

FINAL ANSWER KEY

Question 21/2025/OL

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Department Kerala Forest Development Corporation Limited

Question1:-*Hyblea purea* is an insect pest of

A:-Teak

B:-Sandal

C:-Sal

D:-Eucalyptus

Correct Answer:- Option-A

Question2:-In _____, and especially with shade tolerant species, the early rate of height growth may be extremely slow and only accelerated when the tree is released from overhead shade.

A:-Unevenaged plantation

B:-Even aged plantations

C:-Irregular forest

D:-Normal forest

Correct Answer:- Option-C

Question3:-One of the following species has been found to be very effective in reclamation of Saline-Alkaline soils in Rajasthan is

A:-*Tamarindus indica*

B:-*Tamarix articulata*

C:-*Albizia odoratissima*

D:-*Albizia lebbek*

Correct Answer:- Option-B

Question4:-A more or less stable community that is with the environment is called _____ community.

A:-Coloniser

B:-Seral

C:-Pioneer

D:-Climax

Correct Answer:- Option-D

Question5:-Species which occupies freshly formed soil is known as

- A:-Seral species
- B:-Pioneer species
- C:-Climax species
- D:-Pre-climax species

Correct Answer:- Option-B

Question6:-In shelterwood system of management, annual coupe is equivalent to

- A:-Felling series
- B:-Coupe
- C:-Block
- D:-Periodic block

Correct Answer:- Option-D

Question7:-As per Forest Survey of India (2023), the area under Forests and tree cover in India is

- A:-78.01 m ha.
- B:-82.74 m ha.
- C:-62.80 ha.
- D:-64.01 m ha.

Correct Answer:- Option-B

Question8:-Restocking of blank areas in an artificially regenerated stand with fresh planning is

- A:-Beating up
- B:-Replanting
- C:-Rejuvenation
- D:-Burlaping

Correct Answer:- Option-A

Question9:-Identify the odd one in the following

- A:-Cleaning
- B:-Singling
- C:-Soil working
- D:-Thinning

Correct Answer:- Option-C

Question10:-Tropical Dry Evergreen Forests are found in

- A:-Karnataka
- B:-Tamil Nadu
- C:-Kerala
- D:-Goa

Correct Answer:- Option-B

Question11:-The upper limit of the altitude beyond which trees are not found is known as

A:-Ecotone

B:-Fire line

C:-Savannaha

D:-Tree line

Correct Answer:- Option-D

Question12:-Thinning which stimulates CAI in light demanders is,

A:-Heavy thinning

B:-C-grade thinning

C:-Crown thinning

D:-Mechanical thinning

Correct Answer:- Option-B

Question13:-Succession which starts on marshy or water logged areas is known as

A:-Lithosere

B:-Psammosere

C:-Hydrosere

D:-Aquasere

Correct Answer:- Option-C

Question14:-In teak, the first thinning is called

A:-Ordinary thinning

B:-Elite thinning

C:-Mechanical thinning

D:-Crown thinning

Correct Answer:- Option-C

Question15:-Natural regeneration of pioneering species takes place on the following site

A:-Partially exposed site

B:-Site with thick canopy

C:-Site with adequate shade

D:-Totally exposed site

Correct Answer:- Option-D

Question16:-In general, the area of the nursery should be _____ percentage of the total area of the plantation.

A:-1.0 to 2.0

B:-0.25 to 0.50

C:-0.5 to 1.0

D:-0.025 to 0.05

Correct Answer:- Option-B

Question17:-A plantation of 10,000 trees has been established with an espacement of 2 m × 2 m and later it has been subjected to two mechanical thinning. The number of trees that could be retained after two mechanical thinning is

A:-5000

B:-2500

C:-1250

D:-7500

Correct Answer:- Option-B

Question18:-Most of the commercial plantations of Eucalyptus in the recent plantations are worked under

A:-The clear felling System followed by Artificial regeneration

B:-The Shelter Wood Coppice System

C:-The Simple Coppice System

D:-The Selection System

Correct Answer:- Option-C

Question19:-The Silvicultural System which is followed for the extraction of bamboo in India is

A:-The Selection System

B:-The Coppice System

C:-The Culm Selection System

D:-The Horse shoe System

Correct Answer:- Option-C

Question20:-Giant evergreen forests found in Western Ghats are the examples of

A:-Edaphic climax

B:-Climatic climax

C:-Biotic climax

D:-Topographic climax

Correct Answer:- Option-B

Question21:-The term elite tree refers to

A:-A tree that has been recommended for production or breeding following grading

B:-A tree that has been selected among candidate tree

C:-A tree that has been proven to be superior by means of progeny testing

D:-A tree against which a selected tree is graded

Correct Answer:- Option-C

Question22:-Orthodox seeds can be stored safely at a seed moisture content of

A:-0-4%

B:-18-20%

C:-8-10%

D:-28-30%

Correct Answer:- Option-C

Question23:-B5 medium is attributable to

A:-Murashige and Skoog

B:-Nitsch and Nitsch

C:-Lloyd and McCown

D:-Gamborg

Correct Answer:- Option-D

Question24:-_____ is the chemical used for determining the seed viability.

A:-Triphenyl Tetrazolium chloride

B:-Triiodo Benzoic acid

C:-Ethylene Diamine Tetraacetic Acid

D:-Pentachloro nitrochlorine

Correct Answer:- Option-A

Question25:-The swollen base of a stem axis enclosed by dry scale like leaves is called

A:-Bulb

B:-Corm

C:-Tuber

D:-Rhizome

Correct Answer:- Option-B

Question26:-Which of the following is correctly matched?

- i. Red wattle - *Acacia meansii*
- ii. Blue wattle - *Acacia linifolia*
- iii. Black wattle - *Acacia monticola*
- iv. Silver wattle - *Acacia dealbata*

A:-i and ii

B:-iv only

C:-iii only

D:-ii and iii

Correct Answer:- Option-B

Question27:-Which of the following is commonly known as blue pine?

A:-*Pinus wallichiana*

B:-*Pinus radiata*

C:-*Pinus roxburghii*

D:-*Pinus banksiana*

Correct Answer:- Option-A

Question28:-*Dalbergia sissoo* is a

A:-Moderate frost resistant

B:-Frost resistant

C:-Moderate frost hardy

D:-Frost hardy

Correct Answer:- Option-D

Question29:-Most suitable silvicultural system of deodar in hilly terrain for control of soil erosion is

A:-Clear felling system

B:-Shelterwood system

C:-Selection system

D:-Coppice of two rotation

Correct Answer:- Option-C

Question30:-Which of the following plant part of *Cedrus deodara* is used for essential oil extraction?

A:-Roots

B:-Cones

C:-Leaves

D:-Wood

Correct Answer:- Option-D

Question31:-Plants that flowers and produce fruit once in their lifetime, and then die is called as

A:-Monocarpic plant

B:-Polycarpic plant

C:-Bicarpic plant

D:-Psammophytic plant

Correct Answer:- Option-A

Question32:-Die back is most common phenomenon in

A:-*Santalum album*

B:-*Shorea robusta*

C:-*Pterocarpus santalinus*

D:-*Tectona grandis*

Correct Answer:- Option-B

Question33:-The common riverine tree species found in India which plays a key role in stabilizing riverbanks and maintaining the ecosystem is

A:-*Tamarindus indica*

B:-*Hardwickia binata*

C:-*Terminalia arjuna*

D:-*Butea monosperma*

Correct Answer:- Option-C

Question34:-Rattans belongs to the family

A:-Bambusoideae

B:-Gramineae

C:-Poaceae

D:-Calamoideae

Correct Answer:- Option-D

Question35:-Gum kino is obtained from

A:-*Pterocarpus dalbergioides*

B:-*Pterocarpus marsupium*

C:-*Pterocarpus macrocarpus*

D:-*Pterocarpus santalinus*

Correct Answer:- Option-B

Question36:-The value of Fractional Quality classes run from

A:-0 to 2

B:-0.0 to 0.02

C:-0.1 to 0.2

D:-0.0 to 0.2

Correct Answer:- Option-D

Question37:-Vertical point sampling is attributable to

A:-Smalian

B:-Metzger

C:-Hirata

D:-Huber

Correct Answer:- Option-C

Question38:-The proportion of error involved in use of caliper and tape is

A:-15 : 1

B:-10 : 1

C:-25 : 1

D:-21 : 1

Correct Answer:- Option-D

Question39:-Pick out the random sampling method

A:-Point sampling

B:-Selective sampling

C:-Systematic sampling

D:-Sequential sampling

Correct Answer:- Option-A

Question40:-_____ is the height of the bole from the ground level upto the point where diameter over bark is 20 cm.

A:-Bole height

B:-Commercial bole height

C:-Standard timber bole height

D:-Tree height

Correct Answer:- Option-C

Question41:-Study the following statements and identify the correct combination of statements?

1. Agrisilviculture system includes agricultural crops including shrubs and vines and perennial trees.
2. Silvopastoral system is followed in prairies and steppes.
3. Agrosilvopastoral system comprise of pasture, animals and woody perennials
4. Homegardens of Kerala are the best example of alley cropping system.

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

Question42:-Match List-I with List-II

List-I

1. Intermittent
2. Coincident
3. Concomitant
4. Interpolated

List-II

- I. Coffee under shade trees
- II. Annual crops under coconut
- III. Homegardes
- IV. Taungya system
- V. Black pepper and rubber

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-D

Question43:-Consider the following pairs :

Agroforestry Services	Example
i. Provisioning	- Genetic resources
ii. Regulatory	- Seed dispersal
iii. Supporting	- Nutrient cycling
iv. Cultural	- Climate regulation

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

Question44:-With reference to "Allelopathy", consider the following terms

i. It's a biological phenomenon in which organisms produce one or more bio-chemicals that

affect the plant growth.

ii. Allelochemicals are not good bio-communicators

iii. Allelochemicals can be primary or secondary metabolites

iv. Phenolic compounds are the best example for allelochemicals.

Which of the above statements are correct?

A:-Only (i & ii)

B:-Only (i, iii & iv)

C:-Only (i, ii and iii)

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

Correct Answer:- Option-B

Question45:-With reference to Phytoremediation, consider the following statements :

i. It's a cost effective plant based approach of environmental remediation.

ii. Refers to the use of plants and associated microbes to reduce the toxic effects of

contaminants in the environment

iii. Rhizofiltration is one of the phytoremediation techniques

iv. Phytoextraction involves uptake of toxins from soil

Which of the above statements are correct?

A:-Only (i & ii)

B:-Only (ii & iv)

C:-Only (iii and iv)

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

Correct Answer:- Option-D

Question46:-With reference to Carbon Capture and Sequestration, consider the following statements :

- i. During the photosynthesis plants absorb atmospheric carbon dioxide and release oxygen
- ii. Pre-combustion capture capture CO_2 is done in fertilizer and chemical industries
- iii. Oceans are the largest sinks of CO_2
- iv. Blue carbon refers to the carbon stored in mangrove forests.

Which of the above statements are correct?

A:-Only (i & ii)

B:-Only (i, iii & iv)

C:-Only (i, ii and iii)

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

Correct Answer:- Option-D

Question47:-Consider the following pairs :

Diagnosis and Design

Basic questions to answer :

(D and D) stages

- | | | |
|----------------------------|---|--------------------------------|
| i. Pre-diagnostic | - | What is the land use system |
| ii. Diagnostic | - | How well does the system work |
| iii. Design and evaluation | - | How to improve the system |
| iv. Implementation | - | Research and development needs |

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

Question48:-Which of the following tree characters are suitable for energy plantations?

- i. Wood must have high calorific value
- ii. Ability to coppice prolifically
- iii. Easy establishment and minimum care and management
- iv. Multipurpose use for increased unit land productivity

Which of the above statements are correct?

A:-Only (i & ii)

B:-Only (i, iii & iv)

C:-Only (i, ii and iii)

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

Correct Answer:- Option-D

Question49:-Consider the following statements :

Assertion : Different agroforestry systems provide diverse ecosystem services and its

considered as one of the important options for mitigation of climate changes.

Reason : Agroforestry systems provide food, fodder, fuel and small timber to farmers which

will help them in improving their livelihood.

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-D

Question50:-Consider the following pairs :

Agroforestry practice	Description
i. Alley cropping	- Woody species on hedges
ii. Protein bank	- Trees for honey production
iii. Aquaforestry	- Trees lining fish ponds
iv. Shelter belts and wind breaks	- Trees around farmlands

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

Question51:-Consider the following pairs

Disease	Causal agent
1. Rust disease	- <i>Puccini spp.</i>
2. Root rot	- <i>Ganoderma lucidum</i>
3. Pink disease	- <i>Corticium salmonicolour</i>
4. Needle blight	- <i>Dothistroma septosporum</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-D

Question52:-With reference to the forest fires in India, consider the following statements :

i. Temperature and wind are the most important factors in creating forest fire environment

ii. Forest fire cannot occur unless there is hazard or inflammable material in the forest

iii. Fire spreads very fast when travelling up a hill slope but its speed slows down when

moving down the slope

iv. Every green forests in India are more prone for forest fires.

Which of the above statements are correct?

A:-Only (i & ii)

B:-Only (ii & iii)

C:-Only (i, ii & iii)

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

Correct Answer:- Option-C

Question53:-Match List-I with List-II

List-I

1. Parasite
2. Epiphytes
3. Obnoxious weed
4. Woody climber

List-II

- I. *Dendrobium nobile*
- II. *Loranthus* and *Eupatorium*
- III. *Bauhinia vahli*
- IV. *Lantana camera*
- V. *Imperata* and *Dicanthium*

Choose the correct answer from the options given below :

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

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

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

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

Correct Answer:- Option-A

Question54:-With respect to "Integrated Pest Management" in forest trees, consider the following statements :

- i. Silvicultural control involve the measures which regulate the numbers of different insect species by silvicultural practices
- ii. *Trichoderma* and *Pseudomonas* spp. are the best bio-control agents
- iii. Mechanical control refers to those measures which control the number of insect species by crown thinning
- iv. Chemical control refers to use of parasites and predators which feed on insect pest.

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

A:-Only (i, ii & iii)

B:-Only (i & ii)

C:-Only (iii & iv)

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

Correct Answer:- Option-B

Question55:-With respect to "Abiotic Diseases", consider the following statements :

- i. The death resulting from excessively high temperature usually occurs due to coagulation of protoplasmic proteins.
- ii. Temperature between 35°C to 40°C may not kill the plant but it balances between respiration and photosynthesis
- iii. Excessive high temperature results in stem canker
- iv. Heat hardiness in trees is induced by low water and high sugar content.

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

A:-Only (i, ii & iii)

B:-Only (i & ii)

C:-Only (iii & iv)

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

Correct Answer:- Option-D

Question56:-Study the following statements and identify the correct combination of statements :

1. Biotic pressure on natural forests does not imbalance soil health and ecosystem functioning.
2. Most of the forest fires in India are due to natural causes such as lightning, rubbing of dry bamboos.
3. Horizontal resistance reduces the initial amount of inoculum from which epidemic begins.
4. Encroachment may be defined as an act of seizing the possession of some forest land

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-B

Question57:-Which of the following statement is/are correct about Nursery diseases?

- i. Nursery diseases can be controlled by raising nursery in good sites, and fungicidal treatment of seed and soil before and after sowing.
- ii. Damping off is the most serious of all the nursery diseases.
- iii. Heart rot disease occur at the seeding and sapling stage.
- iv. Chemical control is the only solution for disease management in nurseries.

Choose the correct answer :

A:-Only (i & ii)

B:-Only (ii & iii)

C:-Only (i, ii and iii)

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

Correct Answer:- Option-A

Question58:-With Reference to "tree disease management", consider the following statements.

- i. Adoption of cultural practices such as deep ploughing, weeding and soil solarisation does not aid in pest control.
- ii. Biological control involves the use of microorganisms, parasites and predatory

for pest

control in forests.

iii. It involves use of high amount of chemicals and pesticides.

iv. Ecological engineering emphasizes the use of mechanical, physical and cultural practices

for effective habitat manipulation to enhance biological control.

Which of the above statements are correct?

A:-Only (i & ii)

B:-Only (ii & iv)

C:-Only (i, ii and iii)

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

Correct Answer:- Option-B

Question59:-Match List-I with List-II

List-I

1. Bacterial disease
2. Fungal disease
3. Viral disease
4. Disease due to abiotic stress

List-II

- I. Frost injuries
- II. Yellowing of leaf
- III. Powdery mildew rust
- IV. Leaf spot
- V. Neck blast

Choose the correct answer from the options given below :

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

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

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

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

Correct Answer:- Option-B

Question60:-Consider the following statements :

Assertion : Under the current scenario of high population pressure, it is very difficult for the

state forest departments alone to completely prevent the forest encroachments in India.

Reason : The vast forest areas in India are honey-combed with human settlements and it is

practically impossible to protect them from encroachment without the willing

cooperation and active involvement of the local people.

Choose the correct answer from the options given below :

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

Question61:-What is the primary objective of forest management?

A:-Increase human population in forested areas

B:-Sustainable use of forest resources

C:-Complete removal of forests for agriculture

D:-Focus on recreational purposes only

Correct Answer:- Option-B

Question62:-Which of the following is a key principle of forest management?

A:-Promoting deforestation

B:-Ignoring biodiversity

C:-Maintaining ecological balance

D:-Exploiting timber resources

Correct Answer:- Option-C

Question63:-What does "rotation" mean in forestry?

A:-The time between harvests

B:-The speed of tree growth

C:-The type of tree harvested

D:-The period for forest restoration

Correct Answer:- Option-A

Question64:-What does "progressive yield" refer to in forest management?

A:-Harvesting without regeneration

B:-Increasing the volume of timber harvested over time through forest management

C:-Maintaining constant yield levels throughout the years

D:-Reducing the number of trees for economic gain

Correct Answer:- Option-B

Question65:-Which of the following is an indicator of sustainable forest management?

A:-High deforestation rates

B:-Soil erosion

C:-Clear-cutting without replanting

D:-Regeneration of forest cover

Correct Answer:- Option-D

Question66:-What is the primary goal of tree improvement?

A:-Increase tree height

B:-Enhance wood quality, productivity and adaptability

C:-Reduce biodiversity

D:-Decrease tree density

Correct Answer:- Option-B

Question67:-What does the term "provenance" refer to in tree improvement?

A:-Soil quality

B:-Geographic origin of a seed source

C:-Age of the tree

D:-Height of the tree

Correct Answer:- Option-B

Question68:-What is the process of crossing two genetically different trees to create better offspring called?

A:-Hybridization

B:-Vegetative propagation

C:-Coppicing

D:-Selfing

Correct Answer:- Option-A

Question69:-What does progeny testing evaluate?

A:-Soil fertility

B:-Genetic potential of selected trees

C:-Climatic conditions

D:-Pest resistance

Correct Answer:- Option-B

Question70:-What is the key goal of a seed orchard?

A:-Produce high-quality seeds for reforestation

B:-Enhance pollination

C:-Increase tree spacing

D:-Monitor pests

Correct Answer:- Option-A

Question71:-Small soft mass of tissue in the center of the plant is called?

A:-Soft wood

B:-Heart wood

C:-Growth rings

D:-Pith

Correct Answer:- Option-D

Question72:-What is the advantage of cross-laminated timber (CLT) in construction?

A:-Lightweight and poor insulation

B:-High strength and sustainability

C:-Inconsistent dimensions

D:-Low resistance to load

Correct Answer:- Option-B

Question73:-Extremely heavy wood is

A:-Teak

B:-Sal

C:-Oaks

D:-Siris

Correct Answer:- Option-C

Question74:-Which one is more durable?

A:-Heartwood

B:-Softwood

C:-Bark

D:-Pith

Correct Answer:- Option-A

Question75:-Which method of seasoning involves stacking wood in the open air?

A:-Kiln drying

B:-Solar drying

C:-Air seasoning

D:-Chemical seasoning

Correct Answer:- Option-C

Question76:-What is the primary purpose of wood seasoning?

A:-To increase the weight of wood

B:-To reduce the moisture content

C:-To make the wood softer

D:-To improve the color of the wood

Correct Answer:- Option-B

Question77:-Which of the following is a wood-based panel product?

A:-Concrete board

B:-Plywood

C:-Fiberglass sheet

D:-Ceramic tile

Correct Answer:- Option-B

Question78:-What is the term for the moisture content at which wood is dimensionally stable?

A:-Fiber saturation point

B:-Equilibrium moisture content

C:-Oven-dry point

D:-Water saturation point

Correct Answer:- Option-A

Question79:-What is the primary component of wood?

A:-Cellulose

B:-Protein

C:-Minerals

D:-Fats

Correct Answer:- Option-A

Question80:-What is the main purpose of wood preservation?

A:-To increase wood density

B:-To enhance wood's natural color

C:-To protect wood from decay, insects and fungi

D:-To make wood waterproof

Correct Answer:- Option-C

Question81:-Among the distillation products obtained from roots, the oils of importance are the "Costus oil" and the "Valerian oil" which are produced from the following plants respectively

A:-*Saussuria lappa* and *Valeriana wallichii*

B:-*Boswellia serrata* and *Citrus limonia*

C:-*Mimumsops elengi* and *Acacia farnesiana*

D:-*Jasminum grandiflorum* and *Bursera delpechiana*

Correct Answer:- Option-A

Question82:-Which of the following statement/s is/are incorrect?

A:-National Afforestation and Eco-Development Board (NAEB) was set up in August 1992 for promoting the Afforestation, tree planting, ecological restoration and eco-development activities in the country

B:-Forest Survey of India (FSI) is a government organization in India under the union Ministry of Environment and Forests for conducting forest surveys and studies, which was established in 1981 at Dehradun

C:-Indian Council of Forest Research and Education (ICFRE) was created in 1986 and converted into an autonomous organization in 1991 under MoEF and functions through its headquarter at Dehradun

D:-Indian Institute of Forest Management (IIFM) was established in 1982 at Dehradun as an autonomous institute under the Ministry of Environment and Forests

Correct Answer:- Option-D

Question83:-An understanding of the hierarchy of biosystems is necessary to

appreciate fully the scope of ecology based on the terms used in ecology to describe various levels of biological organizations. Arrange the following ecological terms from top level to bottom level to describe the hierarchy of biosystems in ecology.

(i) Organism (ii) Population (iii) Community (iv) Ecosystem (v) Biosphere

A:-(i), (ii), (iii), (iv), (v)

B:-(i), (ii), (iii), (v), (iv)

C:-(v), (iv), (ii), (iii), (i)

D:-(v), (iv), (iii), (ii), (i)

Correct Answer:- Option-D

Question84:-Read the following statements about Forest policy, law and legislation and select the correct answer from the following :

(i) Forest policy and forest law are complementary tools; the policy provides direction and

law establishes rights and responsibilities

(ii) Forest legislation can be drafted after policy decisions are made, not vice versa

(iii) National Forest Policies act as a comprehensive framework for a country's forest policy

where NFP processes and platforms are used to develop or revise forest policy, strategies

and programmes and facilitate their implementation.

A:-All of the above (i, ii & iii) are correct

B:-Only (i & ii) are correct

C:-Only (ii & iii) are correct

D:-Only (i & iii) are correct

Correct Answer:- Option-A

Question85:-According to National Forest Policy, 1894, the government owned forests have been classified as following :

A:-Protection Forests, National Forests, Village Forests and Tree Lands

B:-Preservation Forest, Commercial Forest, Minor Forest and Pasture Lands

C:-Major Forest, Minor Forest, Village Forest and Woodlots

D:-Production Forests, District Forests and Unclassed Forests

Correct Answer:- Option-B

Question86:-Under natural conditions, organisms - plants, animals, microbes, etc., live together as a natural group affecting each other's life in several ways.

Depending upon the conditions of their existence, synecology may deal with as following statements. Read the following statements and select the correct answer from the following.

(i) Population ecology - A recently developed field, where the units of study are pure stands

of individuals of a single species - population

(ii) Community ecology - In contrast with population ecology, here the units of study are

groups of individuals belonging to different species-plants as well as animals
(iii) Biome ecology - In nature, there may exist a complex of more than one communities,

some in their climax stages and others in different stages of succession, and these all

communities grow under more or less similar climatic conditions in an area
(iv) Ecosystem ecology - This has been the most recent development in ecology and it is

established that not only living (biotic) but also non-living (abiotic) components of the

nature interact with each other

A:-Only (i, ii & iii) are correct

B:-Only (ii, iii & iv) are correct

C:-Only (ii & iii) are correct

D:-All of the above (i, ii, iii & iv) are correct

Correct Answer:- Option-D

Question87:-The Indian Forest Act, 1927 sought to consolidate and reserve the areas having forest cover, or significant wildlife, to regulate movement and transit of forest produce, and duty leviable on timber and other forest produce. IFA, 1927 also defines the procedure to be followed for declaring an area/s as the following :

A:-Reserved Forest

B:-Protected Forest

C:-Village Forest

D:-All of the above

Correct Answer:- Option-D

Question88:-Read the following rights grouped into four categories under "Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006" and choose the correct answer from the following :

(i) Title Rights gave ownership to land that is being framed by tribal or forest dwellers as on

December 13, 2005, subject to a maximum of 4 hectares.

(ii) Use Rights of tribal define the use of minor forest produce, grazing and pastoralist routes.

(iii) Relief and Development Right deals with rehabilitation in case of illegal eviction or forced

displacement and to basic amenities, subject to restrictions for forest protection

(iv) Forest Management Rights confines to role of tribal in protection of forest and wildlife.

A:-All of the above (i, ii, iii & iv) are correct

B:-Only (i & iii) are correct

C:-Only (i, ii & iv) are correct

D:-Only (i, ii & iii) are correct

Correct Answer:- Option-A

Question89:-A red dye known as "Brazilin" is extracted from the wood of the

following tree species

A:-*Artocarpus heterophyllus*

B:-*Acacia catechu*

C:-*Caesalpinia sappan*

D:-*Pterocarpus santalinus*

Correct Answer:- Option-C

Question90:-Read the following types of gum products with the tree species and choose the incorrect matching pair from the following :

A:-Gum kino - *Pterocarpus marsupium*

B:-Bengal kino - *Butea monosperma*

C:-Jhingan gum - *Lannea coromandelica*

D:-Dhaura gum - *Bauhinia retusa*

Correct Answer:- Option-D

Question91:-There are mainly two types of food chains operating in nature (a) Grazing food chain and (b) Detritus food chain. Which of the following statements are correct with respect to Grazing food chain.

- (i) These are directly dependent upon solar radiations as the primary source of energy and the producers (green plants) synthesize their plant biomass by the process of photosynthesis and producers form the first trophic level.
- (ii) Herbivores or primary consumers eat upon the producers and form the second trophic level.
- (iii) Herbivores are in-turn eaten by different categories of carnivores forming the higher trophic levels.
- (iv) Grazing food chains are longer food chains and they always end at decomposer level.

A:-Only (i & ii) are correct

B:-All of the above (i, ii, iii & iv) are correct

C:-Only (i, ii & iii) are correct

D:-Only (i, ii & iv) are correct

Correct Answer:- Option-B

Question92:-According to Indian Forest Act in *Chapter IV* under Constitution of Protected Forest Section 33 has the following offences which are punishable inside the Protected Forest :

- (i) Felling, girdling, lopping, tapping, burning, stripping of bark or leaves from a reserved tree.
- (ii) Quarrying stone, burning lime, collection or removal of stone, collection or removal of MFP from a closed forest.
- (iii) Breaking up of land for cultivation or clearing land in any PF.
- (iv) Causing fire.
- (v) Permitting cattle to damage a reserved tree

- A:-Only (i, ii, iii & iv) are correct
 - B:-Only (ii, iii, iv & v) are correct
 - C:-Only (i, ii, iii & v) are correct
 - D:-All of the above (i, ii, iii, iv & v) are correct
- Correct Answer:- Option-D

Question93:-The leaves of the following trees species yield "Wintergreen oil".

- A:-*Cinnamomum zeylanicum*
- B:-*Mentha arvensis*
- C:-*Eucalyptus citriodora*
- D:-*Gaultheria fragrantissima*

Correct Answer:- Option-D

Question94:-In dry and moist mixed deciduous forests, containing quantities of *Khair* and *Semal* tree species, one of the special objects will be to ensure their reproduction and increase their proportion to feed the following industries

- A:-Cutch/Katha and Match industries
- B:-Match and plywood industries
- C:-Resin and turpentine industries
- D:-Plywood and turpentine industries

Correct Answer:- Option-A

Question95:-Tourism is normally not permissible in the following protected areas

- A:-National Park
- B:-Sanctuary
- C:-Biosphere Reserves
- D:-All the above

Correct Answer:- Option-C

Question96:-Read the following statements on conservation projects and select the correct answer from the following :

- (i) "Project Tiger" was launched in 1973 which aims at tiger conservation in a specially constituted tiger reserves within our country by creating various tiger reserves on a core buffer strategy.
- (ii) "Project Elephant" was launched by the Government of India in the year 1992 as a centrally sponsored scheme to conserve the elephants and its habitat.
- (iii) The Indian government launched "Project Snow Leopard" on January, 2009 to safeguard and conserve India's unique natural heritage of high altitude wildlife populations and their habitats by promoting conservation through participatory policies and actions.
- (iv) "Crocodile Breeding Project" was implemented from the 1st of April 1975 for

the

protection of crocodiles in its natural habitat and conservation and augmentation of its population through artificial measures.

A:-Only (i, ii & iii) are correct

B:-Only (i & ii) are correct

C:-All of the above (i, ii, iii & iv) are correct

D:-Only (i, ii & iv) are correct

Correct Answer:- Option-C

Question97:-The resin known as "Black Dammar" is produced from the following tree species

A:-*Canarium strictum*

B:-*Hopea odorata*

C:-*Vateria indica*

D:-*Shorea robusta*

Correct Answer:- Option-A

Question98:-Read the following different types of grass oils and grasses. Choose the correct matching pair from the following

A:-Lemon grass oil - *Cymbopogon nardus*

B:-Palmrosa oil - *Cymbopogon martini*

C:-Khus oil - *Cymbopogon flexonus*

D:-Citronella oil - *Vetivera zizanioides*

Correct Answer:- Option-B

Question99:-A population is simply defined as all of the organisms of the same species found occupying a given space which has the following attributes. Read the following statements and choose the correct answer from the following

(i) Density means number of individuals that occupy a unit area.

(ii) Natality means the rate at which new members are added to the population by reproduction.

(iii) Mortality means the rate at which members are lost on account of death.

(iv) Population growth rate means the combined effect of mortality, natality and dispersal on population.

A:-Only (i & ii) are correct

B:-Only (iii & iv) are correct

C:-Only (i, ii & iii) are correct

D:-All of the above (i, ii, iii & iv) are correct

Correct Answer:- Option-D

Question100:-Choose the incorrect matching pair from the following

A:-Myrobalan - *Terminalia chebula*

B:-Avaram bark - *Cassia auriculata*

C:-Piney tallow oil - *Vateria indica*

D:-Mahua Butter - *Garcinia indica*

Correct Answer:- Option-D