

Name of Applicant Answer Sheet No.

Application ID : Signature of Applicant :

Date of Examination: Signature of the Invigilator(s)
1.

Time of Examination :
2.

Duration : 1 Hour]

[Maximum Marks : 50

IMPORTANT INSTRUCTIONS

- (i) The question paper is in the form of Test-Booklet containing **50 (Fifty)** questions. All questions are compulsory. Each question carries four answers marked (A), (B), (C) and (D), out of which only one is correct.
- (ii) On receipt of the Test-Booklet (Question Paper), the candidate should immediately check it and ensure that it contains all the pages, i.e., **50** questions. Discrepancy, if any, should be reported by the candidate to the invigilator immediately after receiving the Test-Booklet.
- (iii) A separate Answer-Sheet is provided with the Test-Booklet/Question Paper. On this sheet there are **50** rows containing four circles each. One row pertains to one question.
- (iv) The candidate should write his/her Application number at the places provided on the cover page of the Test-Booklet/Question Paper and on the Answer-Sheet and **NOWHERE ELSE**.
- (v) No second Test-Booklet/Question Paper and Answer-Sheet will be given to a candidate. The candidates are advised to be careful in handling it and writing the answer on the Answer-Sheet.
- (vi) For every correct answer of the question **One (1) mark will be awarded**. For every unattempted question, Zero (0) mark shall be awarded. **There is no Negative Marking**.
- (vii) Marking shall be done only on the basis of answers responded on the Answer-Sheet.
- (viii) To mark the answer on the Answer-Sheet, candidate should **darken** the appropriate circle in the row of each question with Blue or Black pen.
- (ix) For each question only **one** circle should be **darkened** as a mark of the answer adopted by the candidate. If more than one circle for the question are found darkened or with one black circle any other circle carries any mark, the question will be treated as cancelled.
- (x) The candidates should not remove any paper from the Test-Booklet/Question Paper. Attempting to remove any paper shall be liable to be punished for use of unfair means.
- (xi) Rough work may be done on the blank space provided in the Test-Booklet/Question Paper only.
- (xii) *Mobile phones (even in Switch-off mode) and such other communication/programmable devices are not allowed inside the examination hall.*
- (xiii) No candidate shall be permitted to leave the examination hall before the expiry of the time.

DO NOT OPEN THIS QUESTION BOOKLET UNTIL ASKED TO DO SO.

1. Lead and Mercury contribute to pollution of
 - (A) Air
 - (B) Noise
 - (C) Soil
 - (D) Water
2. Sustainable development may be divided into which of the following categories :
 - (A) Ecology, economy and environment
 - (B) Civilization, ecology and environment
 - (C) Environment, ecology and fairness
 - (D) Natural environment, economy and society
3. Which of the following human activity creates the environmental degradation with regional and global consequences :
 - (A) Agriculture
 - (B) Industrialisation
 - (C) Mining
 - (D) Urbanisation
4. Which of the following processes are responsible for causing rain :
 - (A) Condensation
 - (B) Evaporation
 - (C) Filtration
 - (D) Evaporation and condensation
5. Biogas formation does not include :
 - (A) Sulphur di-oxide
 - (B) Carbon di-oxide
 - (C) Hydrogen
 - (D) Methane
6. Which of the following is a non-renewable source of energy :
 - (A) Wind
 - (B) Solar
 - (C) Coal
 - (D) Bio-mass

7. Which of the following is used to cause artificial rain?
- (A) Silver oxide
 - (B) Aluminium chloride
 - (C) Hydrogen peroxide
 - (D) Silver iodide
8. Which of the following is the most harmful air pollutant produced by automobile exhaust :
- (A) NO_2
 - (B) CO_2
 - (C) SO_2
 - (D) CO
9. Water pollution is indicated by the amount of :
- (A) Hydrogen
 - (B) Oxygen
 - (C) BOD
 - (D) Nitrogen
10. The major cause of ozone depletion is :
- (A) CFC
 - (B) CO_2
 - (C) CH_4
 - (D) SO_2
11. GIS uses the information from which of the following sources :
- (A) Position information system
 - (B) Global information system
 - (C) Non-spatial information system
 - (D) Spatial information system
12. Which of the following is a server based hardware platform for GIS :
- (A) Google maps
 - (B) Arc GIS
 - (C) STAAD Pro
 - (D) Autodesk Revit

13. Which of the following is not correct about Koppen's climate classification :
- (A) ET-Tundra climate
 - (B) Cfb-Marine west coast climate
 - (C) Af-Tropical humid climate
 - (D) BS-Dry desert climate
14. Which of the following local wind is a katabatic wind :
- (A) Mistral
 - (B) Chinook
 - (C) Foehn
 - (D) Santa Ana
15. The dating and study of annual rings of trees is called :
- (A) Precession
 - (B) Succession
 - (C) Dendrochronology
 - (D) Anatomy
16. La Nina is a spanish word meaning :
- (A) The little girl
 - (B) The little boy
 - (C) The daughter of the ocean
 - (D) The son of the ocean
17. In which of the following fuels, the difference between gross calorific value and net calorific value is maximum :
- (A) Coal
 - (B) Diesel
 - (C) Petrol
 - (D) Natural gas
18. Biodiesel may be extracted from the plant named :
- (A) Sugarcane (*Sucharum officinarum*)
 - (B) Karanja (*Pongamia pinnata*)
 - (C) Wheat (*Triticum aestivum*)
 - (D) Babool (*Acacia indica*)

- 19.** Ecological niche of an organism represents :
- (A) Functional role in the ecological system
 - (B) The resource utilization
 - (C) Tolerable range of conditions
 - (D) All of these
- 20.** Which is the least preferred method of solid waste management according to environment benefits:
- (A) Recycling
 - (B) Landfills
 - (C) Composting
 - (D) Waste to energy
- 21.** Municipal solid waste mainly represents
- (A) Toxic waste
 - (B) Nontoxic waste
 - (C) Hazardous waste
 - (D) Non-hazardous waste
- 22.** Sludge bulking can be controlled by
- (A) Denitrification
 - (B) Aeration
 - (C) Chlorination
 - (D) Coagulation
- 23.** The aerobic method of mechanical composting practised in India is called :
- (A) Bhopal method
 - (B) Bangalore method
 - (C) Indore method
 - (D) Nagpur method
- 24.** Which of the following is the correct order of steps if EIA process :
- (A) Screening, EIA, Scoping, Public hearing, Issue of environmental clearance
 - (B) Screening, Scoping, EIA, Public hearing, Issue of environmental clearance
 - (C) Screening, Public hearing, Scoping, EIA, Issue of environmental clearance
 - (D) Screening, EIA, Screening, Public hearing, Issue of environmental clearance

25. Which EIA tool best identifies action-affect-impact relations?
- (A) SWOT
 - (B) Checklists
 - (C) Networks
 - (D) Interaction matrices
26. The environmental protection Act was passed in India in the year :
- (A) 1980
 - (B) 1984
 - (C) 1986
 - (D) 2002
27. Which of the following convention adopted for protection of ozone layer in 1985 :
- (A) Vienna convention
 - (B) Stockholm convention
 - (C) Basel convention
 - (D) Montreal convention
28. Basel convention deals with :
- (A) Ozone depletion
 - (B) Biological diversity
 - (C) Hazardous wastes and their disposal
 - (D) Persistent organic pollutants
29. The main aim of UNFCC is :
- (A) Stabilization of UN
 - (B) Stabilization of green house gases
 - (C) Stabilization of oxygen
 - (D) Stabilization of population
30. The Ramsar convention deals with
- (A) Wetlands
 - (B) Carbon footprint
 - (C) Biodiversity
 - (D) Wastelands

- 31.** Which of the following is parametric test
- (A) Wilcoxon-signed-rank test
 - (B) X^2 -test
 - (C) McNemar's test
 - (D) Paired t-test
- 32.** Which of the following statement is correct about Lotka-Volterra model :
- (A) Population of prey and predator are inversely proportional to each other
 - (B) Population of prey and predatory are directly proportional to each other
 - (C) There is a no phase difference between the prey and predator population
 - (D) Both the populations of prey and predator oscillate sinusoidically
- 33.** Noise pollution is measured in :
- (A) Ampere
 - (B) Joule
 - (C) Decibel
 - (D) Ohm
- 34.** Ozone day is observed on :
- (A) September 16
 - (B) April 22
 - (C) June 5
 - (D) November 17
- 35.** Ozone layer thickness is measured in :
- (A) Dobson units
 - (B) Decibels
 - (C) Nanometer
 - (D) Micrometer
- 36.** The force which acts against the highest possible level of population growth is :
- (A) Carrying capacity
 - (B) Saturation level
 - (C) Environmental resistances
 - (D) Population pressure

37. Palikaranai Marsh reserve forest and Pichavaram Magrove which were designated as Rambar sites are located in the state of :
- (A) Kerala
(B) Tamil Nadu
(C) Telangana
(D) Karnatka
38. Recently in which of the following national park cheetahs from Namibia are re-introduced
- (A) Ranthambore National Park
(B) Jim Korbett National Park
(C) Kuno Palpur National Park
(D) Sariska National Park
39. Shivalik Elephant reserve is located in :
- (A) Western ghats
(B) Uttarakhand
(C) Gujarat
(D) Odisha
40. Which of the following schemes has the purpose of a garbage free city :
- (A) Swachh Bharat Mission-rural
(B) Swachh Bharat Mission-urban phase-1
(C) Swachh Bharat Mission-urban phase-2
(D) None of these
41. In which place India mission was officially launched?
- (A) Kolkata
(B) Indore
(C) Lucknow
(D) Rajghat, New Delhi
42. Which of the following is not a phase of secondary succession :
- (A) Invasion
(B) Initiation
(C) Continuation
(D) Termination

- 43.** The natural place of an organism is called :
- (A) Habitat
 - (B) Niche
 - (C) Biome
 - (D) Ecotone
- 44.** Which of the following required maximum energy :
- (A) Primary consumer
 - (B) Primary producer
 - (C) Secondary consumer
 - (D) Decomposer
- 45.** Which of the following is not the characteristics of 'r' selected species :
- (A) Low survival rate of progenies
 - (B) Formation of a large number of progenies
 - (C) Quick reproduction
 - (D) Parental care
- 46.** Which of the following is not the characteristics of population
- (A) Stratification
 - (B) Sex ratio
 - (C) Natality
 - (D) Mortality
- 47.** Plant species with a wide range of genetic distribution evolve into a local population called as:
- (A) Sibling
 - (B) Population
 - (C) Ecotype
 - (D) Parapatric
- 48.** Which of the following is not a constituent of photochemical smog :
- (A) Polycyclic Aromatic Hydrocarbon
 - (B) Peroxy Benzoyl nitrate
 - (C) Peroxy Acetyl nitrate
 - (D) Ozone

49. The largest ecosystem is :

- (A) Hydrosphere
- (B) Lithosphere
- (C) Biosphere
- (D) Biome

50. El-Nina is :

- (A) Sea storm
- (B) Warm ocean current
- (C) Typhoon
- (D) Tropical disturbance.

ROUGH WORK