play in the context of rainwater harvesting and grourecharge? (1) They decrease infiltration rates due to dense vegetation (2) They act as natural sponges, absorbing rainfall and facilitating groundwater recharge (3) They primarily contribute to surface runoff, reducing groundwater recharge (4) They have minimal impact on the hydrological cycle  42. Which term describes the measure of a soil's ability to transmit water when fully saturat (1) Porosity (2) Permeability (3) Hydraulic conductivity (4) Specific yield  43. Which of the following is a primary contributor to eutrophication in water bodies? (1) Heavy metals (2) Nitrates and phosphates (3) Pathogenic microorganisms (4) Sediments  44. Which hydrological process is enhanced by afforestation activities in watershed areas? (1) Surface runoff (2) Soil erosion (3) Evapotranspiration (4) Groundwater recharge		(1) Dharwar System	vel of organic pollution	High level of organic pollution	(2)
41. What role do forested catchments play in the context of rainwater harvesting and ground recharge?  (1) They decrease infiltration rates due to dense vegetation  (2) They act as natural sponges, absorbing rainfall and facilitating groundwater recharge  (3) They primarily contribute to surface runoff, reducing groundwater recharge  (4) They have minimal impact on the hydrological cycle  42. Which term describes the measure of a soil's ability to transmit water when fully saturate  (1) Porosity  (2) Permeability  (3) Hydraulic conductivity  (4) Specific yield  43. Which of the following is a primary contributor to eutrophication in water bodies?  (1) Heavy metals  (2) Nitrates and phosphates  (3) Pathogenic microorganisms  (4) Sediments  44. Which hydrological process is enhanced by afforestation activities in watershed areas?  (1) Surface runoff  (2) Soil erosion  (3) Evapotranspiration  (4) Groundwater recharge			meday& denolded (iv)	Handi System	
(1) They decrease infiltration rates due to dense vegetation  (2) They act as natural sponges, absorbing rainfall and facilitating groundwater recharge  (3) They primarily contribute to surface runoff, reducing groundwater recharge  (4) They have minimal impact on the hydrological cycle  42. Which term describes the measure of a soil's ability to transmit water when fully saturate  (1) Porosity  (2) Permeability  (3) Hydraulic conductivity  (4) Specific yield  43. Which of the following is a primary contributor to eutrophication in water bodies?  (1) Heavy metals  (2) Nitrates and phosphates  (3) Pathogenic microorganisms  (4) Sediments  44. Which hydrological process is enhanced by afforestation activities in watershed areas?  (1) Surface runoff  (2) Soil erosion  (3) Evapotranspiration  (4) Groundwater recharge			sygen content may or arish a vigoloog maibal as mote a si	High oxygen content	(4)
(2) They act as natural sponges, absorbing rainfall and facilitating groundwater recharge (3) They primarily contribute to surface runoff, reducing groundwater recharge (4) They have minimal impact on the hydrological cycle  12. Which term describes the measure of a soil's ability to transmit water when fully saturat (1) Porosity (2) Permeability (3) Hydraulic conductivity (4) Specific yield  13. Which of the following is a primary contributor to eutrophication in water bodies? (1) Heavy metals (2) Nitrates and phosphates (3) Pathogenic microorganisms (4) Sediments  14. Which hydrological process is enhanced by afforestation activities in watershed areas? (1) Surface runoff (2) Soil erosion (3) Evapotranspiration (4) Groundwater recharge	oundwa	narvesting and ground	o forested catchments play in the context of rainwater		
(3) They primarily contribute to surface runoff, reducing groundwater recharge (4) They have minimal impact on the hydrological cycle  42. Which term describes the measure of a soil's ability to transmit water when fully saturat (1) Porosity (2) Permeability (3) Hydraulic conductivity (4) Specific yield  43. Which of the following is a primary contributor to eutrophication in water bodies? (1) Heavy metals (2) Nitrates and phosphates (3) Pathogenic microorganisms (4) Sediments  44. Which hydrological process is enhanced by afforestation activities in watershed areas? (1) Surface runoff (2) Soil erosion (3) Evapotranspiration (4) Groundwater recharge			ecrease infiltration rates due to dense vegetation	They decrease infiltration rat	(1)
(4) They have minimal impact on the hydrological cycle  42. Which term describes the measure of a soil's ability to transmit water when fully saturat  (1) Porosity (2) Permeability (3) Hydraulic conductivity (4) Specific yield  43. Which of the following is a primary contributor to eutrophication in water bodies?  (1) Heavy metals (2) Nitrates and phosphates (3) Pathogenic microorganisms (4) Sediments  44. Which hydrological process is enhanced by afforestation activities in watershed areas? (1) Surface runoff (2) Soil erosion (3) Evapotranspiration (4) Groundwater recharge	irge	groundwater recharge	et as natural sponges, absorbing rainfall and facilitating	They act as natural sponges,	(2)
(1) Porosity (2) Permeability (3) Hydraulic conductivity (4) Specific yield (5) Heavy metals (6) Pathogenic microorganisms (7) Pathogenic microorganisms (8) Sediments (9) Surface runoff (10) Surface runoff (11) Surface runoff (12) Soil erosion (13) Evapotranspiration (14) Groundwater recharge (15) Which geological formation is least likely to serve as a good aquifer?	W At	ter recharge	imarily contribute to surface runoff, reducing groundw	They primarily contribute to	(3)
(1) Porosity (2) Permeability (3) Hydraulic conductivity (4) Specific yield  43. Which of the following is a primary contributor to eutrophication in water bodies? (1) Heavy metals (2) Nitrates and phosphates (3) Pathogenic microorganisms (4) Sediments  44. Which hydrological process is enhanced by afforestation activities in watershed areas? (1) Surface runoff (2) Soil erosion (3) Evapotranspiration (4) Groundwater recharge			we minimal impact on the hydrological cycle	They have minimal impact or	(4)
(3) Hydraulic conductivity  (4) Specific yield  13. Which of the following is a primary contributor to eutrophication in water bodies?  (1) Heavy metals  (2) Nitrates and phosphates  (3) Pathogenic microorganisms  (4) Sediments  14. Which hydrological process is enhanced by afforestation activities in watershed areas?  (1) Surface runoff  (2) Soil erosion  (3) Evapotranspiration  (4) Groundwater recharge	rated?	r when fully saturated	describes the measure of a soil's ability to transmit was	nich term describes the measure	2. Whi
(3) Hydraulic conductivity  (4) Specific yield  (3) Which of the following is a primary contributor to eutrophication in water bodies?  (1) Heavy metals  (2) Nitrates and phosphates  (3) Pathogenic microorganisms  (4) Sediments  (4) Sediments  (5) Soil erosion  (6) Surface runoff  (7) Surface runoff  (8) Soil erosion  (9) Soil erosion  (1) Groundwater recharge		(1) Jharkhand	(2) Permeability	Porosity	(1)
(1) Heavy metals  (2) Nitrates and phosphates  (3) Pathogenic microorganisms  (4) Sediments  (5) Which hydrological process is enhanced by afforestation activities in watershed areas?  (1) Surface runoff  (2) Soil erosion  (3) Evapotranspiration  (4) Groundwater recharge				Hydraulic conductivity	(3)
(3) Pathogenic microorganisms (4) Sediments  14. Which hydrological process is enhanced by afforestation activities in watershed areas? (1) Surface runoff (2) Soil erosion (3) Evapotranspiration (4) Groundwater recharge		water bodies?	e following is a primary contributor to eutrophication in		
(4) Sediments  14. Which hydrological process is enhanced by afforestation activities in watershed areas?  (1) Surface runoff (2) Soil erosion  (3) Evapotranspiration  (4) Groundwater recharge		(3) It is in a semi-se	and phosphates	Nitrates and phosphates	(2)
14. Which hydrological process is enhanced by afforestation activities in watershed areas?  (1) Surface runoff (2) Soil erosion  (3) Evapotranspiration  (4) Groundwater recharge			enic microorganisms grabad to vialism beaugingo s. 332	Pathogenic microorganisms	(3)
<ul> <li>(1) Surface runoff</li> <li>(2) Soil erosion</li> <li>(3) Evapotranspiration</li> <li>(4) Groundwater recharge</li> <li>(5) Which geological formation is least likely to serve as a good aquifer?</li> </ul>					
(3) Evapotranspiration (4) Groundwater recharge  15. Which geological formation is least likely to serve as a good aquifer?					
(3) Evapotranspiration  (4) Groundwater recharge  15. Which geological formation is least likely to serve as a good aquifer?			runoff (2) Soil erosion	Surface runoff	(1)
s. Which geological formation is least likely to serve as a good aquiter?			ranspiration (4) Groundwater re	Evapotranspiration	
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(1) Metamorphic (1) Volcanic (3) Igneous (4) Sadimentary		(1) - Metamorphic	one (2) Limestone	Sandstone	(1)
(3) Shale (4) Gravel					(3)



- 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

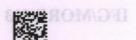
- (4) Thorn forests
- 149. Which of the following methods is used to estimate average precipitation over an area?
  - (1) Arithmetic mean method
- (2) Thiessen polygon method

(3) Isohyetal method

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

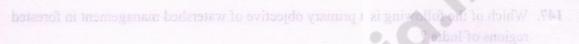


- (1) It decreases soil moisture by absorbing rainfall
- (2) It increases evaporation rates from the soil surface
- (3) It enhances soil moisture retention by reducing evaporation and promoting infiltration
- (4) It has no significant effect on soil moisture



S'ansh Moedo' a lo eace SPACE FOR ROUGH WORK on restevil to treating odd at . 241

- 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 governte hydroele tric power



- (1) Expansion of arosts frastructure
- (2) Soil and water constant to maintain ecological balance
  - (3) Promotion of industra il development
  - (4) Reduction of forest c wer for serfordage

148. Which Indian forest type is most effective in cloud in reception and moisture capture, contributing significantly to local hydrology?

- 1) Tropical dry deciduo s forests
- Montane cloud forest
- (4) Thomas

149. Which of the following m thods is used to estimate average precipitation of the following management and the following manageme

- (1) Anthmetic mean met od
- (2) Thiessen polygon meth

bodtem Istavdosl (8)

150. How does the presence of eaf litter in forested areas influence soil moisture dynamics?

- (1) It decreases soil mois ure by absorbing rainfall
- (2) It increases evaporati in rates from the soil surface
- (3) It enhances soil mois: we retention by reducing evaporation and promoting minimation
  - (4) If has no significant a fact on soil moisture

(A)