

PROVISIONAL ANSWER KEY

Question 6/2025/OL

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Department Kerala Forest Development Corporation Limited

Question1:-Consider the statements for south west monsoon in India,

Statement I : A large proportion of annual rainfall received in Indian is due to south west monsoon.

Statement II : Kerala receives rainfall through Arabian sea current.

Statement III : Tamil Nadu receives heavy rains from south west monsoons.

Choose the correct statement/s :

A:-Statement I, II, and III

B:-Only Statement II and III

C:-Only statement I and III

D:-Only Statement I and II

Correct Answer:- Option-D

Question2:-Consider the statements for controlled fire used as tool in forest management,

Statement I : Natural regeneration teak, sal and deodar in moist regions is induced by controlled fire.

Statement II : Used as tool in moist deciduous and evergreen forests for obtaining regeneration.

Statement III : Controlled fire helps to increase the availability of calcium and potassium.

Choose the correct statement/s :

A:-Statement I, II and III

B:-Only Statement II and III

C:-Only Statement I and III

D:-Only Statement I and II

Correct Answer:- Option-A

Question3:-Consider the statements for factors of site,

Statement I : It may be called as habitat factors or locality factors.

Statement II : It includes climatic, edaphic, physiographic, economic and biotic factors.

Statement III : All of these factors affect the forest directly.

Choose the correct statement/s :

A:-Statement I, II and III

B:-Statement I and III

C:-Statement II and III

D:-Statement I only

Correct Answer:- Option-D

Question4:-Consider the following Assertion and Reason for Advective frost

Assertion : Advective frost is the frost produced by cold air brought from elsewhere.

Reason : This frost occurs in southern part of India which visits Indian from the North East India.

A:-Assertion is true and Reason is false

B:-Both Assertion and Reason are true

C:-Both Assertion and Reason are wrong

D:-Both Assertion and Reason are true but Reason is not the correct explanation of Assertion

Correct Answer:- Option-A

Question5:-Consider the following statements for definition of Forest

Statement I : Forest is defined as an area set aside for the production of timber and other forest produce or maintained under woody vegetation for certain indirect benefits which it provides.

Statement II : Forest is an area wholly or partly covered with woody growth, managed primarily to regulate stream flow, prevent erosion, hold sifting sand or to exert any other beneficial influence.

Choose the correct statement/s :

A:-Only Statement I

B:-Only Statement II

C:-Both Statements I and II

D:-None of the above

Correct Answer:- Option-A

Question6:-Consider the following Assertion and Reason for Girdling

Assertion : Girdling is usually done in trees which are more than 20 cm in diameter.

Reason : It is easier and less expensive to fell trees smaller than this diameter.

A:-Assertion is true and Reason is false

B:-Both Assertion and Reason are true and Reason is the correct explanation of Assertion

C:-Both Assertion and Reason are wrong

D:-Both Assertion and Reason are true but Reason is not the correct explanation of Assertion

Correct Answer:- Option-B

Question7:-Consider the following statements for pruning

Statement I : Dry pruning is the pruning of dead branches.

Statement II : Green pruning is the pruning done by forester without waiting for nature to do it in dense natural crop.

A:-Both Statements are correct

B:-Statement I is correct and Statement II is wrong

C:-Statement I is wrong and Statement II is correct

D:-Both the Statements are wrong

Correct Answer:- Option-B

Question8:-Consider the following statements :

Statement I : The increase in diameter of the stem of a tree from the base upwards is called taper.

Statement II : Forking is a situation where a stem has more than one leader and it is considered as desirable character for timber production.

Statement III : Part of the stem which is free from branches is called bole.

Statement IV : Stem is the principal axis of a plant.

Statement V : Buttresses are common in *Acrocarpus* and *Bombax* spp.

Choose the incorrect statement/s :

A:-Statement I and V

B:-Statement I, II and III

C:-Statement II and III

D:-Statement IV and V

Correct Answer:- Option-B

Question9:-Consider the following Assertion and Reason for Tapering of trees.

Assertion : Taper is defined as the decrease in diameter of the stem of a tree or of log from the base upwards.

Reason : The pressure of wind is concerned in the lower one third of the crown and is conveyed to the lower parts of stem, increasing with increasing length.

A:-Assertion is true and Reason is false

B:-Both Assertion and Reason are true and Reason is the correct explanation of Assertion

C:-Assertion is false and Reason is true

D:-Both Assertion and Reason are false

Correct Answer:- Option-B

Question10:-Consider the following Statements

Statement I : Cultural operations are carried out for the benefit of a forest crop by creating best possible conditions of growth.

Statement II : Tending is carried out not only to promote proper development of a crop but also to assist or complete existing regeneration and to minimize the after effects of felling damage.

A:-Statement I is correct and Statement II is incorrect

B:-Statement I is incorrect and Statement II is correct

C:-Both Statements are correct

D:-Both Statements are incorrect

Correct Answer:- Option-D

Question11:-Consider the following Statements

Statement I : The act of replacing the old crop with younger ones, either naturally

or artificially is called regeneration.

Statement II : The new growth that developed in a crops before felling is called as advanced regeneration.

A:-Statement I is correct

B:-Only Statement II is correct

C:-Both Statements I and II are correct

D:-Both Statements are incorrect

Correct Answer:- Option-C

Question12:-Consider the following Statements

Statement I : Artificial regeneration is the renewal of forest crop by sowing, planting or other artificial means.

Statement II : Artificial regeneration includes only reforestation.

A:-Statement I is correct

B:-Only Statement II is correct

C:-Both Statements I and II are correct

D:-Both Statements are incorrect

Correct Answer:- Option-A

Question13:-Consider the following Statements for Thinning

Statement I : Thinning is defined as a felling made in a mature stand for the purpose of improving the growth and forms of the tree.

Statement II : Thinning is applicable to both mixed and uneven aged stands.

A:-Statement I is correct

B:-Only Statement II is correct

C:-Both Statements I and II are correct

D:-Both Statements are incorrect

Correct Answer:- Option-D

Question14:-Consider the following Statements for Shelter Wood-strip system

Statement I : Shelter Wood strip system is defined as a silviculture system in which regeneration felling are done in the form of strips successively from one side of the compartment, progressing with the direction of the wind.

Statement II : This is system was evolved from the uniform system for protective reasons.

A:-Statement I is correct

B:-Only Statement II is correct

C:-Both Statements I and II are correct

D:-Both Statements are incorrect

Correct Answer:- Option-B

Question15:-Consider the following Statements for improvement felling

Statement I : Improvement felling has been defined as removal of less valuable trees in a crop with the interest of better growth of more valuable individuals.

Statement II : Improvement felling usually prescribed in forests which are in poor

conditions due to uncontrolled excessive grazing and fire.

A:-Statement I is correct

B:-Statement II is correct

C:-Both Statements I and II are correct

D:-Both Statements I and II are incorrect

Correct Answer:- Option-B

Question16:-Choose the correct answer :

Statement I : Shelter wood system involves gradually removing mature trees to create opening for regeneration.

Statement II : Clear cutting system involves the removal of all trees in designated area.

A:-Statement I is correct

B:-Statement II is correct

C:-Both Statements I and II are correct

D:-Both Statements I and II are incorrect

Correct Answer:- Option-C

Question17:-Choose the correct answer :

Statement I : Bamboo requires felling cycle of 10-15 years.

Statement II : Bamboo should be cut at height of 15 cm leaving at least with one node.

A:-Statement I is correct

B:-Statement II is correct

C:-Both Statements I and II are correct

D:-Both Statements I and II are incorrect

Correct Answer:- Option-B

Question18:-Consider the following Statements for spacing

Statement I : Espacement in a plantation controls the number of plants in an unit area and their uniform distribution.

Statement II : Optimum spacing is the one which tends to achieve the full occupancy of the site for production of desired sized of material.

A:-Statement I is correct

B:-Only Statement II is correct

C:-Both Statements I and II are correct

D:-Both Statements are incorrect

Correct Answer:- Option-C

Question19:-Consider the following Statements for thinning

Statement I : Ordinary thinning is also called as rule of thumb, stick thinning and it is carried out in the early stages when the canopy differentiation has not taken place.

Statement II : Crown thinning also called as low thinning, German thinning and thinning from below.

Based on the above Statements, select the correct answer :

A:-Both Statement I and Statement II are true

B:-Both Statement I and Statement II are false

C:-Statement I is false, but Statement II is true

D:-Statement I is true, but Statement II is false

Correct Answer:- Option-B

Question20:-Consider the following Statements for pattern of planting

Statement I : Triangular planting accommodates 2 time more plants than square planting.

Statement II : Quincunx planting is a method of planting trees or crops in a geometrical arrangement where four plants form the corners of a square, and a fifth plant is placed at the centre.

A:-Both Statement I and Statement II are true

B:-Both Statement I and statement II are false

C:-Statement I is false, but Statement II is true

D:-Statement I is true, but Statement II is false

Correct Answer:- Option-C

Question21:-Consider the Statements for seed production areas,

Statement I : Production of better quality seed in comparison to customary collection, especially in adaptation, bole and crown characteristics and pest resistance.

Statement II : Systematic seed procurement from known geographic sources.

Statement III : Easy access for repetitive jobs such as forecasting seed crops, seed collection and controlling insects and disease.

Choose the correct statement/s :

A:-I, II and III

B:-Only II and III

C:-Only I and III

D:-Only I and II

Correct Answer:- Option-A

Question22:-Consider the Statements for seed orchard,

Statement I : Production of genetically improved seeds of forest tree species.

Statement II : Availability of seed at frequent intervals.

Statement III : Facilitating certification of quality of the seed from the orchard.

Choose the correct statement/s :

A:-I, II and III

B:-Only II and III

C:-Only I and III

D:-Only I and II

Correct Answer:- Option-A

Question23:-Consider the Statements for types of dormancy,

Statement I : Secondary dormancy : occurs due to unfavourable conditions.

Statement II : Innate dormancy : occurs when the seed faces conditions for which it is not acclimatised.

Statement III : Seed coat imposed dormancy : caused by the hard seed coat.

Choose the correct Statment/s :

A:-I, II and III

B:-Only II and III

C:-Only I and III

D:-Only I and II

Correct Answer:- Option-C

Question24:-Consider the Statements for seed stimulation,

Statement I : Seed stimulation involves hastening or increasing pace of germination by artificial means.

Statement II : Light stimulates germination of sensitive seeds combined with temperature.

Statement III : Electrical stimuli is provided to seeds for hastening germination.

Choose the correct Statement/s :

A:-I, II and III

B:-Only II and III

C:-Only I and III

D:-Only I and II

Correct Answer:- Option-A

Question25:-Consider the Statements for seed coat imposed dormancy,

Statement I : Impermedability to moisture.

Statement II : Mechanical resistance to the expansion of the growing embryo.

Statement III : Resistance or dormancy due to the chemical substance that may be present.

Choose the correct Statement/s :

A:-I, II, and III

B:-Only II and III

C:-Only I and III

D:-Only I and II

Correct Answer:- Option-A

Question26:-After amending Section 2(7) of Indian Forest Act, 1927 during 2017

A:-Bamboo in non-forest area is considered as a tree

B:-Bamboo in forest area is not considered as a tree

C:-Bamboo grown in any place is considered as a tree

D:-Bamboo in non-forest area is not considered as a tree

Correct Answer:- Option-D

Question27:-Wood shavings used in the preparation of infused drinking water in Kerala

A:-Agarwood

B:-Sappanwood

C:-Sandalwood

D:-Red sanders

Correct Answer:- Option-B

Question28:-Species amenable for plywood production is/are

i. *Melia dubia*

ii. *Tectona grandis*

iii. Eucalyptus

iv. Casuarina

A:-i only

B:-i and ii

C:-i and iii

D:-i, iii and iv

Correct Answer:- Option-C

Question29:-The most preferred shade tree species in tea plantation of Western Ghats, Southern India is

A:-*Cedrus deodara*

B:-*Tectona grandis*

C:-*Eucalyptus teriticornis*

D:-*Grevillea robusta*

Correct Answer:- Option-D

Question30:-Species suitable for Sustainable Aviation Fuel (SAF) generation is/are

i. *Pongamia pinnata*

ii. *Gmelina arborea*

iii. *Azadirachta indica*

A:-i only

B:-i and ii

C:-i and iii

D:-ii and iii

Correct Answer:- Option-C

Question31:-Match the following :

a. *Pinus roxburghii* 1. Resins

b. *Ailanthus triphysa* 2. Tannins

c. *Terminalia chebula* 3. Match splints

A:-a-1, b-3, c-2

B:-a-3, b-2, c-1

C:-a-2, b-3, c-1

D:-a-3, b-1, c-2

Correct Answer:- Option-A

Question32:-Which state got India's first CER (Carbon Emission Reductions) for cooperative afforestation programme under CDM project ?

A:-Tamil Nadu

B:-Assam

C:-Rajasthan

D:-Haryana

Correct Answer:- Option-D

Question33:-Calculate the basal area per ha if the number of tallied trees was 25 and the BAF of the wedge prism used is 3.

A:- $5m^2$

B:- $75m^2$

C:- $28m^2$

D:-None of the above

Correct Answer:- Option-B

Question34:-Stump analysis is used to assess the relation of

A:-Height and diameter

B:-Height, diameter and volume

C:-Age and growth

D:-Diameter and volume

Correct Answer:- Option-C

Question35:-_____ is a measure of the relative productive capacity of a site for a particular species.

A:-Site quality

B:-Site productivity

C:-Site index

D:-None of the above

Correct Answer:- Option-A

Question36:-Choose the wrong statement/statements regarding diameter measurement

i. When the tree is forked above the breast-height, it is counted as one tree.

ii. When the tree is forked below the breast-height, it is counted as one tree.

iii. When the tree is forked above the breast-height, each fork should be treated as though it were a separate tree.

iv. When the tree is forked below the breast-height, each fork should be treated as though it were a as separate tree.

A:-i and iii only

B:-i, and iv only

C:-ii and iii only

D:-i, ii and iv

Correct Answer:- Option-C

Question37:-Ratio of the volume of a tree or its part to the volume of a cylinder having the same length and cross section as the tree

A:-Form factor

B:-Absolute volume of the cylinder

C:-Form quotient

D:-None of the above

Correct Answer:- Option-A

Question38:-Which of the following sampling method is random sampling method ?

A:-Stratified sampling

B:-Sequential sampling

C:-Selective sampling

D:-Systematic sampling

Correct Answer:- Option-D

Question39:-Which of the following is correctly matched ?

A:-Hypsometer - height

B:-Altimeter - atmospheric pressure

C:-Relaskop - temperature

D:-Clinometer - density

Correct Answer:- Option-A

Question40:-Select the incorrect statement regarding increment.

A:-CAI is the increment that a tree put on from origin upto that age at which the tree is cut

B:-MAI is the increment which a tree puts on a single year

C:-Both 1 and 2

D:-Neither 1 nor 2

Correct Answer:- Option-C

Question41:-The place where India's first Teak plantation was raised during the 1840s

A:-Nilambur

B:-Palakkad

C:-Wayanad

D:-Munnar

Correct Answer:- Option-A

Question42:-Benefit cost ratio for any project is acceptable if BCR is

A:-BCR = 0

B:-BCR = 1 or > 1

C:-BCR < 1

D:-BCR between = 0 to -1

Correct Answer:- Option-B

Question43:-Allelochemicals are released from the donor plant by

- i. Runoff and leachate from leaves and stem of plants
- ii. Volatile phytotoxic compounds from the green parts of a plant
- iii. Phytotoxic compounds released from the plant roots

A:-i and iii

B:-i and ii

C:-ii and iii

D:-i, ii and iii

Correct Answer:- Option-D

Question44:-With reference to wind breaks and shelterbelts, which of the following statements is/are correct ?

- i. They reduce the wind velocity.
- ii. Mostly planted in coastal and arid regions.

A:-i only

B:-ii only

C:-Both i and ii

D:-Neither i nor ii

Correct Answer:- Option-C

Question45:-Characteristics of multipurpose trees for agroforestry are

- i. Good leaf litter making ability
- ii. Productive capacity
- iii. Shallow taproot system
- iv. Ability to assist in nitrogen fixation

A:-ii, iii and iv

B:-i, ii and iv

C:-i and ii

D:-All the above

Correct Answer:- Option-B

Question46:-Match the following :

Ecosystem services of different agroforestry systems

- | | |
|-------------------------|------------------------------|
| a. Provisional services | 1. Recreational value |
| b. Regulating services | 2. Food, fibre, fodder |
| c. Cultural services | 3. Biodiversity conservation |
| d. Supporting services | 4. Carbon sequestration |

A:-a-2, b-4, c-1, d-3

B:-a-2, b-4, c-3, d-1

C:-a-4, b-2, c-1, d-3

D:-a-3, b-1, c-4, d-2

Correct Answer:- Option-A

Question47:-India, at the 26th session of the UNFCCC (COP 26) in November, 2021, announced its target to achieve net zero by

A:-2070

B:-2030

C:-2060

D:-2050

Correct Answer:- Option-A

Question48:-Which of the following statements is/are correct regarding homegarden agroforestry system ?

- i. Multi-species production
- ii. Multi-tiered canopy structure
- iii. Low species diversity
- iv. High species diversity

A:-i and ii only

B:-i, ii and iii

C:-i, ii and iv

D:-i and iv only

Correct Answer:- Option-C

Question49:-It was the British who coined the name 'Silent Valley' (of Silent Valley National Park) in 1847 because of a perceived absence of

A:-Frogs

B:-Tigers

C:-Waterfalls

D:-Cicadas

Correct Answer:- Option-D

Question50:-The recent COP29 UN Climate Change Conference was held at

A:-Dubai, the United Arab Emirates

B:-Baku, Azerbaijan

C:-Madrid, Spain

D:-Lima, Peru

Correct Answer:- Option-B

Question51:-Study the following statements and identify the correct combination of statements.

1. Parasites are organisms that live in or on different kind of organism from which it gets some or all its nourishment.

2. Those animals which survive wide range of temperatures are called pikilothermal.
3. Maximum number of individuals of a given species that can be supported by given environment is known as carrying capacity.
4. *Loranthus* is an epiphyte.

Choose the correct answer :

- A:-1 true, 2 true, 3 false, 4 true
 B:-1 false, 2 false, 3 false, 4 true
 C:-1 true, 2 false, 3 true, 4 true
 D:-1 true, 2 false, 3 true, 4 false

Correct Answer:- Option-D

Question52:-Consider the following pairs :

- | Disease | - | Damage |
|---------------------------|---|----------------------------|
| i. Wilt | - | Dropping of foliage |
| ii. Canker | - | Necrotic lesion on cambium |
| iii. Atrophic symptoms | - | Drying of apical bud |
| iv. Hypertrophic symptoms | - | Witches broom |

How many pairs given above are correctly matched ?

- A:-Only one pair
 B:-Only two pairs
 C:-Only three pairs
 D:-All four pairs

Correct Answer:- Option-C

Question53:-With reference to "Biological control", consider the following terms

- i. Conservation of existing natural enemies.
- ii. Use of natural enemies such as parasitoids and predators to control pest insects.
- iii. Use of microbes in controlling pests.
- iv. Use of neem based chemical such as Azadirachtin is found to be the good insecticide.

Which of the above statements are correct ?

- A:-Only (i and ii)
 B:-Only (i, iii and iv)
 C:-Only (i, ii and iii)
 D:-All the above (i, ii, iii and iv)

Correct Answer:- Option-D

Question54:-With reference to ecosystem productivity, consider the following statements :

- i. Primary productivity is associated with the producers which are autotrophic and to a greater extent the chemosynthetic microorganisms.
- ii Gross Primary Productivity (GPP) refers to the total rate of photosynthesis including the organic matter used up in respiration during the measurement period.
- iii. Secondary productivity refers to both autotrophs and heterotrophs.

iv. Net Primary Productivity (NPP) is the rate of storage of organic matter in plant tissues in excess of the respiratory utilization by plants during the measurement period.

Which of the above statements are correct ?

A:-Only (i and ii)

B:-Only (ii and iv)

C:-Only (iii and iv)

D:-All the above (i, ii, iii and iv)

Correct Answer:- Option-B

Question55:-With reference to Integrated Pest Management (IPM) consider the following statements :

i. It helps in keeping the pest numbers below the harmful levels instead of their eradication.

ii. Delays the development of horizontal and vertical resistance.

iii. Minimizes the residue hazards of pesticides in soil.

iv. It helps in reducing the environmental pollution.

Which of the above statement are correct ?

A:-Only (i and ii)

B:-Only (i, iii and iv)

C:-Only (i, ii and iii)

D:-All the above (i, ii, iii and iv)

Correct Answer:- Option-D

Question56:-Consider the following Pairs

Trees species	Major disease
i. <i>Santalum album</i>	- Spike disease
ii. <i>Tectona grandis</i>	- Leaf skeletonizer
iii. <i>Casuarina junghuhniiana</i>	- Stem wilt
iv. <i>Eucalptus</i> spp.	- Heart rot

How many pairs given above are correctly matched ?

A:-Only one pair

B:-Only two pairs

C:-Only three pairs

D:-All four pairs

Correct Answer:- Option-C

Question57:-Which of the following factors are responsible for encroachment ?

i. Absence of clear demarcation of forest boundary.

ii. Absence of clear policy of state governments.

iii. Stringent implementation of forest laws.

iv. Early detection of encroachment cases.

Which of the above statements are correct ?

A:-Only (i and ii)

B:-Only (i, iii and iv)

C:-Only (i, ii and iii)

D:-All the above (i, ii, iii and iv)

Correct Answer:- Option-A

Question58:-Match List - I with List - II :

List - I

List - II

- | | |
|------------------|--|
| 1. Creeping fire | I. Spreads through dominant trees |
| 2. Ground fire | II. Burns under growth |
| 3. Surface fire | III. Burns ground cover |
| 4. Crown fire | IV. Burns deeper layer of organic material |
| | V. Spreads slowly over the ground with low flame |

Choose the correct answer from the options given below :

A:-1-V, 2-III, 3-II, 4-I

B:-1-IV, 2-II, 3-I, 4-V

C:-1-III, 2-IV, 3-V, 4-I

D:-1-II, 2-I, 3-IV, 4-III

Correct Answer:- Option-A

Question59:-Consider the following statements :

Assertion : Preventive measures of forest fires are much better than remedial measures in order to reduce the damages to forests due to rampant forest fires in India.

Reason : Preventive measures such as creating public awareness, taking goodwill of the local people and legislative measures will prevent or at least chances of occurrence of forest fire in India.

A:-Both Assertion and Reason are true and Reason is the correct explanation of the Assertion

B:-Assertion is true, but reason is false

C:-Both Assertion and Reason are true

D:-Both Assertion and Reason are true but the reason is not the correct explanation of the Assertion

Correct Answer:- Option-A

Question60:-Consider the following pairs :

Disease

Causal agent

- | | |
|-----------------------|------------------------------------|
| i. <i>Damping off</i> | - <i>Pseudomonas solanacearum</i> |
| ii. <i>Wilt</i> | - <i>Rhizoctonia solani</i> |
| iii. <i>Stem wilt</i> | - <i>Trichosporium vesiculosum</i> |
| iv. <i>Root rot.</i> | - <i>Ganoderma lucidum</i> |

How many pairs given above are correctly matched ?

A:-Only one pair

B:-Only two pairs

C:-Only three pairs

D:-All four pairs

Correct Answer:- Option-B

Question61:-Consider the following pairs

Basis of yield regulation**Method of yield regulation**

- | | | |
|----------------------------|---|-----------------------|
| 1. Volume of growing stock | - | Von Mantel's method |
| 2. Area and volume | - | Hartig's method |
| 3. Increment | - | Howard's method |
| 4. Volume and increment | - | French method of 1883 |

How many pairs given above are correctly matched ?

A:-Only one pair

B:-Only two pairs

C:-Only three pairs

D:-All four pairs

Correct Answer:- Option-B

Question62:-With reference to the rotation of maximum volume production, consider the following statements :

- i. It is the rotation through which species retains satisfactory vigor of growth.
- ii. It is the rotation which yields maximum quantity of timber per unit area.
- iii. It is applicable to pulp and paper industries.
- iv. This rotation is not of any relevance to economic forestry.

Which of the above statements are correct ?

A:-Only (i and ii)

B:-Only (ii and iii)

C:-Only (iii and iv)

D:-All the above (i, ii, iii and iv)

Correct Answer:- Option-B

Question63:-Match List - I with List - II :

List - I**List - II**

- | | |
|----------------------------|---------------------|
| 1. Stock maps | I. 1 : 50000 scale |
| 2. Management map | II. 1 : 15000 scale |
| 3. Working plan map | III. 1 : 5000 scale |
| 4. Regeneration survey map | IV. 1 : 60000 scale |
| | V. 1 : 25000 scale |

Choose the correct answer from the options given below :

A:-1-I, 2-III, 3-V, 4-II

B:-1-IV, 2-II, 3-I, 4-V

C:-1-III, 2-IV, 3-II, 4-I

D:-1-II, 2-I, 3-IV, 4-III

Correct Answer:- Option-D

Question64:-Consider the following statements :

Assertion : Forest management in India is constrained due to diverse ecosystem services such as provisioning, regulatory, supporting and aesthetic services from natural forests.

Reason : Forests provide both tangible and intangible benefits, as a result it becomes very difficult for the Working Plan Officer (WPO) to prioritize the management objectives.

A:-Assertion is true, but Reason is false

B:-Both Assertion and Reason are true and Reason is the correct explanation of the Assertion

C:-Both Assertion and Reason are true

D:-Both Assertion and Reason are true but the Reason is not the correct explanation of the Assertion

Correct Answer:- Option-B

Question65:-With respect to "Sustained Yield" Management, consider the following statements :

- i. Sustained yield is dynamic in nature.
- ii. Concept of Market Equilibrium needs a thorough understanding of demand, supply and price of a commodity.
- iii. It ensures continuous supply of raw material to wood based industries.
- iv. Net harvest of timber will be equal to net increment of forest plantations.

Which of the above statement(s) is/are correct ?

A:-Only (i, ii and iii)

B:-Only (i and ii)

C:-Only (iii and iv)

D:-All the above (i, ii, iii, iv)

Correct Answer:- Option-C

Question66:-Study the following statements and identify the correct combination of statements :

1. Wood shrinkage starts before the fibre saturation point.
2. Warping in wood is caused by unequal shrinkage or expansion across the grain.
3. Wood density is the weight of unit volume of wood whereas, specific gravity is the ratio of density of wood to that of water.
4. The resistance offered by wood to twisting forces acting in the opposite direction is called as resistance to torsion.

Choose the correct answer :

A:-1 false, 2 false, 3 true, 4 true

B:-1 false, 2 false, 3 false, 4 true

C:-1 true, 2 false, 3 true, 4 true

D:-1 true, 2 false, 3 true, 4 false

Correct Answer:- Option-A

Question67:-Consider the following pairs :

- | Composite wood | Characteristics |
|-----------------------|------------------------------------|
| 1. Plywood | - Cross-banded construction |
| 2. Laminated wood | - Grains are perpendicular to face |
| 3. Fibre Board | - Made from agricultural waste |
| 4. Sandwich board | - It has core of heavier material |

How many pairs given above are correctly matched ?

A:-Only one pair

B:-Only two pairs

C:-Only three pairs

D:-All four pairs

Correct Answer:- Option-B

Question68:-With reference to "Wood seasoning", consider the following statements

- i. It secures proper penetration of wood preservatives.
- ii. It reduces the risk of wood defects like shakes, splits and cracks.
- iii. It increases the weight of wood.
- iv. It is the unregulated removal of wood moisture using the solar kilns.

Which of the above statements are correct ?

A:-Only (i and ii)

B:-Only (i, iii and iv)

C:-Only (i, ii and iii)

D:-All the above (i, ii, iii and iv)

Correct Answer:- Option-A

Question69:-Match List - I with List - II :

List - I

1. Rayon fibre
2. Acidic Process of pulping
3. Pulp bleaching
4. Alkaline process of pulping

List - II

- I. Calcium bisulphite
- II. Sodium hydroxide
- III. Calcium hypochlorite
- IV. Alpha cellulose
- V. Calcium carbonate

Choose the correct answer from the option given below :

A:-1-I, 2-III, 3-V, 4-II

B:-1-IV, 2-I, 3-III, 4-II

C:-1-III, 2-IV, 3-V, 4-I

D:-1-II, 2-I, 3-IV, 4-III

Correct Answer:- Option-B

Question70:-Consider the following statements :

Assertion : Lowry and Rueping process of wood preservation are superior to other methods and they are most widely used methods of wood preservation.

Reason : These processes aim at minimum penetration of the preservatives with a minimum of net absorption resulting in considerable saving in the cost of chemicals.

A:-Assertion is true, but Reason is false

B:-Both Assertion and Reason are true and Reason is the correct explanation of the Assertion

C:-Both Assertion and Reason are true

D:-Both Assertion and Reason are true but the Reason is not the correct explanation of the Assertion

Correct Answer:- Option-A

Question71:-Consider the following pairs :

Uses of wood

Suitable tree species

- i. Aircraft timber - *Abies pindrow*
- ii. Ship building - *Tectona grandis*

- iii. Matchsticks - *Populus deltodes*
- iv. Railway sleepers - *Shorea robusta*

How many pairs given above are correctly matched ?

A:-Only one pair

B:-Only two pairs

C:-Only three pairs

D:-All four pairs

Correct Answer:- Option-D

Question72:-Which of the following statement is/are correct about improve wood ?

- i. Laminated wood and particle board are the types of improve wood.
- ii. Improved woods are usually chemically modified to improve the strength and durability.
- iii. Heat stabilized wood reduces the hygroscopicity of improved wood.
- iv. Laminated wood is impregnated with synthetic resin and compressed insecticide.

Choose the correct answer :

A:-Only (i and ii)

B:-Only (ii and iii)

C:-Only (i, ii and iii)

D:-All the above (i, ii, iii and iv)

Correct Answer:- Option-B

Question73:-Which of the following statement is/are correct about Nanotechnology in wood ?

- i. It has gained lot of importance for value addition and enhancing the performance of wood.
- ii. It helps in protecting the wood from weathering and biodegradation.
- iii. Nanoparticle treated wood is UV resistant.
- iv. ASCU is the best nanomaterial which has been widely used.

Choose the correct answer :

A:-Only (i and ii)

B:-Only (ii and iii)

C:-Only (i, ii and iii)

D:-All the above (i, ii, iii and iv)

Correct Answer:- Option-C

Question74:-Which of the following statement is/are correct about wood saccharification ?

- i. Wood waste contains 50-65% carbohydrates in the form of cellulose and hemicellulose.
- ii. It is the removal extracellular substances from wood.
- iii. Sugars derived from wood saccharification could be used as feed for livestock.
- iv. Product of wood saccharification could be used in pulp and paper industry.

Choose the correct answer :

A:-Only (i and ii)

B:-Only (i and iii)

C:-Only (i, ii and iii)

D:-All the above (i, ii, iii and iv)

Correct Answer:- Option-B

Question75:-Study the following statements and identify the correct combination of statements.

1. Violins and guitars are usually made of wood from *Tectona grandis* and *Canarium strictum*.

2. *Pongamia pinnata* and *Madhuca latifolia* are suitable for pencil making.

3. *Salix alba* is the widely used species for sports goods and more particularly, for cricket bats.

4. *Dendrocalamus strictus* is the hallow bamboo used widely in construction.

Choose the correct answer :

A:-1 false, 2 false, 3 true, 4 true

B:-1 false, 2 false, 3 false, 4 true

C:-1 true, 2 false, 3 true, 4 false

D:-1 true, 2 false, 3 true, 4 false

Correct Answer:- Option-C

Question76:-The average performance of the progeny of an individual when it is mated with a number of individual is referred to as

A:-General combining ability

B:-Specific combining ability

C:-Selection differential

D:-Heritability

Correct Answer:- Option-A

Question77:-A clonal seed orchard which is roughed (culled) and improved based on the progeny test results is referred to as

A:-First generation seed orchard

B:-Seed production area

C:-1.5 generation seed orchard

D:-Improved seed orchard

Correct Answer:- Option-C

Question78:-This is the only type of selection that can be used in natural stands of plantations where the parentage is unknown

A:-Sib selection

B:-Mass selection

C:-Pedigree selection

D:-Family selection

Correct Answer:- Option-B

Question79:-Trees that have proven to be genetically superior by means of genetic testing programs and recommended for use in mass production of seeds or vegetative propagules is called

A:-Plus tree

B:-Candidate tree

C:-Elite tree

D:-Check tree

Correct Answer:- Option-C

Question80:-A group of plants of similar genotype that occupy a specific ecological niche is called

A:-Seed source

B:-Geographical race

C:-Provenance

D:-Ecotype

Correct Answer:- Option-D

Question81:-Eucalyptus oil is commercially produced from

A:-*Eucalyptus globulus*

B:-*Eucalyptus tereticornis*

C:-*Eucalyptus grandis*

D:-*Eucalyptus camaldulensis*

Correct Answer:- Option-A

Question82:-Which among the following is an example of a monopodial (single-stemmed) bamboo ?

A:-*Dendrocalamus strictus*

B:-*Phyllostachys pubescens*

C:-*Bambusa textilis*

D:-*Bambusa bambos*

Correct Answer:- Option-B

Question83:-Fibre used extensively for making elephant harness is extracted from

A:-*Sterculia urens*

B:-*Sterculia foetida*

C:-*Sterculia colorata*

D:-*Sterculia villosa*

Correct Answer:- Option-D

Question84:-Agar oil is extracted from

A:-*Santalum album*

B:-*Acacia arabica*

C:-*Aquilaria agallocha*

D:-*Canarium strictum*

Correct Answer:- Option-C

Question85:-*Cutch* and *Katha* are extracted from

A:-*Acacia catechu*

B:-*Acacia mearnsii*

C:-*Acacia nilotica*

D:-*Acacia mangium*

Correct Answer:- Option-A

Question86:-Which among the following is an endangered and endemic species of bat seen in the Western Ghats ?

A:-Flying Fox

B:-Salim Ali Fruit Bat

C:-Wroughtons Freetailed Bat

D:-Lesser Mouse-tailed Bat

Correct Answer:- Option-B

Question87:-Which Section of Wildlife Protection Act prohibit hunting ?

A:-Section 11

B:-Section 10

C:-Section 9

D:-Section 12

Correct Answer:- Option-C

Question88:-The average weight of the micro-chip inserted on to the wild animals should not exceed _____ of the body weight.

A:-5%

B:-10%

C:-20%

D:-15%

Correct Answer:- Option-B

Question89:-Wallace's system of zoogeography was based on

A:-Angiosperms

B:-Mammals

C:-Birds

D:-Vertebrates

Correct Answer:- Option-D

Question90:-Which among the following is the formula to estimate the wild animal population using the line transect method ?

A:-D = $nf(\theta)/4L$

B:-D = $n f(\theta)/3L$

C:-D = $n f(\theta)/2L$

D:-D = $nf(\theta)/1.5L$

Correct Answer:- Option-C

Question91:-Shifting of forests and wildlife from state list to concurrent list was done in

A:-1993

B:-1976

C:-2005

D:-1952

Correct Answer:- Option-B

Question92:-The government publishes a notification in the gazette, whenever it is proposed to constitute any land a reserved forest as per which Section of Kerala Forest Act ?

A:-Section 14

B:-Section 27

C:-Section 4

D:-Section 17

Correct Answer:- Option-C

Question93:-Which of the following article provides a constitutional provision on forests and wildlife ?

A:-45A

B:-50A

C:-52A

D:-48A

Correct Answer:- Option-D

Question94:-Indian State of Forest Report (ISFR) is published once in how many years ?

A:-Two

B:-Five

C:-Four

D:-Ten

Correct Answer:- Option-A

Question95:-The last amendment to the Indian Biodiversity Act was made in

A:-2006

B:-2002

C:-2020

D:-2023

Correct Answer:- Option-D

Question96:-Which schedule in the Wildlife (Protection) Act, 1972 afford the highest level of protection to wildlife ?

A:-Schedule II

B:-Schedule I

C:-Schedule VI

D:-Schedule IV

Correct Answer:- Option-B

Question97:-The latest Forest Policy of India was enunciated in the year

A:-2004

B:-1988

C:-1954

D:-2000

Correct Answer:- Option-B

Question98:-Where was the 2024 United Nations Biodiversity Conference of the Parties (COP 16) held ?

A:-Cali, Colombia

B:-Montreal, Canada

C:-Kunming, China

D:-New Delhi, India

Correct Answer:- Option-A

Question99:-As per the Kerala Forest Act, under definition of forest produce, which of the following is not a forest produce ?

A:-Timber brought from private land

B:-Material brought from forest land

C:-Reeds brought from the forest land

D:-Honey brought from private land

Correct Answer:- Option-D

Question100:-Chairperson of National Green Tribunal shall be

A:-A person who has been a Judge of High Court

B:-A person who is a Chief Justice of High Court

C:-A person who has been a Judge of Supreme Court

D:-A person who has sufficient experience in environment related cases

Correct Answer:- Option-C