

59 Forestry ICAR SEPT 2022

Topic:- GEN KNOW COMMON PHD

1) Colour of the tag used on certified seed bags is[Question ID = 16958][Question Description = 101_221_GKD_SEP22_Q01]

1. Blue [Option ID = 37829]
2. Purple [Option ID = 37830]
3. White [Option ID = 37831]
4. Golden Yellow [Option ID = 37832]

2) Following are the statements regarding the Usar soil -

- A. It is reclaimed by adding lime.
- B. This soil has pH more than seven.
- C. Paddy crop can be grown in this soil.

Choose the *correct* answer from the options given below:

[Question ID = 16959][Question Description = 102_221_GKD_SEP22_Q02]

1. A and B only [Option ID = 37833]
2. B and C only [Option ID = 37834]
3. C only [Option ID = 37835]
4. A only [Option ID = 37836]

3) When total utility of a commodity increases, marginal utility will be

[Question ID = 16960][Question Description = 103_221_GKD_SEP22_Q03]

1. Negative but increasing
[Option ID = 37837]
2. Positive but decreasing
[Option ID = 37838]
3. Constant
[Option ID = 37839]
4. Either positive or negative
[Option ID = 37840]

4) Where is the headquarter of International Fund for Agriculture Development located?

[Question ID = 16961][Question Description = 104_221_GKD_SEP22_Q04]

1. Vienna, Austria
[Option ID = 37841]
2. Rome, Italy
[Option ID = 37842]
3. New York, USA
[Option ID = 37843]
4. Berlin, Germany
[Option ID = 37844]

5) Mid-Oceanic Ridges are one of the important divisions of the ocean floor. In this respect, point out the incorrect statement regarding the 'Mid-Oceanic Ridges'. [Question ID = 16962][Question Description = 105_221_GKD_SEP22_Q05]

1. It is the largest mountain chain on the surface of the earth [Option ID = 37845]
2. It is a series of interconnected chain within the ocean. [Option ID = 37846]
3. It is characterised by a central rift system [Option ID = 37847]
4. The rift system at the crest is the zone of very low volcanic activity. [Option ID = 37848]

6) Consider the following facts about the union territory of India and point out the one which is incorrect in relation to union territory. [Question ID = 16963][Question Description = 106_221_GKD_SEP22_Q06]

1. These are the areas under the direct control of central government. [Option ID = 37849]
2. Also known as the 'centrally administered territories. [Option ID = 37850]

3. These territories constitute a conspicuous departure from the unitary feature of India. [Option ID = 37851]
4. There is no uniformity in their administrative systems. [Option ID = 37852]

7) Variety of flora and fauna are found in the different types of forest in India. In this regard, species of trees like teak, *sal shisham*, *sandalwood*, etc. are found in which of the following type of forests in India?[Question ID = 16964][Question Description = 107_221_GKD_SEP22_Q07]

1. Tropical evergreen forests [Option ID = 37853]
2. Tropical thorn forests [Option ID = 37854]
3. Tropical deciduous forests [Option ID = 37855]
4. Montane forests [Option ID = 37856]

8) The Marginal Preference Theory of consumption behaviour was proposed by

[Question ID = 16965][Question Description = 108_221_GKD_SEP22_Q08]

1. Armstrong
[Option ID = 37857]
2. J.K.Hicks
[Option ID = 37858]
3. Neumann
[Option ID = 37859]
4. Edmund Cannon
[Option ID = 37860]

9) Point out the incorrect statements regarding the service sector in India.[Question ID = 16966][Question Description = 109_221_GKD_SEP22_Q09]

1. It is the highest contributor to GDP [Option ID = 37861]
2. It requires skilled labour [Option ID = 37862]
3. It is the fastest growing sector [Option ID = 37863]
4. It is restricted to very few sectors. [Option ID = 37864]

10) Consider the statements regarding the agriculture sector in India and point out the incorrect statement.[Question ID = 16967][Question Description = 110_221_GKD_SEP22_Q10]

1. Agriculture sector is the largest employer of workforce [Option ID = 37865]
2. It has contributed to the Gross Value Added (GVA) [Option ID = 37866]
3. Growth in allied sectors is the major drivers of overall growth in the sector. [Option ID = 37867]
4. Minimum Support Price (MSP) policy is used as to promote crop uniformity. [Option ID = 37868]

11) In case of related goods, the cross elasticity of demand is[Question ID = 16968][Question Description = 111_221_GKD_SEP22_Q11]

1. Low [Option ID = 37869]
2. High [Option ID = 37870]
3. Zero [Option ID = 37871]
4. Unity [Option ID = 37872]

12) With reference to organic farming in India, consider the following statements :

- A. The National Programme for Organic Production' (NPOP) is operated under the guidelines and directions of the Union Ministry of Rural Development.
- B. The Agricultural and Processed Food Products Export Development Authority' (APEDA) functions as the Secretariat for the implementation of NPOP.
- C. Sikkim has become India's first fully organic state.

Choose the *correct* answer from the options given below:

[Question ID = 16969][Question Description = 112_221_GKD_SEP22_Q12]

1. A and B only
[Option ID = 37873]
2. B and C only
[Option ID = 37874]
3. C only
[Option ID = 37875]
4. A, B and C

[Option ID = 37876]

13) With reference to the circumstances in Indian agriculture, the concept of "Conservation Agriculture" assumes significance. Which of the following falls under the Conservation Agriculture ?

- A. Avoiding the monoculture practices.
- B. Adopting minimum tillage.
- C. Avoiding the cultivation of plantation crops.
- D. Using crop residues to cover soil surface.
- E. Adopting spatial and temporal crop sequencing/ crop rotations.

Choose the *correct* answer from the options given below:

[Question ID = 16970][Question Description = 113_221_GKD_SEP22_Q13]

- 1. A, C and D only [Option ID = 37877]
- 2. B, C, D and E only [Option ID = 37878]
- 3. B, D and E only [Option ID = 37879]
- 4. A, B, C and E only [Option ID = 37880]

14) Consumers are likely to get a variety of goods in which kind of market competition[Question ID = 16971][Question Description = 114_221_GKD_SEP22_Q14]

- 1. Monopoly [Option ID = 37881]
- 2. Duopoly [Option ID = 37882]
- 3. Oligopoly [Option ID = 37883]
- 4. Monopolistic [Option ID = 37884]

15) What is the correct chronological order of the following laws enacted for the conservation and protection of environment ?

- A. Environment (Protection) Act.
- B. Water (Prevention & Control of Pollution) Act.
- C. Air (Prevention & Control of pollution) Act.
- D. National Green Tribunal Act.

Choose the *correct* answer from the options given below:

[Question ID = 16972][Question Description = 115_221_GKD_SEP22_Q15]

- 1. B, C, A, D [Option ID = 37885]
- 2. A, B, C, D [Option ID = 37886]
- 3. C, B, A, D [Option ID = 37887]
- 4. D, C, B, A [Option ID = 37888]

16) The scientific study of soil is[Question ID = 16973][Question Description = 116_221_GKD_SEP22_Q16]

- 1. Earth Study [Option ID = 37889]
- 2. Soil Science [Option ID = 37890]
- 3. Pedology [Option ID = 37891]
- 4. Soil Chemistry [Option ID = 37892]

17) *Triticum aestivum*, the common bread wheat is -

[Question ID = 16974][Question Description = 117_221_GKD_SEP22_Q17]

- 1. Tetraploid

[Option ID = 37893]

- 2. Hexaploid

[Option ID = 37894]

- 3. Haploid

[Option ID = 37895]

- 4. Diploid

[Option ID = 37896]

18) Sectoral inflation refers to[Question ID = 16975][Question Description = 118_221_GKD_SEP22_Q18]

- 1. Running inflation [Option ID = 37897]

2. Comprehensive inflation [Option ID = 37898]
3. Sporadic inflation [Option ID = 37899]
4. Creeping inflation [Option ID = 37900]

19) Keynes Liquidity trap refers to[Question ID = 16976][Question Description = 119_221_GKD_SEP22_Q19]

1. Speculative demand for money [Option ID = 37901]
2. Transactions motive of money is inelastic [Option ID = 37902]
3. Precautionary motive of money is inelastic [Option ID = 37903]
4. Transactions motive of money is constant [Option ID = 37904]

20) A business is solvent if[Question ID = 16977][Question Description = 120_221_GKD_SEP22_Q20]

1. Total receipts exceed total expenditures [Option ID = 37905]
2. Total debt exceeds total equity [Option ID = 37906]
3. Total sales exceed total cash expense [Option ID = 37907]
4. Total assets exceed total liabilities [Option ID = 37908]

Topic:- Natural Resource Mgmt 1_PHD

1) A tensiometer reading of 10-25 centibar indicates

[Question ID = 15953][Question Description = 101_148_NR1_SEP22_Q01]

1. Saturation water content [Option ID = 33809]
2. Field capacity water content [Option ID = 33810]
3. Water content between field capacity and wilting point [Option ID = 33811]
4. Wilting point water content [Option ID = 33812]

2) Following are the facts about soil temperature

- A. It oscillates as a pure harmonic function of time around an average value
- B. Soil temperature and air temperature changes happen at the same pace
- C. Application of charcoal over the surface enhance the soil temperature
- D. Conduction is the primary mode of heat transfer in soil

Choose the *correct* answer from the options given below:

[Question ID = 15954][Question Description = 102_148_NR1_SEP22_Q02]

1. A, B and D only [Option ID = 33813]
2. A and C only [Option ID = 33814]
3. B, C and D only [Option ID = 33815]
4. A, C and D only [Option ID = 33816]

3) Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A : When a sandy layer is overlying a clay loam layer, a “perched water table” develops in the sandy layer during infiltration, just above its boundary with the clay loam layer

Reason R : Sandy soil has higher saturated hydraulic conductivity compared to clay loam layer

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 15955][Question Description = 103_148_NR1_SEP22_Q03]

1. Both A and R are true and R is the correct explanation of A [Option ID = 33817]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 33818]
3. A is true but R is false [Option ID = 33819]
4. A is false but R is true [Option ID = 33820]

4) Which of the following is NOT true?

[Question ID = 15956][Question Description = 104_148_NR1_SEP22_Q04]

1. Emissivity relates to Planck's law [Option ID = 33821]
2. Emissivity has no unit [Option ID = 33822]
3. For a perfect black body, emissivity has the highest value [Option ID = 33823]
4. The emissivity of soil decreases when its water content becomes higher [Option ID = 33824]

5) Which of the following is NOT an active remote sensing sensor.[Question ID = 15957][Question Description = 105_148_NR1_SEP22_Q05]

1. Radar [Option ID = 33825]
2. Lidar [Option ID = 33826]

3. SONAR [Option ID = 33827]
4. Microwave radiometer [Option ID = 33828]

6) The earth behaves as a blackbody with mean average temperature of [Question ID = 15958][Question Description = 106_148_NR1_SEP22_Q06]

1. 65 °F [Option ID = 33829]
2. 300 °K [Option ID = 33830]
3. 15 °C [Option ID = 33831]
4. 25 °C [Option ID = 33832]

7) Which of the following thermometers placed inside the Stevenson screen in a meteorological observatory is used to measure humidity?

[Question ID = 15959][Question Description = 107_148_NR1_SEP22_Q07]

1. Wet bulb thermometer and dry bulb thermometer [Option ID = 33833]
2. Wet bulb thermometer, dry bulb thermometer and normal thermometer [Option ID = 33834]
3. Wet bulb thermometer and normal thermometer [Option ID = 33835]
4. Wet bulb thermometer, dry bulb thermometer, maximum thermometer and minimum thermometer [Option ID = 33836]

8) Which of the following instrument is used to measure global solar radiation? [Question ID = 15960][Question Description = 108_148_NR1_SEP22_Q08]

1. Pyrheliometer [Option ID = 33837]
2. Pyranometer [Option ID = 33838]
3. Pyradiometer [Option ID = 33839]
4. Albedometer [Option ID = 33840]

9) In relational database management system (RDBMS) of geographical information system (GIS) environment, number of rows and columns are called as [Question ID = 15961][Question Description = 109_148_NR1_SEP22_Q09]

1. Attribute and tuple, respectively [Option ID = 33841]
2. Cardinality and degree, respectively [Option ID = 33842]
3. Tuple and cardinality, respectively [Option ID = 33843]
4. Tuple and attribute, respectively [Option ID = 33844]

10) Which one is correct in cylindrical equal area projection system, which is also known as Lambert's projection system

[Question ID = 15962][Question Description = 110_148_NR1_SEP22_Q10]

1. View of pole is distorted [Option ID = 33845]
2. The shape of the area at high latitude is distorted [Option ID = 33846]
3. Both area and all four edges are distorted [Option ID = 33847]
4. All four edges are distorted [Option ID = 33848]

11) The time interval after a pulse has occurred during which the counter is insensitive to further ionizing events is called as [Question ID = 15963][Question Description = 111_148_NR1_SEP22_Q11]

1. Dead time [Option ID = 33849]
2. Resolving time [Option ID = 33850]
3. Ionizing time [Option ID = 33851]
4. Sensitive time [Option ID = 33852]

12) First law of thermodynamics for isothermal expansion of an ideal gas can be expressed as

[Question ID = 15964][Question Description = 112_148_NR1_SEP22_Q12]

1. $\Delta Q = \Delta W$ [Option ID = 33853]
2. $\Delta Q = \Delta U$ [Option ID = 33854]
3. $\Delta U = \Delta W$ [Option ID = 33855]
4. $\Delta Q = \Delta T$ [Option ID = 33856]

13) The statement "two systems in thermal equilibrium with a third system separately are in thermal equilibrium with each other" represents

[Question ID = 15965][Question Description = 113_148_NR1_SEP22_Q13]

1. First law of thermodynamics [Option ID = 33857]
2. Second law of thermodynamics [Option ID = 33858]
3. Zeroth law of thermodynamics [Option ID = 33859]
4. Third law of thermodynamics [Option ID = 33860]

14) Match List I with List II

List I	List II
Physical quantity	SI unit
A. Momentum	I. Volt
B. Viscosity	II. kg m^{-3}
C. Density	III. $\text{kg m}^{-1}\text{s}^{-1}$
D. Electromotive force	IV. kg ms^{-1}

Choose the correct answer from the options given below:

[Question ID = 15966][Question Description = 114_148_NR1_SEP22_Q14]

1. A-IV, B-III, C-II, D-I [Option ID = 33861]
2. A-III, B-I, C-IV, D-II [Option ID = 33862]
3. A-III, B-II, C- IV, D-I [Option ID = 33863]
4. A-I, B-II, C-III, D-IV [Option ID = 33864]

15) Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R
Assertion A : Characteristic X-rays are produced with specific energies

Reason R : Continuous X-rays have broad spectrum of photon energies

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 15967][Question Description = 115_148_NR1_SEP22_Q15]

1. Both A and R are true and R is the correct explanation of A [Option ID = 33865]
2. Both A and R are true but R is NOT the correct explanation of A [Option ID = 33866]
3. A is true but R is false [Option ID = 33867]
4. A is false but R is true [Option ID = 33868]

16) Due to rising CO_2 in the atmosphere, the C/N ratio of C3 plants is likely to [Question ID = 15968][Question Description = 116_148_NR1_SEP22_Q16]

1. Increase [Option ID = 33869]
2. Decrease [Option ID = 33870]
3. No change [Option ID = 33871]
4. First decrease then increase [Option ID = 33872]

17) Crop model 'CERES' stands for [Question ID = 15969][Question Description = 117_148_NR1_SEP22_Q17]

1. Crop Environment Resource Synthesis [Option ID = 33873]
2. Crop Environment Resource Simulation [Option ID = 33874]
3. Crop Engineered for Resource Synthesis [Option ID = 33875]
4. Crop Environment Interaction Research [Option ID = 33876]

18) Large Aperture Scientillometer directly measures [Question ID = 15970][Question Description = 118_148_NR1_SEP22_Q18]

1. Latent heat flux [Option ID = 33877]
2. Sensible heat flux [Option ID = 33878]
3. Water Vapour flux [Option ID = 33879]
4. Methane flux [Option ID = 33880]

19) Practical measurement of gaseous flux in turbulent atmosphere requires at the order of [Question ID = 15971][Question Description = 119_148_NR1_SEP22_Q19]

1. One minute [Option ID = 33881]
2. One second [Option ID = 33882]
3. One mili-second [Option ID = 33883]
4. One-tenth of second [Option ID = 33884]

20) IBSNAT stands for [Question ID = 15972][Question Description = 120_148_NR1_SEP22_Q20]

1. International Beureau of Sites Network for Agrotechnology Transfer [Option ID = 33885]
2. International Benchmark Sites Network for Agrotechnology Transfer [Option ID = 33886]
3. International Books System Network for Agrotechnology Transfer [Option ID = 33887]
4. International Books System Network for Agroecology Transfer

[Option ID = 33888]

21) Which type of relationship is there between El Nino and Indian summer monsoon rainfall in general? [Question ID = 15973][Question Description = 121_148_NR1_SEP22_Q21]

1. Positive [Option ID = 33889]
2. Negative [Option ID = 33890]
3. Neutral [Option ID = 33891]

4. Nonsense [Option ID = 33892]

22) What information is given through 'Damini' App of IMD ?

- A. Lightning and thunderstorm
- B. Name of the clouds
- C. Rainfall analysis
- D. Weather based Agroadvisory

Choose the *correct* answer from the options given below:

[Question ID = 15974][Question Description = 122_148_NR1_SEP22_Q22]

- 1. A only [Option ID = 33893]
- 2. B and C only [Option ID = 33894]
- 3. C and D only [Option ID = 33895]
- 4. A and D only [Option ID = 33896]

23) What is the normal date of onset of south west monsoon at mainland of India?[Question ID = 15975][Question Description = 123_148_NR1_SEP22_Q23]

- 1. 10th May [Option ID = 33897]
- 2. 25th May [Option ID = 33898]
- 3. 1st June [Option ID = 33899]
- 4. 7th June [Option ID = 33900]

24) By which process frosting occur on leaves of the plant?[Question ID = 15976][Question Description = 124_148_NR1_SEP22_Q24]

- 1. Condensation [Option ID = 33901]
- 2. Sublimation [Option ID = 33902]
- 3. Evaporation [Option ID = 33903]
- 4. Transpiration [Option ID = 33904]

25) By which instrument the outgoing longwave radiation from the Earth surface can be measured?[Question ID = 15977][Question Description = 125_148_NR1_SEP22_Q25]

- 1. Pyranometer [Option ID = 33905]
- 2. Pyrhelimeter [Option ID = 33906]
- 3. Pyrgeometer [Option ID = 33907]
- 4. Line Quantum sensor [Option ID = 33908]

26) About 50% of atmospheric mass lies within the altitude of

[Question ID = 15978][Question Description = 126_148_NR1_SEP22_Q26]

- 1. 10.4 km [Option ID = 33909]
- 2. 15.5 km [Option ID = 33910]
- 3. 5.6 km [Option ID = 33911]
- 4. 22.4 km [Option ID = 33912]

27) The word "klima" means and derived from

[Question ID = 15979][Question Description = 127_148_NR1_SEP22_Q27]

- 1. Atmosphere, Greek word [Option ID = 33913]
- 2. Slope, Greek word [Option ID = 33914]
- 3. Earth, Latin word [Option ID = 33915]
- 4. Climate, Latin word [Option ID = 33916]

28) Match List I with List II

List I	List II
Cloud	Characteristics
A. Cirrus	I. Silky appearance
B. Altostratus	II. Medium cloud
C. Nimbostratus	III. Cloud with vertical development
D. Cumulus	IV. Rainfall producing cloud

Choose the correct answer from the options given below:

[Question ID = 15980][Question Description = 128_148_NR1_SEP22_Q28]

- 1. A - I, B - II, C - IV, D - III [Option ID = 33917]

2. A - II, B - IV, C - I, D - III [Option ID = 33918]
3. A - IV, B - II, C - III, D - I [Option ID = 33919]
4. A - II, B - IV, C - III, D - I [Option ID = 33920]

29) Monitoring meteorological drought using SPI (Standardized Precipitation Index) requires

[Question ID = 15981][Question Description = 129_148_NR1_SEP22_Q29]

1. Moisture data [Option ID = 33921]
2. Precipitation data [Option ID = 33922]
3. Rainfall and humidity data [Option ID = 33923]
4. Rainfall and evapotranspiration data [Option ID = 33924]

30) Which of the following wind system or zone is observed between 5 degree North to 5 degree South Latitude?[Question ID = 15982][Question Description = 130_148_NR1_SEP22_Q30]

1. Trade wind belt [Option ID = 33925]
2. Easterlies [Option ID = 33926]
3. Westerlies [Option ID = 33927]
4. Doldrum [Option ID = 33928]

31) The first issue of the journal 'The Indian Forester' was published in which year?

[Question ID = 15983][Question Description = 131_148_NR1_SEP22_Q31]

1. December, 1863 [Option ID = 33929]
2. July, 1875 [Option ID = 33930]
3. January, 1906 [Option ID = 33931]
4. October, 1827 [Option ID = 33932]

32) As per the India State of Forest Report-2021, highest average net annual gains in forest cover for the period 2010-2020 has been recorded in the country:[Question ID = 15984][Question Description = 132_148_NR1_SEP22_Q32]

1. Australia [Option ID = 33933]
2. Pakistan [Option ID = 33934]
3. China [Option ID = 33935]
4. India [Option ID = 33936]

33) Given below are two statements

Statement I: The Indian Forest (Amendment) Bill, 2017 was introduced in Lok Sabha by Mr. Harsh Vardhan, then Minister of Environment, Forest, and Climate Change on December 18, 2017.

Statement II: The Bill replaces the Indian Forest (Amendment) Ordinance, 2017 and amends the Indian Forest Act, 1927. The Act consolidates laws relating to forests, transit of forest-produce and the duty to be levied on them.

In light of the above statements, choose the correct answer from the options given below

[Question ID = 15985][Question Description = 133_148_NR1_SEP22_Q33]

1. Both Statement I and Statement II are true [Option ID = 33937]
2. Both Statement I and Statement II are false [Option ID = 33938]
3. Statement I is true but Statement II is false [Option ID = 33939]
4. Statement I is false but Statement II is true [Option ID = 33940]

34) Forestry Statistics India- 2021 an important document compilation of important time series data on forestry aspects from 2010-11 to 2021-21 and is published by

[Question ID = 15986][Question Description = 134_148_NR1_SEP22_Q34]

1. Forestry Survey of India, Dehradun [Option ID = 33941]
2. Indian Council of Forestry Research and Education, Dehradun [Option ID = 33942]
3. National Sample Survey Organization, Govt. of India [Option ID = 33943]
4. Regional office, World Agroforestry Centre, New Delhi [Option ID = 33944]

35) Match List I with List II

List I	List II
International Day of Forests	Theme
A. 2022	I. Forests and Biodiversity: Too precious to loose
B. 2021	II. Forests and Education
C. 2020	III. Forest restoration: a path to recovery and well being
D. 2019	IV. Forests and sustainable production and consumption

Choose the correct answer from the options given below:

[Question ID = 15987][Question Description = 135_148_NR1_SEP22_Q35]

1. A - I, B - II, C - III, D - IV [Option ID = 33945]
2. A - IV, B - III, C - I, D - II [Option ID = 33946]
3. A - III, B - I, C - II, D - IV [Option ID = 33947]
4. A - II, B - IV, C - III, D - I [Option ID = 33948]

36) Forest Research Institute (FRI), Dehradun has its roots in the erstwhile Imperial Forest Research Institute established in the year

[Question ID = 15988][Question Description = 136_148_NR1_SEP22_Q36]

1. 1894 [Option ID = 33949]
2. 1906 [Option ID = 33950]
3. 1927 [Option ID = 33951]
4. 1947 [Option ID = 33952]

37) The headquarter of International Tropical Timber Organization (ITTO) is located at

[Question ID = 15989][Question Description = 137_148_NR1_SEP22_Q37]

1. Vienna, Austria [Option ID = 33953]
2. Sydney, Australia [Option ID = 33954]
3. Yokohama, Japan [Option ID = 33955]
4. Nairobi, Kenya [Option ID = 33956]

38) Based on the analysis of robust data pertaining to forest fires for fairly long period as reported in India State of Forest Report (ISFR) 2021, ____ % of the forest cover of the country is in the category of 'less fire prone'.

[Question ID = 15990][Question Description = 138_148_NR1_SEP22_Q38]

1. 64.54 [Option ID = 33957]
2. 53.39 [Option ID = 33958]
3. 37.67 [Option ID = 33959]
4. 23.59 [Option ID = 33960]

39) Advanced Research Centre for Bamboo and Rattan is located at.....[Question ID = 15991][Question Description = 139_148_NR1_SEP22_Q39]

1. Aizawal, Mizoram [Option ID = 33961]
2. Barapani, Meghalaya [Option ID = 33962]
3. Jorhat, Assam [Option ID = 33963]
4. Imphal, Manipur [Option ID = 33964]

40) Which of the following protocol is related to ozone depletion?[Question ID = 15992][Question Description = 140_148_NR1_SEP22_Q40]

1. Copenhagen Protocol [Option ID = 33965]
2. Kyoto Protocol [Option ID = 33966]
3. Montreal Protocol [Option ID = 33967]
4. Doha Protocol [Option ID = 33968]

41) Eco-auditing focuses on[Question ID = 15993][Question Description = 141_148_NR1_SEP22_Q41]

1. Assessment of actual effects of existing activities [Option ID = 33969]
2. Assessment of project decisions [Option ID = 33970]
3. Policy assessment [Option ID = 33971]
4. Post project assessment [Option ID = 33972]

42) Under the Climate Change Action Plan of Government of India, which of the renewable source of energy has been identified as a priority for exploitation?[Question ID = 15994][Question Description = 142_148_NR1_SEP22_Q42]

1. Solar energy [Option ID = 33973]
2. Wind energy [Option ID = 33974]
3. Geothermal energy [Option ID = 33975]
4. Tidal energy [Option ID = 33976]

43) According to the Bureau of Indian Standards (BIS), the upper limit of total dissolved solids (TDS) levels in drinking water supply should not exceed[Question ID = 15995][Question Description = 143_148_NR1_SEP22_Q43]

1. 250 ppm [Option ID = 33977]
2. 500 ppm [Option ID = 33978]
3. 350 ppm [Option ID = 33979]
4. 600 ppm [Option ID = 33980]

44) **Richard Carson in her book Silent Spring has raised concern on**[Question ID = 15996][Question Description = 144_148_NR1_SEP22_Q44]

1. Economical & social impacts [Option ID = 33981]
2. Deforestation [Option ID = 33982]
3. Climate Change [Option ID = 33983]
4. Environmental harm caused by the indiscriminate use of pesticides [Option ID = 33984]

45) **Which one of the following air pollution control device has the highest efficiency in controlling dust?**[Question ID = 15997][Question Description = 145_148_NR1_SEP22_Q45]

1. Wet Scrubber [Option ID = 33985]
2. Electrostatic precipitator [Option ID = 33986]
3. Venturi Scrubber [Option ID = 33987]
4. Cyclonic spray scrubber [Option ID = 33988]

46) **In which year the Ganga Action Plan (GAP) was launched?**[Question ID = 15998][Question Description = 146_148_NR1_SEP22_Q46]

1. 1985 [Option ID = 33989]
2. 1987 [Option ID = 33990]
3. 1990 [Option ID = 33991]
4. 1995 [Option ID = 33992]

47) **Seawater is a solution of?**

[Question ID = 15999][Question Description = 147_148_NR1_SEP22_Q47]

1. 0.5 N NaCl and 0.05 N MnSO₄ [Option ID = 33993]
2. 0.5 N NaCl and 0.05 N MgSO₄ [Option ID = 33994]
3. 0.5 M NaCl and 0.05 M MnSO₄ [Option ID = 33995]
4. 0.5 M NaCl and 0.05 M MgSO₄ [Option ID = 33996]

48) **In a catalytic converter, what is the correct order of reactions?**

[Question ID = 16000][Question Description = 148_148_NR1_SEP22_Q48]

1. First reduction (NO) and after oxidation (HCs) [Option ID = 33997]
2. First oxidation (NO) and after reduction (HCs) [Option ID = 33998]
3. First oxidation (HCs) and after Reduction (NO) [Option ID = 33999]
4. First reduction (HCs) and after oxidation (NO) [Option ID = 34000]

49) **Which detector is used for the analysis of peroxyacetyl nitrate (PAN) in gas chromatography?**[Question ID = 16001][Question Description = 149_148_NR1_SEP22_Q49]

1. Flame ionization detector (FID) [Option ID = 34001]
2. Electron capture detector (ECD) [Option ID = 34002]
3. Flame photometric detector (FPD) [Option ID = 34003]
4. Thermal conductivity detector (TCD) [Option ID = 34004]

50) **Which pollutant is responsible for the hardening of rubber?**

[Question ID = 16002][Question Description = 150_148_NR1_SEP22_Q50]

1. Ozone [Option ID = 34005]
2. Peroxyacetyl nitrate [Option ID = 34006]
3. SO₂ [Option ID = 34007]
4. Hydrocarbons [Option ID = 34008]

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1) Match List I with List II

List I	List II
Forest classification code	Sub group/type
A. Sub-group 4B	I. Southern montane wet temperate forest
B. Type 1A/C ₁	II. Moist sal-bearing forest
C. Type 3C/C ₂	III. Giant evergreen forest
D. Sub-group 11A	IV. Tidal swamp forest

Choose the correct answer from the options given below:

[Question ID = 16003][Question Description = 101_149_FAT_SEP22_Q01]

1. A-I, B-II, C-III, D-IV [Option ID = 34009]

2. A-IV, B-III, C-II, D-I [Option ID = 34010]
3. A-III, B-I, C-II, D-IV [Option ID = 34011]
4. A-II, B-IV, C-I, D-III [Option ID = 34012]

2) Given below are two statements

Statement I: The import duty on bamboo was reduced in 2011 from 30% to 10%.

Statement II: Import duty was hiked again in 2020 on bamboo sticks from 10% to 30% to support industry and employment.

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 16004][Question Description = 102_149_FAT_SEP22_Q02]

1. Both Statement I and Statement II are true [Option ID = 34013]
2. Both Statement I and Statement II are false [Option ID = 34014]
3. Statement I is true but Statement II is false [Option ID = 34015]
4. Statement I is false but Statement II is true [Option ID = 34016]

3) As per the International Union for Conservation of Nature (IUCN) threat list, please match the List I to List II as per their threat percentage.

List I	List II
Sector	Percent
A. Agriculture	I. 13 %
B. Logging	II. 17 %
C. Urbanisation and industrialization	III. 27 %
D. Climate change, fire, energy, etc.	IV. 29 %
E. Livestock farming	V. 14 %

Choose the correct answer from the options given below:

[Question ID = 16005][Question Description = 103_149_FAT_SEP22_Q03]

1. A-I, B-II, C-III, D-IV, E-V
[Option ID = 34017]
2. A-IV, B-III, C-I, D-II, E-V
[Option ID = 34018]
3. A-II, B-V, C-III, D-IV, E-I
[Option ID = 34019]
4. A-III, B-V, C-IV, D -I, E-II
[Option ID = 34020]

4) Given below are two statements

Statement I: First National Agroforestry Policy was enacted in 2014

Statement II: Kenya achieved the distinction of being second country globally after India in adopting National Agroforestry Policy in their country in 2019

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 16006][Question Description = 104_149_FAT_SEP22_Q04]

1. Both Statement I and Statement II are true [Option ID = 34021]
2. Both Statement I and Statement II are false [Option ID = 34022]
3. Statement I is true but Statement II is false [Option ID = 34023]
4. Statement I is false but Statement II is true [Option ID = 34024]

5) Bamboo stick of less than ----- thickness has been listed as processed item, which is exempted from plant quarantine clearance

[Question ID = 16007][Question Description = 105_149_FAT_SEP22_Q05]

1. 6mm [Option ID = 34025]
2. 8mm [Option ID = 34026]
3. 10mm [Option ID = 34027]
4. 12mm [Option ID = 34028]

6) Match List I with List II

List I	List II

Tree species	Mode of seed dispersal
A. <i>Populus deltoides</i>	I. by water
B. <i>Delbergia sissoo</i>	II. by gravity
C. <i>Quercus leucotrichophora</i>	III. by wind
D. <i>Prosopis juliflora</i>	IV. by animals

Choose the correct answer from the options given below:

[Question ID = 16008][Question Description = 106_149_FAT_SEP22_Q06]

1. A - I, B - II, C - III, D - IV [Option ID = 34029]
2. A - IV, B - III, C - II, D - I [Option ID = 34030]
3. A - III, B - I, C - II, D - IV [Option ID = 34031]
4. A - II, B - IV, C - I, D - III [Option ID = 34032]

7) Calculate the number of plants required for 10 hectares of plantation of *Eucalyptus* in which plants are planted in a triangular pattern at 2.5 m uniform spacing.[Question ID = 16009][Question Description = 107_149_FAT_SEP22_Q07]

1. 1600 [Option ID = 34033]
2. 1848 [Option ID = 34034]
3. 16000 [Option ID = 34035]
4. 18480 [Option ID = 34036]

8) Given below are two statements

Statement I: Selection thinning is applicable to uneven-aged irregular crops.

Statement II: Selection thinning is carried out primarily in the dominant trees.

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 16010][Question Description = 108_149_FAT_SEP22_Q08]

1. Both Statement I and Statement II are true [Option ID = 34037]
2. Both Statement I and Statement II are false [Option ID = 34038]
3. Statement I is true but Statement II is false [Option ID = 34039]
4. Statement I is false but Statement II is true [Option ID = 34040]

9) Match List I with List II

List I	List II
(Tree species)	(Family)
A. <i>Gmelina arborea</i>	I. Leguminosae
B. <i>Pongamia pinnata</i>	II. Ebenaceae
C. <i>Azadirachta indica</i>	III. Verbenaceae
D. <i>Diospyros melanoxylon</i>	IV. Meliaceae

Choose the correct answer from the options given below:

[Question ID = 16011][Question Description = 109_149_FAT_SEP22_Q09]

1. A -III , B -I , C -IV , D -II [Option ID = 34041]
2. A -IV , B -III , C -II , D -I [Option ID = 34042]
3. A -I , B -II , C -III , D -IV [Option ID = 34043]
4. A -II , B -IV , C -I , D -III [Option ID = 34044]

10) Calculate nursery area required to raise 30 ha field plantation of *Tectona grandis* at a spacing of 2.5m x 2.5m. The size of nursery bed to be used is 2m x 1.2m and seedlings will be raised at 15cm x 20cm spacing in the nursery beds.

[Question ID = 16012][Question Description = 110_149_FAT_SEP22_Q10]

1. 1620 m²
[Option ID = 34045]
2. 3240 m²
[Option ID = 34046]
3. 6480 m²
[Option ID = 34047]
4. 12960 m²
[Option ID = 34048]

11) Given below are two statements

Statement I: Canopy density is the relative completeness of canopy usually expressed as a decimal coefficient, taking closed canopy as unity.

Statement II: Canopy density has no bearing with the crop volume.

In light of the above statements, choose the *most appropriate* answer from the options given below

[Question ID = 16013][Question Description = 111_149_FAT_SEP22_Q11]

1. Both Statement I and Statement II are correct [Option ID = 34049]
2. Both Statement I and Statement II are incorrect [Option ID = 34050]
3. Statement I is correct but Statement II is incorrect [Option ID = 34051]
4. Statement I is incorrect but Statement II is correct [Option ID = 34052]

12) Given below are two statements

Statement I: Clonal forestry utilizes only the additive component of variance

Statement II: In clonal forestry juvenility of vegetative propagule can be maintained by hedging and cryopreservation

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 16014][Question Description = 112_149_FAT_SEP22_Q12]

1. Both Statement I and Statement II are true [Option ID = 34053]
2. Both Statement I and Statement II are false [Option ID = 34054]
3. Statement I is true but Statement II is false [Option ID = 34055]
4. Statement I is false but Statement II is true [Option ID = 34056]

13) Average improvement in a progeny over the mean of parental generation, expressed as % is known as.....[Question ID = 16015][Question Description = 113_149_FAT_SEP22_Q13]

1. Genetic advance [Option ID = 34057]
2. Genetic gain [Option ID = 34058]
3. Heritability [Option ID = 34059]
4. General combining ability [Option ID = 34060]

14) Distinct characters in propagules due to preconditioning of tissue in different environments is called.....

[Question ID = 16016][Question Description = 114_149_FAT_SEP22_Q14]

1. Periphysis [Option ID = 34061]
2. Cyclophysis [Option ID = 34062]
3. Topophysis [Option ID = 34063]
4. Plagiophysis [Option ID = 34064]

15) The average performance of an F_1 progeny of a cross between two specific parents is known as.....

[Question ID = 16017][Question Description = 115_149_FAT_SEP22_Q15]

1. Specific combining ability (SCA) [Option ID = 34065]
2. General combining ability (GCA) [Option ID = 34066]
3. Genotypic coefficient of variance (GCA) [Option ID = 34067]
4. Phenotypic coefficient of variance (PCV) [Option ID = 34068]

16) Method of tree selection used for disease resistance in forestry

[Question ID = 16018][Question Description = 116_149_FAT_SEP22_Q16]

1. Selection Index [Option ID = 34069]
2. Independent culling [Option ID = 34070]
3. Pedigree method [Option ID = 34071]
4. Tandem selection [Option ID = 34072]

17) Find out the length of a log having its girth of 8 feet and volume with quarter girth formula is 80 cft.[Question ID = 16019][Question Description = 117_149_FAT_SEP22_Q17]

1. 5 feet [Option ID = 34073]
2. 10 feet [Option ID = 34074]
3. 20 feet [Option ID = 34075]
4. 40 feet [Option ID = 34076]

18) If the volume at the age of 70 years be 100 m^3 and the volume ten years ago be 70 m^3 , while a thinning carried out 5 years ago yielded 10 m^3 , then increment per cent (p) by Pressler's Formula will be

[Question ID = 16020][Question Description = 118_149_FAT_SEP22_Q18]

1. 3.92 [Option ID = 34077]
2. 4.44 [Option ID = 34078]
3. 12.68 [Option ID = 34079]
4. 16.44 [Option ID = 34080]

19) Given below are two statements

Statement I: Sequential sampling is a method of non-random sampling.

Statement II: While Multiphase sampling is a method of random sampling

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 16021][Question Description = 119_149_FAT_SEP22_Q19]

1. Both Statement I and Statement II are true [Option ID = 34081]
2. Both Statement I and Statement II are false [Option ID = 34082]
3. Statement I is true but Statement II is false [Option ID = 34083]
4. Statement I is false but Statement II is true [Option ID = 34084]

20) Spiegel Raloscope an important instrument is used to measure the

[Question ID = 16022][Question Description = 120_149_FAT_SEP22_Q20]

1. Biomass of standing trees [Option ID = 34085]
2. Specific gravity and calorific value of wood [Option ID = 34086]
3. Slope and canopy density [Option ID = 34087]
4. Height and basal area of standing trees [Option ID = 34088]

21) Given below are two statements

Statement I: Absolute form factor is calculated by measuring the basal area at breast height and taking length of whole tree.

Statement II: Artificial form factor is determined by measuring the basal area at any convenient height and taking length of tree above that point.

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 16023][Question Description = 121_149_FAT_SEP22_Q21]

1. Both Statement I and Statement II are true [Option ID = 34089]
2. Both Statement I and Statement II are false [Option ID = 34090]
3. Statement I is true but Statement II is false [Option ID = 34091]
4. Statement I is false but Statement II is true [Option ID = 34092]

22) Given below are two statements

Statement I: Almost 100 percent national forests are under Govt. control, which are providing sufficient raw material to wood based industries in the country

Statement II: More than 90 percent raw material for wood based industries is sourced outside national forests

In light of the above statements, choose the *most appropriate* answer from the options given below

[Question ID = 16024][Question Description = 122_149_FAT_SEP22_Q22]

1. Both Statement I and Statement II are correct [Option ID = 34093]
2. Both Statement I and Statement II are incorrect [Option ID = 34094]
3. Statement I is correct but Statement II is incorrect [Option ID = 34095]
4. Statement I is incorrect but Statement II is correct [Option ID = 34096]

23) The Kyoto Protocol offered a means of meeting the targets of GHG reduction by way of three market-based flexible mechanisms: Emissions Trading, Joint Implementation and the Clean Development Mechanism. The developing nations (non-Annex 1) were ecologically and economically benefitted through ----- under the Kyoto Protocol, which involved agroforestry interventions also

[Question ID = 16025][Question Description = 123_149_FAT_SEP22_Q23]

1. Emission trading [Option ID = 34097]
2. Clean Development Mechanism [Option ID = 34098]
3. Joint implementation [Option ID = 34099]
4. Without registration of projects [Option ID = 34100]

24) Given below are two statements

Statement I: Agroforestry system consists of one or more agroforestry practices that are practiced extensively in a given locality or area

Statement II: The system is usually described according to its biological composition and arrangement, level of technical management or socio-economic features

In light of the above statements, choose the *most appropriate* answer from the options given below

[Question ID = 16026][Question Description = 124_149_FAT_SEP22_Q24]

1. Both Statement I and Statement II are correct [Option ID = 34101]
2. Both Statement I and Statement II are incorrect [Option ID = 34102]
3. Statement I is correct but Statement II is incorrect [Option ID = 34103]
4. Statement I is incorrect but Statement II is correct [Option ID = 34104]

25) On January 1, 2019, two of the leading organizations focused on forestry and agroforestry, merged in order to provide the evidence and innovative solutions needed to scale up investment in sustainable development and address the global challenges[Question ID = 16027][Question Description = 125_149_FAT_SEP22_Q25]

1. Indian Council of Forestry Research and Education (ICFRE)-Indian Council of Agricultural Research (ICAR) [Option ID = 34105]
2. Central Agroforestry Research Institute (CAFRI)-Tropical Forest Research Institute (TFRI) [Option ID = 34106]
3. Indian Institute of Forest Management (IIFM)-World Agroforestry Centre (WAC) [Option ID = 34107]
4. Center for International Forestry Research (CIFOR)-International Centre for Research on Agroforestry (ICRAF) [Option ID = 34108]

26) Given below are two statements

Statement I: Land equivalent ratio= $(Y_i/Y_s)1 + (Y_i/Y_s)2$

s and i indicate sole and intercrop yield (Y); 1 and 2 indicate the individual system components or crops

Statement II: Area time equivalence ratio= $(T_s/T_i)(Y_i/Y_s)1 + (T_s/T_i)(Y_i/Y_s)2$

s and i indicate sole and intercrop yield (Y) and crop duration (T); 1 and 2 indicate the individual system components or crops

In light of the above statements, choose the *most appropriate* answer from the options given below

[Question ID = 16028][Question Description = 126_149_FAT_SEP22_Q26]

1. Both Statement I and Statement II are correct [Option ID = 34109]
2. Both Statement I and Statement II are incorrect [Option ID = 34110]
3. Statement I is correct but Statement II is incorrect [Option ID = 34111]
4. Statement I is incorrect but Statement II is correct [Option ID = 34112]

27) The Agroforestry system used to be advantageous when land equivalent ratio is

[Question ID = 16029][Question Description = 127_149_FAT_SEP22_Q27]

1. >1
[Option ID = 34113]
2. <1
[Option ID = 34114]
3. $=1$
[Option ID = 34115]
4. -1 to $+1$
[Option ID = 34116]

28) Application of the 4 “I” criteria are key to determine an agroforestry practice

- A. Interactive
- B. Integrated
- C. Intensive
- D. Income
- E. Intentional

Choose the *correct* answer from the options given below:

[Question ID = 16030][Question Description = 128_149_FAT_SEP22_Q28]

1. A, B, C, D and E [Option ID = 34117]
2. A, B, C and E only [Option ID = 34118]
3. A, C, D and E only [Option ID = 34119]
4. A, C and E only [Option ID = 34120]

29) Which of the following is known as “King of Spice”?[Question ID = 16031][Question Description = 129_149_FAT_SEP22_Q29]

1. *Elettaria cardamomum* [Option ID = 34121]

2. *Piper longum* [Option ID = 34122]
3. *Piper nigrum* [Option ID = 34123]
4. *Cinnamomum zeylanicum* [Option ID = 34124]

30) The root ofcontains an alkaloid 'resperine' which is used for lowering blood pressure and hypertension.
[Question ID = 16032][Question Description = 130_149_FAT_SEP22_Q30]

1. *Rauwolfia serpentina* [Option ID = 34125]
2. *Abrus precatorius* [Option ID = 34126]
3. *Antiaris toxicaria* [Option ID = 34127]
4. *Juglans regia* [Option ID = 34128]

31) Which is/are used for extraction of timber from nullahs where quantity of water is less?

[Question ID = 16033][Question Description = 131_149_FAT_SEP22_Q31]

1. Floating [Option ID = 34129]
2. Rafting [Option ID = 34130]
3. Booms [Option ID = 34131]
4. Wet slides [Option ID = 34132]

32) The code '4B2B' of watershed represents/cover

[Question ID = 16034][Question Description = 132_149_FAT_SEP22_Q32]

1. Amavathy sub-catchment [Option ID = 34133]
2. Noyyal sub-catchment [Option ID = 34134]
3. Bhavani taluk [Option ID = 34135]
4. Dharpuram taluk [Option ID = 34136]

33) The pest *Hoplocerambyx spinicornis* is associated with the tree species

[Question ID = 16035][Question Description = 133_149_FAT_SEP22_Q33]

1. *Acacia nilotica* [Option ID = 34137]
2. *Tectona grandis* [Option ID = 34138]
3. *Shorea robusta* [Option ID = 34139]
4. *Cedrus deodara* [Option ID = 34140]

34) Given below are two statements

Statement I: Broadly, a working plan involves survey and assessment of the past results, present facts, resources and constraints.

Statement II: A working plan deals with long term planning at national or to state level to ensure continuity of purpose and policy.

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 16036][Question Description = 134_149_FAT_SEP22_Q34]

1. Both Statement I and Statement II are true [Option ID = 34141]
2. Both Statement I and Statement II are false [Option ID = 34142]
3. Statement I is true but Statement II is false [Option ID = 34143]
4. Statement I is false but Statement II is true [Option ID = 34144]

35) The principle of Progressive Yield is _____ in nature.[Question ID = 16037][Question Description = 135_149_FAT_SEP22_Q35]

1. Static [Option ID = 34145]
2. Invariable [Option ID = 34146]
3. Uniform [Option ID = 34147]
4. Dynamic [Option ID = 34148]

36) Match List I with List II

List I	List II
Method	Basis
A. Floating Periodic Method	I. Volume and increment of whole growing stock
B. Simmon's Modification	II. Increment
C. Biolley's Check Method	III. Volume
D. Karl's Formula	IV. Area and Volume

Choose the correct answer from the options given below:

[Question ID = 16038][Question Description = 136_149_FAT_SEP22_Q36]

1. A -I, B -II , C -III, D -IV [Option ID = 34149]
2. A -IV, B -III, C -II, D -I [Option ID = 34150]
3. A -III, B -I, C -II, D -IV [Option ID = 34151]
4. A - II, B -IV, C -I, D -III [Option ID = 34152]

37) Given below are two statements

Statement I: Financial rotation yield the highest net return on the invested capital.

Statement II: While rotation of highest income/revenue yields the highest average annual gross or net revenue irrespective of the capital value of the forest.

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 16039][Question Description = 137_149_FAT_SEP22_Q37]

1. Both Statement I and Statement II are true [Option ID = 34153]
2. Both Statement I and Statement II are false [Option ID = 34154]
3. Statement I is true but Statement II is false [Option ID = 34155]
4. Statement I is false but Statement II is true [Option ID = 34156]

38) The only floating National Park of the World is

[Question ID = 16040][Question Description = 138_149_FAT_SEP22_Q38]

1. Keibul Lamjao National Park, Manipur [Option ID = 34157]
2. Raimona National Park, Assam [Option ID = 34158]
3. Komodo National Park, Indonesia [Option ID = 34159]
4. Kalbarri National Park, Australia [Option ID = 34160]

39) Protection of specified plants is mentioned under section.....of Wildlife Protection Act, 1972.[Question ID = 16041]

[Question Description = 139_149_FAT_SEP22_Q39]

1. Section 21 [Option ID = 34161]
2. Section 12 [Option ID = 34162]
3. Section 17 [Option ID = 34163]
4. Section 18 [Option ID = 34164]

40) The subject of the Forest and the Protection of Wildlife has been moved from the State List to the Concurrent List under:[Question ID = 16042][Question Description = 140_149_FAT_SEP22_Q40]

1. 24th Constitutional Amendment Act, 1967 [Option ID = 34165]
2. 41st Constitutional Amendment Act, 1978 [Option ID = 34166]
3. 51st Constitutional Amendment Act, 1990 [Option ID = 34167]
4. 42nd Constitutional Amendment Act, 1976 [Option ID = 34168]

41) As per the International Union for Conservation of Nature and Natural Resources (IUCN) Red List of Threatened Species, which among the following DOES NOT fall under critically endangered category

[Question ID = 16043][Question Description = 141_149_FAT_SEP22_Q41]

1. Malabar Civet [Option ID = 34169]
2. Himalayan Quail [Option ID = 34170]
3. Siberian Crane [Option ID = 34171]
4. One horned Rhinoceros [Option ID = 34172]

42) Which one is an *ex-situ* method of biodiversity conservation?

[Question ID = 16044][Question Description = 142_149_FAT_SEP22_Q42]

1. National Parks [Option ID = 34173]
2. Sacred grooves [Option ID = 34174]
3. Croplands [Option ID = 34175]
4. Sanctuaries [Option ID = 34176]

43) Given below are two statements

Statement I: The movement of alleles from one population or species to another is facilitated by pollen and seed dispersal.

Statement II: The forces of mutation and genetic drift tend to decrease genetic variability in nature.

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 16045][Question Description = 143_149_FAT_SEP22_Q43]

1. Both Statement I and Statement II are true [Option ID = 34177]
2. Both Statement I and Statement II are false [Option ID = 34178]
3. Statement I is true but Statement II is false [Option ID = 34179]

4. Statement I is false but Statement II is true [Option ID = 34180]

44) How many wetlands has been declared as Ramsar sites in India?[Question ID = 16046][Question Description = 144_149_FAT_SEP22_Q44]

1. 47 [Option ID = 34181]
2. 42 [Option ID = 34182]
3. 49 [Option ID = 34183]
4. 35 [Option ID = 34184]

45) Given below are two statements

Statement I: Under Paris Agreement, Govt. of India is committed for reducing fossil fuel consumption 33-35 per cent substantially by 2030 of its 2005 level

Statement II: The Paris Agreement works on a 5- year cycle of increasingly ambitious climate action carried out by countries

In light of the above statements, choose the *correct* answer from the options given below

[Question ID = 16047][Question Description = 145_149_FAT_SEP22_Q45]

1. Both Statement I and Statement II are true [Option ID = 34185]
2. Both Statement I and Statement II are false [Option ID = 34186]
3. Statement I is true but Statement II is false [Option ID = 34187]
4. Statement I is false but Statement II is true [Option ID = 34188]

46) Where the United Nations Framework Convention on Climate Change (UNFCCC) CoP26 was held at

[Question ID = 16048][Question Description = 146_149_FAT_SEP22_Q46]

1. Copenhagen, Denmark [Option ID = 34189]
2. Montreal, Canada [Option ID = 34190]
3. Glasgow, Scotland [Option ID = 34191]
4. Oslo, Norway [Option ID = 34192]

47) Given below are two statements

Statement I: Net O₂ release (Tonnes ha⁻¹ yr⁻¹) = Net Carbon sequestered (Tonnes ha⁻¹ yr⁻¹) x (32/12)

Statement II: Net CO₂ mitigated in biomass = Fresh biomass estimated x 0.5 x 3.67

In light of the above statements, choose the *most appropriate* answer from the options given below

[Question ID = 16049][Question Description = 147_149_FAT_SEP22_Q47]

1. Both Statement I and Statement II are correct [Option ID = 34193]
2. Both Statement I and Statement II are incorrect [Option ID = 34194]
3. Statement I is correct but Statement II is incorrect [Option ID = 34195]
4. Statement I is incorrect but Statement II is correct [Option ID = 34196]

48) Which is the CO₂ fixation enzyme in C₃ plants?

[Question ID = 16050][Question Description = 148_149_FAT_SEP22_Q48]

1. PEP carboxylase [Option ID = 34197]
2. Rubisco [Option ID = 34198]
3. ATP synthase [Option ID = 34199]
4. Phosphoenolpyruvate [Option ID = 34200]

49) Reduction in value of which of the following is given importance while dealing with small sampling size

[Question ID = 16051][Question Description = 149_149_FAT_SEP22_Q49]

1. Type I error [Option ID = 34201]
2. Type II error [Option ID = 34202]
3. Power of the test [Option ID = 34203]
4. Both I & III [Option ID = 34204]

50) Which method of computing correlation coefficient is NOT restricted by normally distributed nature within variable sets?

[Question ID = 16052][Question Description = 150_149_FAT_SEP22_Q50]

1. Covariance correlation coefficient [Option ID = 34205]
2. Karl- Pearson correlation coefficient [Option ID = 34206]
3. Spearman correlation coefficient [Option ID = 34207]
4. Polychoric or tetrachoric correlation coefficient [Option ID = 34208]

