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APPSC FRO (M)

Previous Year Paper

(General Forestry-II) 04 Jun, 2025



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Enter the Registered Number

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HFG/MORF/504

2025

PAPER – IV

Robinster on the OMR Answer Sheet or

Question Booklet Sl. No.

Time: 150 Minutes

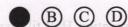
Max. Marks: 150

ZNOITJUSTENI or make any stray marks on the OMR

- 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:



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.



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.

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.
- 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., $2\frac{1}{2}$ 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.	What percentage of the true volume does the	quarter girth volume formula estimate?	回约
	(1) 100% (2) 75.8%	(3) 78.5% (4) 90%	24.4
		politernist (E)	
2.	Which of the following formulas best represe	ents the relationship between Form Factor and Volume	e ?
	(1) Volume = Form Factor × Basal Area ×		
	(2) Volume = Basal Area/Form Factor	(1) Kettaction in the ionosphere and urpospin	
	(3) Volume = Height × Form Factor	(2) Early's rotation	
	(4) Volume = Form Factor/Basal Area	(3) Weak satellar whals	
3.	Which formula is used for volume estimation	n in frustum-shaped trees?	
	(1) Smalian's formula	(2) Newton's formula	
	(2) Increment description (2) (3) Huber's formula (3) (4) Clinometers	(4) Geometric mean formula	
4.	What is the relationship between CAI and MA	Al for the optimum felling age of a tree?	
	(1) CAI is greater than MAI	(2) MAI is greater than CAI	
	(3) CAI and MAI are equal	(3) Density Under Parks (4)	
5.	What is the key advantage of using a wedge p	prism in point sampling?	
	(1) It measures soil moisture	(2) It estimates tree volume quickly	
	(3) It calculates chlorophyll content	(4) It determines tree root depth	
6.	In India, which remote sensing satellite provide forest mapping?	ides high-resolution imagery suitable for detailed What is the primary purpose of a yield table?	
	(2) To measure tree height TASIR (1)	(2) IRS Resourcesat satellite series	
	(4) To identify tree specied GE-TAZNI (E)	(3) To assess soil fertility 6-TASD (4)	
7.	What is the primary remote sensing technolog	egy employed by FSI for forest cover mapping?	犯数
_	(1) Synthetic Aperture Radar (SAR)	(2) Light Detection and Ranging (LiDAR)	
	(3) Satellite Imagery	(4) Thermal Infrared Imaging	
)		3	A)



(1) Doppler effect

	(3) Trilateration	(4) Time dilation	
9.	What is the main cause of GPS signal delay in	in the Earth's atmosphere?	
	(1) Refraction in the ionosphere and tropo	osphere	
	(2) Earth's rotation	Support State	
	(3) Weak satellite signals		
	(4) Sunspot activity		
10.	Which instrument is used to measure bark this	ickness?	
	(1) Bark Gauge	(2) Increment Borer	
	(3) Tree caliper	(4) Clinometers	
11.	What does "DUB" stand for in tree measurements	ment?	
	(1) Diameter Under Bark	(2) Depth Under Bark	
	(3) Density Under Bark	(4) Diameter Upper Branch	
12.	Which formula is used to calculate the quarter (D = diameter at GBH, h = length of the log).		
	(1) $V = (\pi D^2 h)/4$	(2) $V = (G^2h)/4$	
	(3) $V = (\pi D^2 h)/16$	(4) $V = (G^2h)/16$	
13.	What is the primary purpose of a yield table?	?	
	(1) To estimate timber volume over time	(2) To measure tree height	
	(3) To assess soil fertility	(4) To identify tree species	
14.	What is the most commonly used method for	measuring volume increment in standing trees?	
	(1) Tree height measurement	(2) Increment boring	218-04-0-
	(3) Dendrometer readings	(4) Leaf area analysis	
		4	(A)

8. Which principle does GPS technology primarily use to determine location?

(2) Triangulation

15. What is the main purpose of forest inventory?



- (1) To measure and classify forest resources
- (2) To estimate soil fertility
- (3) To count the number of fallen trees
- (4) To record tree species only

16. Which method of enumeration involves tallying all trees of a species above a specified diameter limit over an entire forest area?

(1) Sample enumeration

(2) Complete enumeration

(3) Stratified sampling

(4) Selective enumeration

17. Which sampling method is recommended for forest inventory in plains?

- (1) Topographical unit sampling
- (2) Random sampling

(3) Strip sampling

(4) Remote sensing

18. Sampling intensity in forest inventory refers to



- (1) The percentage of forest area included in the sample
- (2) The number of trees sampled per hectare
- (3) The height of trees included in the sample
- (4) The number of species counted

19. 1 hectare (ha) is equal to how many square meters (m^2) ?

- (1) $10,000 \text{ m}^2$

- (2) $1,000 \text{ m}^2$ (3) $5,000 \text{ m}^2$ (4) $4,000 \text{ m}^2$

20. Which of the following is a correct conversion between metric and British units?

(1) 1 foot = 50 cm

(2) 1 mile = 500 meters

(3) 1 kg = 0.5 pounds

(4) 1 yard = 0.9144 meters

21. What does the specific gravity of timber indicate?



- (1) The moisture content of the wood
- (2) The ratio of the density of wood to the density of water
- (3) The ability of wood to resist decay
- (4) The amount of resin present in the wood



22. The Normalized Difference Vegetation Index (NDVI) is widely used in forestry for



- (1) Estimating soil erosion rates
- (2) Assessing vegetation cover and health
- (3) Mapping forest road networks
- (4) Detecting illegal logging activities
- 23. Basal Area of a tree refers to
 - (1) Cross sectional area at base
 - (2) Cross sectional area at mid point of total height
 - (3) Cross sectional area at top height
 - (4) Cross sectional area at breast height

24.	Which of the	following is	very useful	in detecting and	mapping fores	t fires '
-----	--------------	--------------	-------------	------------------	---------------	-----------

(1) Visible sensors

(2) Thermal sensors

(3) Microwave sensors

- (4) None of these
- 25. At what height is Diameter at Breast Height (DBH) measured ?
 - (1) 1 meter

(2) 1.37 meters

(3) 2 meters

- (4) 1.5 meters
- 26. Which instrument is commonly used to measure DBH directly?
 - (1) Clinometer

(2) Tree caliper

(3) Hypsometer

- (4) Altimeter
- 27. What is the relationship between girth (G) and diameter (D) of a tree?
 - (1) $G = 2\pi D$

(2) $D = G \times \pi$

(3) $G = \pi/D$

- (4) $D = G/\pi$
- 28. When measuring trees on a slope, from which side should DBH be measured?



(1) Midpoint

(2) Any side

(3) Uphill side

(4) Downhill side

6



	(1)	Roundwood logs		(2)	Firewood stacks		
	(3)	Veneer logs		(4)	Pulpwood measure		
30.		m factor is defined as the ratio of					36. WL
	(1)	Tree height to tree volume					
	(2)	Tree girth to tree height			erasion	To reduce so	
	(3)	Tree bark thickness to its radius	rishteubn	i bas	o commercial	To harvest we	
	(4)	Tree volume to cylinder volume	e of the sa	me b	asal area and height	at is the sole mb	
31.	Volu	ume tables are based on which par	ameters?		(2) Moraucae		
21 <u>[1]</u>	(1)	Only tree height	noil house	(2)	Only tree girth		
	(3)	Tree girth and height			Tree crown width		
32.		most common method for estimated Direct measurement using a method GPS estimation	ting the he	ipe			
	(3)	Trigonometric method using a					
	(4)	Barometric method	(4) E			Vencer peelin	
33.	The	Mean Annual Increment (MAI) i	s calculate	ed as		ch process imp Seasoning	
	(1)	Total height divided by total vo		(2)	Current annual inc	rement plus to	
	(3)	Age divided by total volume	3 of wood 18 (3) C	(4)	Total volume divid	led by total age	42. V.II
34.	Whi	ich method is commonly used in s	ample enu	ımera	NOT significan? noi	ch factor does l	
	(1)	Quadrant sampling		(2)	Remote sensing		
	(3)	Complete tallying		(4)	Tree coring		
A)			87				(A)

29. In which type of wood measurement is a rectangular parallelepiped shape commonly used?



35.	What is the typical number of satellites required t and altitude) using GPS?	o determine an accurate 3D position (latitude, longitude)	ude
	(1) 2 (2) 3	(3) 4 (4) 5	
36.	What is the primary purpose of logging?		
	(1) To increase forest density		
	(2) To remove deadwood		
_	(3) To reduce soil erosion		
	(4) To harvest wood for commercial and inc	lustrial use	
37.	What is the scientific family of bamboo?	Successful (Successful)	
	(1) Fabaceae (2) Moraceae	(3) Rutaceae (4) Graminae	
38.	Tendu leaves, used for making beedis, are obtain	ned from which tree ?	狼
	(1) Diospyros melanoxylon	(2) Azadirachta indica	
	(3) Tectona grandis	(4) Mangifera indica	
39.	Which season is generally preferred for tree fell	ling to ensure better timber quality?	
	(1) Winter (2) Spring	(3) Monsoon (4) Summer	
40.	Which of the following is NOT a method of time	aber conversion?	
	(1) Charcoal production	(2) Sawn timber	
	(3) Veneer peeling	(4) Hewing	
41.	Which process improves the durability and usal	pility of timber by reducing moisture content?	
[(1) Seasoning (2) Logging	(3) Extraction (4) Preservation	
42.	Which of the following is a traditional method of	of wood preservation?	
	(1) Kiln drying (2) Chemical dipping	(3) Creosote treatment (4) Sand blasting	
43.	Which factor does NOT significantly affect the	firewood value of a tree species ?	
	(1) Moisture content	(2) Wood density of the real way the support of the control of the	
	(3) Combustion efficiency	(4) Leaf size	
		3	A)

44.	What is the main drawback of using firewood	as a fuel source?
	(1) High efficiency	(2) Easily available
	(3) High carbon emissions	(4) Renewable energy source
45.	What is the definition of Non-Wood Forest P	
	(1) Goods of biological origin other than v	wood derived from forests
	(2) Any product obtained from trees	
	(3) Only products derived from agroforest	
	(4) Only timber and firewood	
		55 What should you do for the son who is bleed
46.	Which of the following is NOT an example o	f Non-Wood Forest Produce (NWFP) ?
	(1) Bamboos and canes	(2) Teak and sal wood
	(3) Fibers and flosses	(4) Gums and resins
47.	Which method of wood preservation involves	s impregnating wood with chemicals under pressure?
	(1) Water seasoning (2) Kiln drying	(3) Pressure treatment (4) Air seasoning
48.	Which of the following woods is most comm	only used for railway sleepers ?
	(1) Teak (2) Sal	(3) Pine (4) Mango
49.	Which of the following plants is a major sour	
	(1) Butea monosperma	(2) Mallotus philippinensis
	(3) Acacia catechu	(4) Artocarpus lakoocha (1)
50.	The red dye extracted from Pterocarpus santa	linus is known as bridges around sa nwonk si sunil
ni	(1) Kamela (2) Santaline	(3) Arnotto (4) Cutch
51.	A crack originating from the center and external called (2) 20 compressions to 5 breaths	nding radially in one or opposite directions in timber is
	(1) Radial shake (2) Ring shake (3)	(3) Star shake (4) Heart shake
		nant buds show abnormal vigour is called
	(1) Twisted fiber (2) Waviness (8)	(3) Burr (72 (2) (4) Checks (1)
		(A)



53.	What is the primary goal of First Aid?	
	(1) To diagnose medical conditions	e or uses the majority it is
Γ	(2) To provide immediate care and prevent	t worsening of the condition
	(3) To conduct surgery on the victim	
	(4) To replace professional medical treatm	ent State of the s
54.	What does "ABC" stand for in First Aid?	
	(1) Airway, Breathing, Circulation	(2) Assess, Bandage, Compress
	(3) Alert, Breathe, Call	(4) Assistance, Bleeding, Care
55.	What should you do for a person who is ble	Larest .
	(1) Let the wound bleed freely to clean itse	46. Winch of the filence as
	(2) Apply direct pressure to the wound	
-	(3) Remove any embedded objects	
	(4) Use a tourniquet for all bleeding cases	
56.	What is the appropriate response for a chok	ing victim who cannot cough, breathe or speak?
	(1) Give them water to drink	(2) Have them lie down and elevate their legs
	(3) Perform the Heimlich maneuver	(4) Ask them to breathe deeply
57.	What should you do for a person who has fa	ainted?
	(1) Shake them vigorously	(2) Give them a strong-smelling substance
	(3) Make them walk around	(4) Lay them flat and elevate their legs
58.	What is the correct compression-to-breath readults?	atio for Cardiopulmonary Resuscitation (CPR) in
	(1) 30 compressions to 2 breaths	(2) 20 compressions to 5 breaths
	(3) 50 compressions to 1 breath	(4) 10 compressions to 1 breath
59.	What is the sum of the interior angles of a q	uadrilateral?
	(1) 180° (2) 270° (8)	(3) 360° (4) 90° (4)

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60.	Which of the following is a type of chain use	d in surveying?
	(1) Engineer's Chain	(2) Gunter's Chain
	(3) Revenue Chain	(4) All of the above
61.	What is a tie line used for in chain surveying	(d) (a) the compass with an object for
_	(1) To divide the survey area into parts	(2) To mark the boundary of the area
[(3) To check accuracy and locate details	(4) To measure vertical angles
62.	How long is a Gunter's chain?	(1) Only one of a sone (2) Sold work and one sin
	(1) 66 feet (2) 50 feet	(3) 30 feet (4) 100 feet
63	What is cross-staff used for in chain surveying	(4) It is less accurate than $\cos \alpha$ and $\cos \frac{1}{2}$
05.		
	(1) To set perpendicular offsets	(2) To measure distances
	(3) To measure angles	(4) To level the survey station
64.	Why is the measurement of angles or bearing	gs necessary in surveying?
		(a) T 1 1 1 1 1 1 1 1
	(1) To calculate distances more accurately	(2) To determine the direction of survey lines
	(1) To calculate distances more accurately (3) To find elevations	(2) To determine the direction of survey lines (4) To determine the slope of the land
65.	Year and the second	(4) To determine the slope of the land (1)
65.	(2) Road (Sound Reverse (Sound Property (Sound Reverse (Sound Reve	(4) To determine the slope of the land (1)
	(3) To find elevations The angle between the magnetic and true me (1) Azimuth (2) Dip	(4) To determine the slope of the land 1) ridian is known as (3) Declination and I (4) Offset stadW 27 constant testing of the land 1)
	(3) To find elevations The angle between the magnetic and true me (1) Azimuth (2) Dip	(4) To determine the slope of the land 1) ridian is known as (3) Declination (4) Offset bady (5) bearings in forest surveys ? tays to sample to strong gather and A (1) the bearings in forest surveys ? (2) Theodolite
	(3) To find elevations The angle between the magnetic and true me (1) Azimuth (2) Dip What is the main instrument used to measure	(4) To determine the slope of the land ridian is known as (3) Declination (4) Offset bearings in forest surveys? (2) Theodolite (4) GPS
66.	(3) To find elevations The angle between the magnetic and true me (1) Azimuth (2) Dip What is the main instrument used to measure (1) Prismatic compass (3) Dumpy level	(4) To determine the slope of the land ridian is known as (3) Declination (4) Offset bearings in forest surveys? (2) Theodolite (4) GPS
66.	(3) To find elevations The angle between the magnetic and true me (1) Azimuth (2) Dip What is the main instrument used to measure (1) Prismatic compass (3) Dumpy level	(4) To determine the slope of the land ridian is known as (3) Declination (4) Offset bearings in forest surveys? (2) Theodolite (4) GPS
66.	(3) To find elevations The angle between the magnetic and true me (1) Azimuth (2) Dip What is the main instrument used to measure (1) Prismatic compass (3) Dumpy level A Whole Circle Bearing (WCB) is measured	(4) To determine the slope of the land ridian is known as (3) Declination (4) Offset bearings in forest surveys? (2) Theodolite (3) Theodolite (4) GPS (4) GPS (5) Theodolite (6) GPS (7) Theodolite (8) GPS (9) Theodolite (1) GPS (1) GPS (2) Theodolite (3) Theodolite (4) GPS (5) Theodolite (6) GPS (7) Theodolite (8) GPS (9) Theodolite (9) Theodolite (10) Theodolite (11) Theodolite (12) Theodolite (3) Theodolite (4) GPS (5) Theodolite (6) GPS (7) Theodolite (8) Theodolite (9) Theodolite (10) Theodolite (11) Theodolite (12) Theodolite (3) Theodolite (4) GPS (4) GPS



68. What is the function of the "sight vane"?



- (1) To balance the compass needle
- (2) To measure angles accurately
- (3) To provide a reference for declination
- (4) To align the compass with an object for bearing measurement
- **69.** What is the main characteristic of a Plane Table Survey?
 - (1) Only office work is done
 - (2) Field work and office work are done simultaneously
 - (3) Only field work is done
 - (4) It is less accurate than other methods
- 70. Which method is used to find an unknown point by sighting it from two known positions?
 - (1) Radiation method

(2) Resection method

(3) Intersection method

(4) Traversing method

71. What does a topographical map primarily represent?



- (1) Earth's surface features
- (2) Road networks

(3) Political boundaries

(4) Underground water levels

- 72. What is a Contour Line?
 - (1) A line representing the shortest distance between two points
 - (2) A line connecting points of equal elevation
 - (3) A line indicating roads on a map
 - (4) A boundary line between two land parcels
- 73. What is the term for the vertical distance between two consecutive contour lines?



(1) Map Gradient

(2) Contour Index

(3) Slope

Contour Interval





74. What does the term "map scale" refer to ? who so

(1) The number of contour lines on a map

(2) The ratio between distances on the map and actual gr	ground distances
--	------------------

- (3) The ratio between actual distance on ground and arial distance
- (4) The ratio between actual distance on ground and bearing

	****		. 4			4.	-		-
75.	What	18	the	main	ingre	dient	ot	cement	'

(1) Silica

(2) Calcium carbonate

(3) Clay

(4) Iron oxide

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76. What is the most commonly used mortar in construction?

(1) Cement mortar

(2) Mud mortar

(3) Lime mortar

(4) Surki mortar

77. The ideal gradient for a forest road should be around

(1) 1:2

(2) 1:10

(3) 1:20

(4) 1:50

78. What is the primary purpose of a dumpy level in surveying?



- (1) Determining elevations and leveling surfaces
- (2) Measuring horizontal angles
- (3) Measuring vertical angles
- (4) Calculating distances directly require laneiten to stoopers as an experience of the control of the control

79. Which part of the bridge transfers the load to the ground?

- (1) Deck
- (2) Girders
- (3) Railings

(4) Abutments

80. What is the purpose of headwalls in culverts? of tanodascreaming and



- (1) To provide a smooth entry and exit for water
- (2) To block the flow of water
- (3) To increase the width of the road on the state of the model of the road of
- (4) To support the bridge structure

13



81.	Which materia	al is commonly used in pipe	culverts?	
	(1) Brick	(2) Cast iron	(3) Timber	(4) Cement blocks
82.	What is the pu	rpose of a catch pit in a cul-	vert ?	
	(1) To suppo	rt road traffic	(2) To store rainwate	r and a series (8)
	(3) To reduce	e sediment flow	(4) To allow pedestri	an crossing
83.	Forest and wil	dlife were brought under co	oncurrent list as per	
	(1) 42 nd Ame	endment	(2) 40 th Amendment	
	(3) 44 th Ame	ndment	(4) 48 th Amendment	
0.4	Б '4		3	
84.		ufactured from wood is a	goods.	(4) All of the chave
	(1) Consuma	ble (2) Transferable	(3) Economic	(4) All of the above
85.	Benefit-Cost I	Ratio (BCR) is mostly used to	to evaluate	
	(1) Financial	performance of employees		4
	(2) Tax polic	ies of a Government	Song roand a roa	
	(3) Economi	c feasibility of a project		
	(4) None of t	these		LL Measuring in a
86.	200	gory of land is exempte trategic linear projects of na		
	(1) Land wit	hin 50 km of international b	orders	
	(2) Land wit	hin 100 km of international	borders	
	(3) Land wit	hin 25 km of international b	orders	
	(4) Land wit	hin 10 km of international b	orders	
87.	What is the m	ain purpose of the Forest Co	onservation Act. 1980 ?	rengeror (1)
		d forest cover	energy sen	
	(2) To preven	nt deforestation and regulate	the diversion of forest land	d for non-forest purposes
	(3) To promo	ote commercial forestry	Organia (a.)	isadhi gast ()
	(4) To recogn	nize the rights of forest dwe	llers	
			14	(4)

- 88. Which authority's prior approval is required before using forest land for non-forest purposes?
 - (1) State Government

(2) Local Panchayat has larged bilay direction

(3) District Collector

(4) Central Government

- 89. What is 'Cognizable Offence'?
 - (1) An offence where Police must get Court permission to arrest
 - (2) An offence that is only punishable with a fine
 - (3) An offence where Police can arrest without prior approval
 - (4) A civil wrong
- 90. What is a 'Non-Bailable Offence'?
 - (1) An offence where bail is automatically granted
 - (2) An offence where bail is not a right but can be granted by a Court
 - (3) An offence that does not require a trial
 - (4) A minor crime
- 91. Who is considered a 'Public Servant' under IPC?



(4) The transition zone between two ecosystems

- (1) A person lawfully authorized to discharge public duties on behalf of the Government
- (2) Only officials who hold elected positions in Government
- (3) Only Police Officers and Judges
- (4) Any person working in a Government office, regardless of duties of a dold W
- 92. Which international organization ensures that international trade in wild animals and plants does not threaten their survival?



- (1) International Union for Conservation of Nature (IUCN)
- (2) World Wildlife Fund (WWF)
- (3) Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)
- (4) United Nations Educational, Scientific and Cultural Organization (UNESCO)



93. What is the act of stopping a person, restraining their movement, and detaining them with valid legal authority called? (2) Detention (3) Conviction (4) Arrest (1) Custody 94. What is the legal notice issued by a Court ordering an individual to appear or produce a document at a specified time and place? (4) Warrant (2) Bail (3) Charge (1) Summon 95. As per Evidence Act, what does "evidence" include? (1) Both oral statements and documentary evidence, including electronic records (2) Only oral statements made by witnesses (3) Only documents produced before the Court (4) Only physical objects related to the case 96. As per the Andhra Pradesh Forest (Amendment) Act, 2016, which of the following is classified as a 'scheduled tree'? (1) Teak (Tectona grandis) (2) Rosewood (Dalbergia latifolia) (3) Red Sanders (Pterocarpus santalinus) (4) Sandalwood (Santalum album) 97. Which of the following best describes an ecological niche? (1) The physical space an organism occupies (2) The position of an organism in an ecosystem (3) The interaction between different species in an ecosystem (4) The transition zone between two ecosystems

98. What is the term for the area that serves as a transition zone between two ecosystems?

(2) Ecological niche (3) Habitat

(1) Ecotone



(1) The seasonal shedding of leaves by	(1) Protection of measurements
(2) Disposition of vegetation in superpo-	
(3) The migration patterns of forest anim	mals
(4) The process of nutrient cycling between	•
100. Which of the following ecosystems typically per unit area?	ally exhibits the highest Net Primary Productivity (NPP
(1) Boreal forest	(2) Temperate grassland
(3) Tropical rainforest	(4) Desert scrub
101. In a ecosystem, how is the pyramid of nu	
(1) Elliptical (2) Upright	(3) Circular (4) Inverted
102. Any recognizable stage in plant succession	回数案
(1) Pioneer Wildlimeson (1)	
(3) Climax Rustard Indian Bustard	(4) Secondary community mobile (1)
03 In desert ecosystems which adaptation is	commonly observed in plants to minimize water loss?
(1) Large, broad leaves	(2) Extensive root system
(3) Thin cuticles	(4) High stomatal density
(2) Kanha Tiger Reserve	
04. In marine ecosystems, which of the follow	wing is considered the primary source of energy?
(1) Zooplankton	(2) Phytoplankton
(3) Benthic organisms	(4) Decomposers make a fine fine fine (4)
05. Which of the following is the only floating	ng National Park in the world, located in India?
(1) Keibul Lamjao National Park	10135
(3) Bhitarkanika National Park	(4) Nokrek National Park
1 . 1053 0	ry of protected areas under the Wildlife Protection
(1) National Parks	(2) Wildlife Sanctuaries
(1) National Parks	VIOSIND 2 ISOTHURIO TIMING STRUCKIOS VSG L (E)
(3) Biosphere Reserves	(4) Community Reserves

99. Which of the following best describes 'stratification' in a forest ecosystem?



107. What does Article 48A of the Indian Constitution deal with?



- (1) Protection of monuments
- (2) Protection and improvement of the environment, forests and wildlife
- (3) Promotion of international peace
- (4) Right to Education
- 108. According to the IUCN Red List, a species is classified as Vulnerable (VU) when it meets which of the following criteria?
 - (1) Population decline of less than 50% over the last 10 years
 - (2) Population decline of more than 50% over the last 10 years
 - (3) Population decline of more than 70% over the last 10 years
 - (4) Population decline of more than 90% over the last 10 years
- 109. Critically endangered avian species which is found only in Eaglenest Wildlife Sanctuary
 - (1) Jordon Couser

(2) Great Indian Bustard

(3) Green Pigeon

(4) Bugun Liocichla

- 110. In which National Park in India, Cheetah was reintroduced in September 2022?
 - (1) Kuno National Park

(2) Kanha Tiger Reserve

(3) Bannerghatta National Park

(4) Simlipal National Park

111. Example of free floating hydrophyte is



(1) Nympaea

(2) Eichorna

(3) Vallisnerna

- (4) Limnophila heterophylla
- 112. In a food chain, what is the role of detritivores?



- (1) They produce energy through photosynthesis
- (2) They recycle nutrients by breaking down dead organic matter
- (3) They consume primary producers directly
- (4) They compete with herbivores for food



Which type of ecological pyramid is always	upright, regardless of ecosystem type ? all all
(1) Pyramid of biomass our sebol (E)	(2) Pyramid of numbers
(3) Pyramid of energy	(4) Inverted pyramid
Which hormone plays a crucial role in regula	
(1) Insulin (2) Melatonin	(3) Adrenaline (4) Dopamine
Which part of the brain acts as the primary b	piological clock in mammals ?
(1) Hypothalamus (8)	(2) Pineal gland
(3) Suprachiasmatic nucleus (SCN)	(4) Cerebellum
Maximum number of animals that can graze of causing adverse effect is called as	on a specific area over a given period of time without
(1) Exponential growth model	(2) Carrying capacity
(3) Hardy-Weinberg equilibrium	(4) Trophic cascade model
control of damage to forests by man, animals factors	, insects, fungi, injurious plants and adverse climatic
	(4) Forest biology
What is the primary characteristic of forest d (1) Gradual decline in forest biodiversity	U7. Which place is known as "Mangrove Genetic
SATO BERRATE INCLESSE OCTUBIO VERINARIO DE	
(4) Beauveria bassiana	(3) Bacillus thurmysensis
limate change mitigation?	?: 129. How does forest regeneration contribute to c
	(2) Acacia catechu
	(4) Rubia cardifolia (2) By emitting oxygen into the atmosphere
Which of the following is a biotic factor that	can lead to forest decline ? See 1999 VE (E)
(1) Soil erosion (2) Ozone pollution	(3) Insect outbreaks (4) Drought
01	(A)
	(1) Pyramid of biomass (3) Pyramid of energy Which hormone plays a crucial role in regular (1) Insulin (2) Melatonin Which part of the brain acts as the primary be (1) Hypothalamus (3) Suprachiasmatic nucleus (SCN) Maximum number of animals that can graze causing adverse effect is called as (1) Exponential growth model (3) Hardy-Weinberg equilibrium Branch of forestry which is concerned with control of damage to forests by man, animals factors (1) Forest Ecology (3) Forest protection What is the primary characteristic of forest definition of the following plant yields fruit dyes (1) Lawsonia inermis (3) Bixa orellana Which of the following is a biotic factor that (1) Soil erosion (2) Ozone pollution



100	-		(m) 4	
121.	In fine textured soils	, the cation exchange ca	apacity is	TIS. Whole we see W. 2011
	(1) Low	(2) High	(3) Moderate	(4) None
122	Name the disease the	at affected Sandalwood	nlantations in Kerala	
122.			3 500 00 0	(4) Cuilra diagona
	(1) Leaf spot	(2) Root rot	(3) Leaf blight	(4) Spike disease
123.	Which type of forest peat?	fire burns the organic n	naterial beneath the fore	st floor, including humus and
	(1) Surface fire	(2) Ground fire	(3) Crown fire	(4) Subsurface fire
124.	Which forest type in	India is most susceptib	ele to severe fires?	
	(1) Evergreen fores	ts	(2) Semi-evergreen	forests
	(3) Montane temper	rate forests	(4) Dry deciduous	forests
125.	Which of the follows forest pest managem		e derived from plant sou	
	(1) DDT	(2) Neem extracts	(3) Heptachlor	(4) Chlordane
126.	The real time forest	fires are visualized thro	ugh which sensors used	by Vana Agni Portal?
	(1) MODIS	(2) SNPP-VIIRS	(3) Both (1) and (2	(4) None of these
127.	Which place is know	n as "Mangrove Genet	ic Paradise" of world?	
	(1) Bhitarkanika	Y sloc	(2) Coringa	
	(3) Sundarbans		(4) Australian Grea	at Barrier
128.	Which biocontrol ag	ent has been used in In-	dia to manage the teak of	lefoliator (Hyblaea puera) ?
	(1) Trichogramma	spp.	(2) Tobacco Mosai	c Virus
	(3) Bacillus thuring	giensis	(4) Beauveria bass	iana
129.	_		climate change mitigation	on?
	(1) By increasing the	he Earth's albedo effect		
	(2) By emitting oxy	ygen into the atmospher	re	
2	(3) By sequestering	g atmospheric CO ₂ in bi	iomass and soils	
_	(4) By reducing the	e need for fossil fuels	AB AB AB AB AB	

130.	Which forests possess highest carbon density? Sansaib doldward autosward of salsat and the salsa
XXII	(1) Mangroves (2) Dry deciduous (3) Alpine forests (4) Temperate forests
131.	Which pollutants effects stomatal pores, stomatal frequency and chloroplast structure in plants?
	(1) Sulphur dioxide (2) Carbon dioxide (3) Carbon monoxide (4) Fluoride
132.	What is the primary objective of CAMPA in India? (1) To promote urban development projects
	(2) To manage funds for compensatory afforestation
	(3) To regulate pollution control measures
	(4) To oversee wildlife conservation exclusively
133.	How does the presence of mycorrhizal fungi benefit trees in a forest ecosystem?
	(1) By fixing atmospheric nitrogen (2) By decomposing leaf litter
	(3) By increasing absorption area of the roots (4) By deterring herbivorous insects
134.	What is the primary role of worker bees in a honeybee colony?
	(1) Laying eggs (2) Mating with the queen
	(3) Foraging for nectar and pollen (4) Defending the hive
135.	Which dance performed by honeybees communicates the location of food sources to other members of the colony?
	(1) Round dance (2) Waggle dance (3) Circle dance (4) Spiral dance
136.	Which species of silkworm is primarily responsible for producing Tussar silk in India?
	(1) Bombyx mori time blive to tolk out it vale (2) Antheraea mylitta poss ob slot tadW . All
	(3) Samia cynthia ricini (4) Antheraea assamensis q an avro? (1)
137.	Which of the following is non-venomous snake?
	(1) Indian Cobra (2) Krait (3) Russels Viper (4) Rock Python
(A)	21 (A)



138.	Γhe	tsetse	fly	is	a	vector	for	which	disease	?
------	-----	--------	-----	----	---	--------	-----	-------	---------	---

(2) Kala-azar

(3) Dengue

- (4) Malaria
- 139. The Kino gum is produced by which tree species?
 - (1) Azadirachta indica

(1) Sleeping sickness

(2) Anogeissus latifolia

(3) Dalbergia latifolia

(4) Pterocarpus marsupium

- 140. Which is the major host of lac insect?
 - (1) Butea monosperma

(2) Zizuphus mauritiana

(3) Scheichera oleosa

(4) All of the above

141. Which type of plant diseases does Trichoderma viride help to control?



(1) Bacterial infections

- (2) Viral diseases
- (3) Soil-borne fungal diseases
- (4) Nutrient deficiency diseases
- 142. India is a part of which realm?
 - (1) Neotropical realm

(2) Oriental realm

(3) Ethopian realm

- (4) Palae-artic realm
- 143. Which system in the human body is primarily affected by a viper bite?
 - (1) Nervous system

(2) Respiratory system

(3) Blood vascular system

(4) Excretory system

144. What role do secondary plant compounds play in the diet of wild animals?



- (1) Serve as primary energy sources
- (2) Act as toxins or deterrents affecting feeding behavior
- (3) Provide essential vitamins
- (4) Enhance digestibility of food

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145.	Which of the following features helps birds re	educe body weight for flight?	
	(1) Presence of heavy bones	(2) Pneumatic (hollow) bones	
	(3) Absence of feathers	(4) Presence of teeth	
146.	How do frugivorous (fruit-eating) birds aid in (1) By pruning trees	forest regeneration?	
Γ	(2) By dispersing seeds through their droppin	ngs	
L	(3) By creating nesting sites		
	(4) By reducing competition among plant spe	ecies	
147.	Vultures are crucial to the ecosystem primarily	y because they	
	(1) Pollinate flowers		
	(2) Disperse seeds	(9)	
	(3) Scavenge carcasses, preventing disease sp	pread	
•	(4) Prey on small mammals		
148.	The migratory route of birds to Kolleru lake is	s called as	
46	(1) East Asian Flyway	(2) Australasian Flyway	
**	(3) Central Asian Flyway	(4) None of the above	
149.	Which hormone plays a key role in osmoregul	lation during anadromous fish migration ?	
	(1) Insulin	(2) Cortisol	
	(3) Thyroxine	(4) Adrenaline	
150.	Which of the following is an example of a zoo	onotic disease ?	
	(1) Rabies	(2) Diabetes	
	(3) Hypertension	(4) Asthma	







SPACE FOR ROUGH WORK