

**TDP / TDPH 1st Semester Exam., 2018**

**ENVIRONMENTAL STUDIES**

[EVSC]

(AECC Course)

PAPER : AECC - 1

**COMPULSORY**

(For B.A./B.Sc./B.Com.)

(Honours and General)

Question Booklet Set : A

Full Marks : 80

Time : 3 Hours

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|--------------------------------------|---|
| Roll Number :                        | <input type="text" value=" "/> |
| OMR Answer Sheet No. :               | <input type="text" value=" "/>  |
| (As printed in the OMR Answer Sheet) |   |

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| <i>Full Signature of the Candidate with date</i> | <i>Signature of the Invigilator with date</i> |
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Instructions for the Candidates given overleaf.



*Instructions for the Candidates*

1. Use **Black Ballpoint Pen** only for writing particulars of this Question Booklet and marking responses on the OMR Answer Sheet.
2. Fill in the particulars (on the side 1) of the OMR Answer Sheet as per instructions contained in the OMR Answer Sheet.
3. Write the Question Booklet Set No. at the specific space provided in the OMR Answer Sheet.
4. There are 80 (eighty) questions from Sl. No. 1 to 80 each carrying 1(one) mark.
5. Each question or incomplete statement is followed by 4 suggestive answers — [A], [B], [C] and [D] of which **only one** is correct. Mark the answer by **darkening the appropriate circle**.
6. The answers are to be recorded on the OMR Answer Sheet only. Mark your responses carefully since there is no chance of alteration/correction.
7. Marking of more than one answer against any question will be treated as incorrect response and no mark shall be awarded.
8. Use of eraser or whitener is strictly prohibited.
9. No part of the Question Booklet or the OMR Answer Sheet shall be detached or defaced under any circumstances.
10. Use of mobile phone, calculator, log table, compass, scale and any electronic gadget is strictly prohibited in the Examination Hall.
11. Question Booklet and the OMR Answer Sheet must be returned to the Invigilator before leaving the Examination Hall.
12. Adoption of unfair means in any form or violation of instruction as mentioned in Point No. 10 shall result into expulsion from the entire examination.
13. The candidate must ensure that the Question Booklet and the OMR Answer Sheet are signed by the Invigilator.
14. After opening the Question Booklet, check the total number of printed pages and report to the Invigilator in case of any discrepancy.

*Turn Over*

Answer *all* the questions.

Each question carries 1 mark.

$1 \times 40 = 40$

1. The word Environment is derived from the word "Environ" which means "Surrounding". The "Environ" is a —

- (A) French word
- (B) Latin word
- (C) German word
- (D) None of these

DO NOT WRITE

2. Baba Amte is associated with —

- (A) Apikko movements
- (B) Chipko movement
- (C) Narmada Bachao Movement
- (D) None of these

3. The amount of fresh water in the world is about —

- (A) 1%
- (B) 2.5%
- (C) 70%
- (D) 90%

4. Which one is Renewable energy ?

- (A) Biogas
- (B) Coal
- (C) Petroleum
- (D) None of these

Turn Over

5. Which one is surface water pool ?

- (A) Spring
- (B) Aquifer
- (C) River
- (D) Rainfall

6. A exhaustible renewable resource is —

- (A) Forest
- (B) Coal
- (C) Petroleum
- (D) Minerals

7. Planting of trees on unused farmland, rail and roadsides is —

- (A) Commercial Forestry
- (B) Agroforestry
- (C) Social Forestry
- (D) Deforestation

8. Ex-situ conservation —

- (A) Botanical garden
- (B) Sanctuaries
- (C) National Park
- (D) All of these

9. In Tripura, the number of Wildlife Sanctuary is —

- (A) 3
- (B) 2
- (C) 4
- (D) None of these

10. The term ecological pyramid was coined by —

- (A) Tansley
- (B) Elton
- (C) Darwin
- (D) Odum

11. Decomposers are —

- (A) Saprophytic
- (B) Autotrophic
- (C) Heterotrophic
- (D) None of these

12. Lichen is the indicator of —

- (A) Air Pollution
- (B) Water Pollution
- (C) Soil Pollution
- (D) None of these

13. The Forest (Conservation) Act was enacted in —

- (A) 1990
- (B) 2008
- (C) 1980
- (D) 1972

14. The Ministry of Environment and Forest was established in the year —

- (A) 1972
- (B) 1976
- (C) 2002
- (D) 1985

15. The term Blue Baby disease is related with —

- (A) Air Pollution
- (B) Soil Pollution
- (C) E-waste
- (D) Water Pollution

16. OTEC plant can be installed at —

- (A) Sea shore
- (B) Island
- (C) Below Sea Surface
- (D) All of these

17. Which of the following pair is host for nipah virus ?

- (A) Human, Wildlife
- (B) Foxes, Rodents
- (C) Bats, Pigs
- (D) Deer, Dog

18. Which of the following sector is largest emitter of GHGs ?

- (A) Agriculture
- (B) Energy
- (C) Industry
- (D) Waste

19. The main component of CNG is —

- (A) Methane
- (B) Propane
- (C) Ethane
- (D) Nitrogen

20. The Richter Scale is used for measuring of —

- (A) Flood
- (B) Landslide
- (C) Earthquake
- (D) Avalanche

Turn Over

21. Human Environment Conference — 1972 was held at —

- (A) Paris
- (B) Geneva
- (C) Stockholm
- (D) Rio-de Generio

22. What is the main cause of wildfires ?

- (A) Lightning strikes
- (B) Land slides
- (C) Humans
- (D) Earthquake

23. The outermost layer of the earth is —

- (A) Magma
- (B) Mantle
- (C) Crust
- (D) Solid iron core

24. Which one of the following is not a gaseous biogeochemical cycle in ecosystem ?

- (A) Nitrogen Cycle
- (B) Carbon Cycle
- (C) Sulphur Cycle
- (D) Strontium Cycle

25. The type of ecosystem with the highest mean plant productivity is —

- (A) Tropical rain forest
- (B) Temperate grassland
- (C) Desert
- (D) Tundra

26. The final stable community in ecological succession is —

- (A) Climax
- (B) Sere
- (C) Pioneers
- (D) Carnivores

27. IUCN headquarters is at —

- (A) Switzerland
- (B) France
- (C) Austria
- (D) USA

28. The most abundant greenhouse gas in earth's atmosphere —

- (A)  $\text{CO}_2$
- (B)  $\text{CH}_4$
- (C) Nitrous Oxide
- (D) Water Vapour

29. Increasing Skin Cancer and high mutation rate are the result of —

- (A) Ozone depletion
- (B) Acid Rain
- (C) CO Pollution
- (D) None of these

30. Study of human population is considered as —

- (A) Demography
- (B) Anthropology
- (C) Indian History
- (D) Geography of people

31. Which of the following is a prime health risks associated with greater UV radiation through the atmosphere due to depletion of stratospheric ozone?

- (A) Damage to digestive system
- (B) Increased liver cancer
- (C) Neurological disorder
- (D) Increased skin cancer

32. Which of the following is not a consequence of global warming?

- (A) Rising sea level
- (B) Increased agricultural productivity worldwide
- (C) Worsening health effects
- (D) all of the above are likely results of global warming

33. Sulphur di oxide in the atmosphere causes which ecological problem?

- (A) A loss of ozone layer at upper atmosphere
- (B) Reduces rain fall
- (C) Acid rain
- (D) None of these

34. Which of the following is a natural disaster?

- (A) Nuclear disasters
- (B) Hurricanes & typhoons
- (C) Epidemic
- (D) Chemical spill

35. Fossil fuel and metallic minerals are —

- (A) Renewable resource
- (B) Inexhaustible resources
- (C) Non-renewable resources
- (D) None of these

36. Deforestation generally decreases —

- (A) Rainfall
- (B) Soil erosion
- (C) Draught
- (D) Global warming

37. Burning of fossil fuel causes —

- (A) Air pollution
- (B) Global warming
- (C) Both (A) & (B)
- (D) None of these

38. Which gas is likely to be reduced in the atmosphere by deforestation?

- (A) Carbon dioxide
- (B) Nitrogen
- (C) Oxygen
- (D) Sulphur dioxide

39. Soil erosion can be prevented by —

- (A) Deforestation
- (B) Afforestation
- (C) Overgrazing
- (D) Removal of vegetation

40. "Ozone Hole" means —

- (A) Hole in the atmosphere
- (B) Destruction of ozone layer
- (C) Hole in the lithosphere
- (D) none of these

41. The historical monument that is affected by acid rain is —

- (A) Taj Mahal
- (B) Pyramid of Egypt
- (C) Pisa Tower
- (D) Golden Temple

42. Acid rain contains —

- (A) Sulphuric acid
- (B) Hydrochloric acid
- (C) Oxalic acid
- (D) Acetic acid

43. Official date of Earth Day is on —

- (A) April 22
- (B) March 21
- (C) May 22
- (D) June 05

44. Seed banks are examples for —

- (A) In-situ conservation
- (B) in-vivo conservation
- (C) ex-situ conservation
- (D) ex-vivo conservation

48. What is a responsible for habitat loss ?  
A) Deforestation  
B) Forest fragmentation as new towns are built  
C) Converting wetland into housing areas  
D) All of the above are correct

49. What is a scarce species?  
A) Species which have not been found anywhere in the world for the last 50 years  
B) Species with high likelihood of becoming endangered in the near future  
C) Species with least conservation but very little is known about them  
D) All of the above are correct

50. The Red Data book which lists endangered species is maintained by —  
A) IUCN  
B) IUCN  
C) IUCN  
D) IUCN

51. How many national parks are there in India ?  
A) One  
B) Two  
C) Three  
D) Four

49. What is the cause of biodiversity loss ?  
(A) Species lost their habitat  
(B) Poaching of wild animals  
(C) Environmental pollution  
(D) All of these

50. The international organization which mainly conducts research on biodiversity conservation is —  
(A) UNEP  
(B) RDB  
(C) IUCN  
(D) WWF

51. Head office of Zoological Survey of India is at —  
(A) Delhi  
(B) Mumbai  
(C) Kolkata  
(D) Chennai

52. First National Park in India is —  
(A) Jim Corbett National Park  
(B) Bandipur National Park  
(C) Gir National Park  
(D) Sunderbans National Park

53. The book "Origin of species" was written by —  
(A) Ralf Emerson  
(B) E.P. Odum  
(C) S. P. Godrej  
(D) Sir Charles Darwin

54. The term Ecology is derived from —  
(A) Greek language  
(B) French language  
(C) Latin language  
(D) none of these

55. In ecology, consumers are also known as —  
(A) Photoautotrophs  
(B) Saprotrophs  
(C) Heterotrophs  
(D) Reducers

56. The term ecosystem was introduced by —  
(A) Ernest Haeckel  
(B) E. P. Odum  
(C) A. G. Tansely  
(D) Ramdeo Mishra

57. An example of lotic system —  
(A) Pond  
(B) River  
(C) Lake  
(D) Reservoir

58. What is Plankton ?  
(A) Microscopic floating organisms - Plants and animals  
(B) Bottom dwelling aquatic organisms  
(C) Large plants in water  
(D) none of these

59. The water (prevention and control) pollution act came into force in the year —  
(A) 1972  
(B) 1977  
(C) 1974  
(D) 1981

60. The first earth summit was held in —  
(A) Stockholm, Sweden  
(B) Montreal, Canada  
(C) Rio de Janeiro, Brazil  
(D) Kyoto, Japan

61. Silent valley movement occurred in —

- (A) Maharashtra
- (B) Kerala
- (C) Karnataka
- (D) Assam

62. In Indian constitution which are the two articles for the protection of environment?

- (A) Article 41A and 50G
- (B) Article 48A and 51A(g)
- (C) Article 24A(g) and 43A
- (D) None of these

63. Which ecological pyramid is always upright?

- (A) Pyramid of number
- (B) Pyramid of biomass
- (C) Pyramid of energy
- (D) Pyramid of number and biomass

64. The order of basic processes involved in ecological succession is —

- (A) Nudation Invasion Competition Reaction Stabilization
- (B) Nudation Stabilization Competition Invasion Reaction
- (C) Invasion Nudation Competition Reaction Stabilization
- (D) Invasion Stabilization Competition Reaction Nudation

65. In ecological succession Pioneer communities means —

- (A) Communities which are found at the middle stages of ecological succession
- (B) Communities which starts the ecological succession
- (C) Communities which are found at the last stage of ecological succession
- (D) None of the above

66. Name one famous Environmental Lawyer of India —

- (A) Medha Patkar
- (B) M. C. Mehta
- (C) Anil Agarwal
- (D) None of these

67. Example of a benthos is —

- (A) Fish
- (B) Zoo plankton
- (C) Snail
- (D) Phyto Plankton

68. The ecological succession that starts on a bare rock is known as —

- (A) Lithosere
- (B) Psammosere
- (C) Halosere
- (D) None of the above

69. What is green bench?  
(A) Division of high court that deals with cases related to environment  
(B) A division of ministry that deals with environment  
(C) It is the division of Pollution Control Board  
(D) None of the above

70. The darker zone in lakes where light penetration is negligible is called —  
(A) littoral zone  
(B) Limnetic zone  
(C) Profundal zone  
(D) Euphotic zone

71. The “thickness” of stratospheric ozone layer is measured in —  
(A) Sieverts  
(B) Dobson Units  
(C) Melson Units  
(D) Beaufort Scale

72. Where the first, second & third Earth Summits took place in 1992, 2002 & 2012 respectively?  
(A) Johannesburg, Doha, Rio De Janerio  
(B) Rio De Janerio, Johannesburg, Doha  
(C) Rio De Janerio, Kyoto, Johannesburg  
(D) Rio De Janerio, Johannesburg, Rio De Janerio

73. Which of the following causes biomagnification?  
(A) Sulphur di oxide  
(B) Mercury  
(C) DDT  
(D) Both (B) & (C)

74. Region where fresh water meets salt water is called —  
(A) Lake  
(B) River  
(C) Estuary  
(D) Sea

75. Nutrients are recycled in ecosystem by —  
(A) Biogeochemical cycles  
(B) Producers  
(C) Consumers  
(D) Energy flow

76. Carbon monoxide is a pollutant because —  
(A) It reacts with oxygen  
(B) It reacts with haemoglobin  
(C) It inhibits glycolysis  
(D) It makes nervous system inactive

77. Which of the following disease is not caused by mosquitoes —

- (A) Dengue
- (B) Malaria
- (C) Plague
- (D) Filaria

78. Balancing the need to use resources and also conserve them for the future is called —

- (A) Sustainable development.
- (B) Resource conservation
- (C) Resource development
- (D) Human resource development

79. What is UNCED?

- (A) United Nations Conference on Education
- (B) United Nations Conference on Environmental Day
- (C) United Nations Conference on Environment and Development
- (D) None of these

80. Which of the following is the correct arrangement of the layers of atmosphere from the surface of the earth?

- (A) Troposphere, stratosphere, mesosphere, thermosphere, exosphere
- (B) Stratosphere, troposphere, mesosphere, exosphere, thermosphere
- (C) Troposphere, mesosphere, thermosphere, stratosphere, exosphere
- (D) Troposphere, thermosphere, mesosphere, stratosphere, exosphere