

Test Paper : III  
Test Subject : ENVIRONMENTAL SCIENCE  
Test Subject Code : K-2913

Test Booklet Serial No. : \_\_\_\_\_  
OMR Sheet No. : \_\_\_\_\_  
Roll No. 

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(Figures as per admission card)

**Name & Signature of Invigilator/s**

Signature: \_\_\_\_\_  
Name : \_\_\_\_\_

Signature : \_\_\_\_\_  
Name : \_\_\_\_\_

**Paper : III**  
**Subject : ENVIRONMENTAL SCIENCE**

Time : 2 Hours 30 Minutes

Maximum Marks : 150

Number of Pages in this Booklet : 16

Number of Questions in this Booklet : 75

**ಅಭ್ಯರ್ಥಿಗಳಿಗೆ ಸೂಚನೆಗಳು**

- ಈ ಪುಟದ ಮೇಲ್ಭಾಗದಲ್ಲಿ ಒದಗಿಸಿದ ಸ್ಥಳದಲ್ಲಿ ನಿಮ್ಮ ರೋಲ್ ನಂಬರನ್ನು ಬರೆಯಿರಿ.
- ಈ ಪತ್ರಿಕೆಯು ಬಹು ಆಯ್ಕೆ ವಿಧದ ಎಪ್ಪತ್ತೈದು ಪ್ರಶ್ನೆಗಳನ್ನು ಒಳಗೊಂಡಿದೆ.
- ಪರೀಕ್ಷೆಯ ಪ್ರಾರಂಭದಲ್ಲಿ ಪ್ರಶ್ನೆಪುಸ್ತಕವನ್ನು ನಿಮಗನಿಡಲಾಗುವುದು. ಮೊದಲ 5 ನಿಮಿಷಗಳಲ್ಲಿ ನೀವು ಪುಸ್ತಕವನ್ನು ತೆರೆಯಲು ಮತ್ತು ಕೆಳಗಿನಂತೆ ಕಡ್ಡಾಯವಾಗಿ ಪರೀಕ್ಷಿಸಲು ಕೋರಲಾಗಿದೆ.  
(i) ಪ್ರಶ್ನೆ ಪುಸ್ತಕಕ್ಕೆ ಪ್ರವೇಶವಾಕಾಶ ಪಡೆಯಲು, ಈ ಹೊದಿಕೆ ಪುಟದ ಅಂಚಿನ ಮೇಲಿರುವ ಪೇಪರ್ ಸೀಲನ್ನು ಹರಿಯಿರಿ. ಸ್ವಿಚ್ಚರ್ ಸೀಲ್ ಇಲ್ಲದ ಪ್ರಶ್ನೆಪುಸ್ತಕ ಸ್ವೀಕರಿಸಬೇಡಿ. ತೆರದ ಪುಸ್ತಕವನ್ನು ಸ್ವೀಕರಿಸಬೇಡಿ.  
(ii) ಪುಸ್ತಕಿಯಲ್ಲಿನ ಪ್ರಶ್ನೆಗಳ ಸಂಖ್ಯೆ ಮತ್ತು ಪುಟಗಳ ಸಂಖ್ಯೆಯನ್ನು ಮುಖಪುಟದ ಮೇಲೆ ಮುದ್ರಿಸಿದ ಮಾಹಿತಿಯೊಂದಿಗೆ ತಾಳಿ ನೋಡಿರಿ. ಪುಟಗಳು/ಪ್ರಶ್ನೆಗಳು ಕಾಣೆಯಾದ, ಅಥವಾ ದ್ವಿಪ್ರತಿ ಅಥವಾ ಅನುಕ್ರಮವಾಗಿಲ್ಲದ ಅಥವಾ ಇತರ ಯಾವುದೇ ವ್ಯತ್ಯಾಸದ ದೋಷಪೂರಿತ ಪುಸ್ತಕಿಯನ್ನು ಕೂಡಲೇ 5 ನಿಮಿಷದ ಅವಧಿ ಒಳಗೆ, ಸಂವಿವೇಕಕರಿಯದ ಸರಿ ಇರುವ ಪುಸ್ತಕಿಗೆ ಬದಲಾಯಿಸಿಕೊಳ್ಳಬೇಕು. ಆ ಬಳಿಕ ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯನ್ನು ಬದಲಾಯಿಸಲಾಗುವುದಿಲ್ಲ. ಯಾವುದೇ ಹೆಚ್ಚು ಸಮಯವನ್ನೂ ಕೊಡಲಾಗುವುದಿಲ್ಲ.
- ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ (A), (B), (C) ಮತ್ತು (D) ಎಂದು ಗುರುತಿಸಿದ ನಾಲ್ಕು ಪರ್ಯಾಯ ಉತ್ತರಗಳಿವೆ. ನೀವು ಪ್ರಶ್ನೆಯ ಎದುರು ಸರಿಯಾದ ಉತ್ತರದ ಮೇಲೆ, ಕೆಳಗೆ ಕಾಣಿಸಿದಂತೆ ಅಂಡಾಕೃತಿಯನ್ನು ಕಪ್ಪಾಗಿಸಬೇಕು.  
ಉದಾಹರಣೆ : 

A	B	●	D
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(C) ಸರಿಯಾದ ಉತ್ತರವಾಗಿದ್ದಾಗ.
- ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಗಳನ್ನು, ಪತ್ರಿಕೆ III ಪ್ರಶ್ನಿಕೆಯೊಳಗೆ ಕೊಟ್ಟಿರುವ OMR ಉತ್ತರ ಹಾಳೆಯಲ್ಲಿ ಮಾತ್ರವೇ ಸೂಚಿಸತಕ್ಕದ್ದು. OMR ಉತ್ತರ ಹಾಳೆಯಲ್ಲಿನ ಅಂಡಾಕೃತಿ ಹೊರತುಪಡಿಸಿ ಬೇರೆ ಯಾವುದೇ ಸ್ಥಳದಲ್ಲಿ ಗುರುತಿಸಿದರೆ, ಅದರ ಮೌಲ್ಯಮಾಪನ ಮಾಡಲಾಗುವುದಿಲ್ಲ.
- OMR ಉತ್ತರ ಹಾಳೆಯಲ್ಲಿ ಕೊಟ್ಟ ಸೂಚನೆಗಳನ್ನು ಜಾಗರೂಕತೆಯಿಂದ ಓದಿರಿ.
- ಎಲ್ಲಾ ಕರಡು ಕೆಲಸವನ್ನು ಪುಸ್ತಕಿಯ ಕೊನೆಯಲ್ಲಿ ಮಾಡತಕ್ಕದ್ದು.
- ನಿಮ್ಮ ಗುರುತನ್ನು ಬಹಿರಂಗಪಡಿಸಬಹುದಾದ ನಿಮ್ಮ ಹೆಸರು ಅಥವಾ ಯಾವುದೇ ಚಿಹ್ನೆಯನ್ನು, ಸಂಗತವಾದ ಸ್ಥಳ ಹೊರತು ಪಡಿಸಿ, OMR ಉತ್ತರ ಹಾಳೆಯ ಯಾವುದೇ ಭಾಗದಲ್ಲಿ ಬರೆಯಬಾರದು, ನೀವು ಅನರ್ಪಣೆಗೆ ಬಾಧ್ಯರಾಗಿರುತ್ತೀರಿ.
- ಪರೀಕ್ಷೆಯು ಮುಗಿದನಂತರ, ಕಡ್ಡಾಯವಾಗಿ OMR ಉತ್ತರ ಹಾಳೆಯನ್ನು ಸಂವಿವೇಕಕರಿಗೆ ನೀವು ಹಿಂತಿರುಗಿಸಬೇಕು ಮತ್ತು ಪರೀಕ್ಷಾ ಕೊಠಡಿಯ ಹೊರಗೆ OMR ನ್ನು ನಿಮ್ಮೊಂದಿಗೆ ಕೊಂಡೊಯ್ಯ ಕೂಡದು.
- ಪರೀಕ್ಷೆಯ ನಂತರ, ಪರೀಕ್ಷಾ ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯನ್ನು ಮತ್ತು ನಕಲು OMR ಉತ್ತರ ಹಾಳೆಯನ್ನು ನಿಮ್ಮೊಂದಿಗೆ ತೆಗೆದುಕೊಂಡು ಹೋಗಬಹುದು.
- ನೀಲಿ/ಕಪ್ಪು ಬಾಲ್ ಪಾಯಿಂಟ್ ಪೆನ್ ಮಾತ್ರವೇ ಉಪಯೋಗಿಸಿರಿ.
- ಕ್ಯಾಲ್ಕುಲೇಟರ್ ಅಥವಾ ಲಾಗ್ ಟೇಬಲ್ ಇತ್ಯಾದಿಯ ಉಪಯೋಗವನ್ನು ನಿಷೇಧಿಸಲಾಗಿದೆ.
- ಸರಿ ಅಲ್ಲದ ಉತ್ತರಗಳಿಗೆ ಋಣ ಅಂಕ ಇರುವುದಿಲ್ಲ.

**Instructions for the Candidates**

- Write your roll number in the space provided on the top of this page.
- This paper consists of seventy five multiple-choice type of questions.
- At the commencement of examination, the question booklet will be given to you. In the first 5 minutes, you are requested to open the booklet and compulsorily examine it as below :  
(i) To have access to the Question Booklet, tear off the paper seal on the edge of this cover page. Do not accept a booklet without sticker-seal and do not accept an open booklet.  
(ii) **Tally the number of pages and number of questions in the booklet with the information printed on the cover page. Faulty booklets due to pages/questions missing or duplicate or not in serial order or any other discrepancy should be got replaced immediately by a correct booklet from the invigilator within the period of 5 minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time will be given.**
- Each item has four alternative responses marked (A), (B), (C) and (D). You have to darken the oval as indicated below on the correct response against each item.  
**Example :**

A	B	●	D
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where (C) is the correct response.
- Your responses to the question of Paper III are to be indicated in the **OMR Sheet kept inside the Booklet**. If you mark at any place other than in the ovals in OMR Answer Sheet, it will not be evaluated.
- Read the instructions given in OMR carefully.
- Rough Work is to be done in the end of this booklet.
- If you write your name or put any mark on any part of the OMR Answer Sheet, except for the space allotted for the relevant entries, which may disclose your identity, you will render yourself liable to disqualification.
- You have to return the test OMR Answer Sheet to the invigilators at the end of the examination compulsorily and must NOT carry it with you outside the Examination Hall.
- You can take away question booklet and carbon copy of OMR Answer Sheet soon after the examination.
- Use only Blue/Black Ball point pen.**
- Use of any calculator or log table etc., is prohibited.**
- There is no negative marks for incorrect answers.**



## ENVIRONMENTAL SCIENCE Paper – III

**Note :** This paper contains **seventy-five (75)** objective type questions. **Each** question carries **two (2)** marks. **All** questions are **compulsory**.

1. Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R).

**Assertion (A) :** The earth can be divided in to a number of reservoirs characterised by a distinctive composition which reflects that earth has been unmixing ever since it was formed.

**Reason (R) :** Each of these reservoirs are continually evolving in size and composition as each reservoir interacts with each other.

Choose the correct answer.

**Code :**

- (A) Both (A) and (R) are true and (R) is the correct explanation
- (B) Both (A) and (R) are true, but (R) is not the correct explanation
- (C) (A) is true, but (R) is false
- (D) (A) is false, but (R) is true

2. What is the aim of Basal convention ?

- (A) To protect human health and the environment against hazardous waste
- (B) To control occupational hazards
- (C) To curb chemical production
- (D) To introduce biopesticides

3. Match the List-I and List-II which contains Acts and year of enforcement.

List-I	List-II
a) Environmental Protection Act	i) 1988
b) Factories Act	ii) 1986
c) Wild Life Protection Act	iii) 1972
d) Motor Vehicle Act	iv) 1948

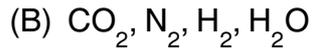
Identify the correct code

**Code :**

- |     | (a) | (b) | (c) | (d) |
|-----|-----|-----|-----|-----|
| (A) | i   | ii  | iii | iv  |
| (B) | ii  | iv  | iii | i   |
| (C) | ii  | iii | i   | iv  |
| (D) | iv  | iii | ii  | i   |



4. Stanley Miller simulated early atmosphere using



5. The process of formation of sedimentary rock proceeds in which of the following order.

- a) Deposition
- b) Transportation
- c) Diagenesis and lithification
- d) Weathering

Identify the correct code

**Codes :**

(A) a b c d

(B) a c d b

(C) c d b a

(D) d b a c

6. Lactic acid bacteria lacks

- (A) Cellwall
- (B) Peptidoglycan
- (C) Cytochromes
- (D) Lipids

7. Which of the following is not a measure of central tendency ?

- (A) Harmonic mean
- (B) Mode
- (C) Standard deviation
- (D) Median

8. Which of the following devices is most suitable for controlling emission of particulate having diameter less than one micron ?

- (A) Cyclone
- (B) Venturi scrubber
- (C) Electrostatic precipitator
- (D) Bag filter



9. Consider the following statements regarding development models.

- i) The regression method is suitable for semi-dependent variables
- ii) The purpose of correlation analysis is to compare one or more functions and compute their relationships with respect to a spatial or temporal lag
- iii) Cluster analysis provides a useful means for detecting groups of singular objects in the single dimensional space

Which is the correct statement ?

- (A) Only i) is correct
- (B) One and ii) are correct
- (C) One and iii) are correct
- (D) All are correct

10. Consider the following statements regarding EIA Guidelines 1994.

- a) Schedule-I of the guidelines list the projects requiring environment clearance
  - b) EIA notification is applicable to all the States/Union territories
  - c) Responsibility of implementation of EIA notification lies with MOEF of these statements
- (A) Only a) is correct
  - (B) b) and c) are correct
  - (C) a) and c) are correct
  - (D) All are correct

11. Demography is the statistical study of

- (A) Geography
- (B) Population growth
- (C) Local concentration of individuals
- (D) Family pedigrees

12. Of the following types of microbes, which one has been genetically altered to protect crop from frost, marine pollution and organic waste.

- (A) Pseudomonas
- (B) Escherichia Coli
- (C) Thiobacillus
- (D) Klebsiella

13. Rain forests also known as

- (A) Earths lungs
- (B) Kidneys of the landscape
- (C) Treasures of the earth
- (D) Green budget



14. Which of the following river water is in dispute ?
- (A) Brahma Putra – India and Bangladesh
  - (B) Mullaperiyardam – Karnataka and Tamilnadu
  - (C) Cauvery – Tamilnadu and Karnataka
  - (D) Krishna river – Karnataka and Andhra
15. Which of the following activities held at stockholm 1972 ?
- (A) Kyotoprotocol
  - (B) Ramsar convention
  - (C) UN conference on human environment
  - (D) Convention on Biodiversity
16. Which of the following forests are known for the religious importance ?
- (A) Sacred groves
  - (B) Urban parks
  - (C) Lalbagh garden
  - (D) Social forests
17. Maximum Salt tolerant organisms are
- (A) Acidophiles
  - (B) Stenohaline
  - (C) Euryhaline
  - (D) Alkaliphiles
18. Who was the first to suggest the setting up of “Environmental Courts” in the country to deal exclusively with crimes relating to environment ?
- (A) Menaka Gandhi
  - (B) Medha Patkar
  - (C) Bhagawathi
  - (D) Sundarlal Bahuguna
19. Ringelmann chart is used in measuring
- (A) Relative humidity
  - (B) Odour intensity
  - (C) Smoke density
  - (D) Movement of pollutants
20. Maximum contribution of oxygen is
- (A) Grassland
  - (B) Phytoplankton
  - (C) Dense forest
  - (D) Herbs and Shrubs



21. Where is the Indian institute of forest management located ?
- (A) Shimla  
(B) Karaikudi  
(C) Bhopal  
(D) Mysore
22. The largest brackish water lagoon in Asia is
- (A) Pulikat lake  
(B) Chilka lake  
(C) Sukhna lake  
(D) Sultanpur lake
23. Which of the following is free floating hydrophyte ?
- (A) Sagiltaria  
(B) Typha  
(C) Spirodella  
(D) Najar
24. El-Nino is related with
- (A) Tsunami  
(B) Oceanic current  
(C) Desert storm  
(D) Fast moving tide
25. The Exchangeable Sodium Ratio (ESR) can be calculated as
- (A)  $ESR = \frac{\text{Exchangeable Na}^+}{\sqrt{\text{Exchangeable (Ca}^{+2} + \text{Mg}^{2+})}}$   
(B)  $ESR = \frac{\text{Exchangeable (Ca}^{+2} + \text{Mg}^{2+})}{\text{Exchangeable Na}^+}$   
(C)  $ESR = \frac{\text{Exchangeable Na}^+}{\text{Exchangeable (Ca}^{+2} + \text{Mg}^{2+})}$   
(D)  $ESR = \frac{\text{Exchangeable Na}^+}{\text{Exchangeable (Ca}^{+2} + \text{K}^+)}$
26. Species most vulnerable to extinction from human activities are those with
- (A) High population growth rate  
(B) Large niches  
(C) Low carrying capacity  
(D) Many natural predators



27. World Wide Life Fund was organised by UNESCO in
- (A) 1983
  - (B) 1915
  - (C) 1931
  - (D) 1961
28. In India where one can find Siberian crane ?
- (A) Chilka lake
  - (B) Ranganthitoo Bird Sanctuary
  - (C) Sultanpur lake Bird Sanctuary
  - (D) Keoladeo Bird Sanctuary
29. Which of the following is most likely to result from destruction of wetlands surrounding a river ?
- (A) A decreased sediment load in the river
  - (B) A decrease in the level of pollutants
  - (C) Increase of diversity of aquatic species
  - (D) An increased frequency of the flooding of the river valley
30. Most of the volcanism in the world is associated with
- (A) Mid continental hot spots
  - (B) Faulting
  - (C) Plate boundaries
  - (D) Aquifer depletion
31. Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R).
- Assertion (A)** : Atmosphere protect life on earth.
- Reason (R)** : The ozone layer in the stratosphere absorbs the UV-radiation.
- Codes :**
- (A) Both (A) and (R) are correct and (R) is the correct explanation of (A)
  - (B) Both (A) and (R) are correct, but (R) is not correct explanation of (A)
  - (C) (A) is true but (R) is false
  - (D) (A) is false but (R) is true
32. Karst landforms are generally form on the bedrock made up of
- (A) Granites
  - (B) Basalts
  - (C) Carbonates
  - (D) Sandstones



33. Match the following which is showing zonation of the sea and its depth.

List-I	List-II
a) Epipelagic	i) < 200 mts
b) Mesopelagic	ii) > 6000 mts
c) Bathyal	iii) 1000-4000 mts
d) Abyssal	iv) 200-1000 mts
e) Hadal	v) Below 6000 mts

**Codes :**

- (A) a – i, b – ii, c – iii, d – iv, e – v
- (B) a – i, b – iii, c – ii, d – iv, e – v
- (C) a – v, b – ii, c – iii, d – iv, e – i
- (D) a – ii, b – iii, c – i, d – iv, e – v

34. Which of the following is called as fools gold ?

- (A) Pyrolite
- (B) Chalcopyrite
- (C) Pyrite
- (D) Arsenopyrite

35. Utilisation of natural resources in moderate manner remaining something for the next generation is termed as

- (A) Resettlement
- (B) Rehabilitation
- (C) Sustainable development
- (D) Mutual development

36. Soft plastic toys may contain which probable carcinogenic compound used as plasticizers ?

- (A) Vinyl chlorides
- (B) Pthalates
- (C) Hypochlorites
- (D) Carbamates

37. Which of the following forests is known to be a “Forest that never burns” ?

- (A) Coniferous forest
- (B) Tropical rain forest
- (C) Deciduous forest
- (D) Tundra forest

38. Monitoring of dissolved oxygen is based on

- (A) Membrane electrode
- (B) Standard electrode
- (C) Nernst electrode
- (D) Potential electrode

39. ISO 31000 series denotes

- (A) Quality management
- (B) Risk management
- (C) Environmental management
- (D) Food safety management



40. Which part of the Indian Constitution it is mentioned that “the state shall endeavour to protect and improve the environment and to safeguard the forest and wild life of the country”.

- (A) Article 42 A
- (B) Article 51 A
- (C) Article 48 A
- (D) Article 56 B

41. The suspended growth system occurs in

- (A) Trickling filter
- (B) Activated sludge process
- (C) Rotating biological contactor
- (D) Disinfection system

42. National ambient air quality standards for suspended particulate matter in residential area for 24 hrs. is

- (A)  $80 \mu\text{g}/\text{m}^3$
- (B)  $140 \mu/\text{m}^3$
- (C)  $200 \mu\text{g}/\text{m}^3$
- (D)  $500 \mu/\text{m}^3$

43. Match the following List-I and List-II containing industries and recoverable materials.

List-I	List-II
a) Rayon	i) Carboxylic acid
b) Distillery	ii) Nickel salt
c) Textile	iii) Zinc
d) Petrochemical	iv) Yeast
e) Electroplating	v) Sodium hydroxide

**Codes :**

- (A) a – iii, b – iv, c – v, d – i, e – ii
- (B) a – ii, b – i, c – iii, d – iv, e – v
- (C) a – iii, b – iv, c – ii, d – v, e – i
- (D) a – i, b – ii, c – iii, d – iv, e – v

44. Which of the following gases in septic tank, oxidation of a waste produces ?

- (A)  $\text{H}_2\text{O}$ ,  $\text{H}_2\text{S}$ ,  $\text{CH}_4$  and  $\text{CO}_2$
- (B)  $\text{H}_2$ ,  $\text{H}_2\text{S}$ ,  $\text{CH}_4$  and  $\text{CO}$
- (C)  $\text{H}_2$ ,  $\text{H}_2\text{S}$ ,  $\text{CH}_3\text{OH}$  and  $\text{CO}_2$
- (D)  $\text{H}_2$ ,  $\text{H}_2\text{S}$ ,  $\text{CH}_4$  and  $\text{CO}_2$

45. Turbidity of water is caused due to

- (A) Settleable solids
- (B) Colloidal matter
- (C) Suspended solids
- (D) Dissolved solids



46. Water logging and soil salinity are the outcome of
- (A) Mining
  - (B) Over irrigation
  - (C) Soil erosion
  - (D) Acid rain
47. Coal miners suffers from an occupational disease known as
- (A) Psiderosis
  - (B) Bagassosis
  - (C) Necrosis
  - (D) Black lung disease
48. The National Institute of oceanography is presently situated at
- (A) Cochin
  - (B) Goa
  - (C) Vishakapatnam
  - (D) Kolkatta
49. Coal is ranked based on the percentage of
- (A) Peat material
  - (B) Carbon content
  - (C) Nitrogen
  - (D) Phosphorous
50. Laterite soils are rich in
- (A) Calcium
  - (B) Iron and Aluminium
  - (C) Silicates
  - (D) Sodium and Potassium
51. Vitrification is used to
- (A) Concentrate nuclear waste
  - (B) Dispose nuclear waste
  - (C) Immobilize nuclear waste
  - (D) Convert nuclear waste in to pellets
52. Cost benefit analysis of a project evaluates
- (A) Net profit of the project
  - (B) Net social benefit of the project
  - (C) Total benefit of the project
  - (D) Social cost of the project
53. Which of the environmental movement highlighted adverse effects of mining activities in the westernghats ?
- (A) To save Sharavathi Project
  - (B) To save Netravathi Project
  - (C) To save Bhadra Wild Life Sanctuary
  - (D) To save Tunga and Bhadra Rivers



54. National river conservation directorate scheme primarily initiated

- (A) Ganga Action Plan
- (B) Tunga Bhadra River Action Plan
- (C) Yamuna River Action Plan
- (D) Lake Development

55. The United States Environmental Protection Agency (USEPA) specifies a test called Toxicity Characteristic Leaching Procedure (TCLP) to determine the

- (A) Leaching characteristics of solid wastes
- (B) Toxicity of hazardous waste
- (C) Loss of toxicity with leaching
- (D) Toxicity of leachate of toxic waste

56. The energy content of the plant or animal material is determined using the instrument.

- (A) Bomb calorimeter
- (B) Photometer
- (C) Heat stress meter
- (D) Lux meter

57. Periphyton commonly found

- (A) Surface water
- (B) Attached on plant and animal surface
- (C) Submerged
- (D) Ground water

58. Match List-I and List-II containing deserts and located places.

**List-I**

**List-II**

- |                |                  |
|----------------|------------------|
| a) Sahara      | i) North Africa  |
| b) Kalhari     | ii) India        |
| c) Thar Desert | iii) Mangolia    |
| d) Gobi Desert | iv) South Africa |

**Codes :**

- (A) a – iv, b – i, c – ii, d – iii
- (B) a – ii, b – i, c – iii, d – iv
- (C) a – i, b – ii, c – iii, d – iv
- (D) a – iii, b – ii, c – i, d – iv



59. Coral reefs are formed by the members of the phylum

- (A) Echinodermata
- (B) Coelenterata
- (C) Protozoa
- (D) Crustacea

60. NEERI Head Office located at

- (A) Chennai
- (B) Hyderabad
- (C) Nagpur
- (D) New Delhi

61. Oligotrophic lakes are

- (A) Rich in nutrient
- (B) Poor in nutrient
- (C) Dominated floating vegetation
- (D) More turbid water

62. Who coined the term Plankton ?

- (A) Hansen in 1937
- (B) Raunkiaer
- (C) A. G. Tansley
- (D) Ernst Haeckel

63. Match List-I and List-II containing different quadrates and occurrence of species

**List-I**

**List-II**

- |                      |   |
|----------------------|---|
| a) List quadrat      | i) Density of sp                              |
| b) Count quadrat     | ii) Occurrence of species                     |
| c) Chart quadrat     | iii) Accurate periodic charting by photograph |
| d) Permanent quadrat | iv) Model of species distribution             |

**Codes :**

- (A) a – ii, b – i, c – iv, d – iii
- (B) a – i, b – ii, c – iii, d – iv
- (C) a – ii, b – i, c – iii, d – iv
- (D) a – iii, b – ii, c – i, d – iv



64. The Corbett National Park is famous for

- (A) Antelopes
- (B) Indian Bison
- (C) Barking Deer
- (D) Tigers

65. Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R) :

**Assertion (A)** : High organic matter content in soil always results in a high soil fertility.

**Reason (R)** : Organic matter content improves soil physical and chemical condition.

**Codes :**

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true

66. According to Darcy's law the ground water flow is assumed to be

- (A) Turbulent
- (B) Zigzag
- (C) Laminar
- (D) Both (A) and (C)

67. A Geological formation that can yield sufficient quantity of water depends upon its

- (A) Porosity
- (B) Permeability
- (C) Specific yield
- (D) Specific retention

68. Noise level of 100-130 db is

- (A) Very loud
- (B) Uncomfortably loud
- (C) Painful
- (D) Untolerable



- 69.** In the bogs, only those animals and plants are present which can tolerate the
- (A) Acidic condition
  - (B) Alkaline condition
  - (C) Neutral condition
  - (D) Organic rich condition
- 70.** Barrier reefs are formed when some marine organisms secrete
- (A) Potassium rich matter
  - (B) Sulphur rich matter
  - (C) Silica rich matter
  - (D) Calcium rich matter
- 71.** Which is the Worlds Oldest National Park ?
- (A) Corbette National Park
  - (B) Yellow Stone National Park
  - (C) Arkasas National Park
  - (D) Keibul Lamjo National Park
- 72.** Where was “Mitti bachao” movement launched in India ?
- (A) Maharashtra
  - (B) Karnataka
  - (C) Bihar
  - (D) Madhya Pradesh
- 73.** Which of the following is not a rain water harvesting method ?
- (A) Checkbund
  - (B) Agricultural pond
  - (C) Roof top
  - (D) Run off water method
- 74.** Which Indian Army wing has taken up the task of preserving and restoring the ecology of the country ?
- (A) Border Security Force
  - (B) Territorial Army
  - (C) Central Reserve Police Force
  - (D) Indo-Tibetian Boarder Force
- 75.** Under which Section of the manufacture, storage and import of hazardous chemicals rule 1989 is, it is now mandatory to prepare on-site emergency plans by the industries ?
- (A) 12 and 13
  - (B) 13 and 14
  - (C) 14 and 15
  - (D) 15 and 16



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