

S-1/EVSC/AECC - 1/19

TDP / TDPH 1st Semester Exam., 2019

ENVIRONMENTAL STUDIES

[EVSC]

(AECC Course)

2251

PAPER : AECC - 1

COMPULSORY

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

(Honours and General)

Question Booklet Set : A

Full Marks : 80

Time : 3 Hours

Roll Number :

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OMR Answer

Sheet No. :

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(As printed in the OMR Answer Sheet)

<i>Full Signature of the Candidate with date</i>	<i>Signature of the Invigilator with date</i>

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 alternation/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.

B2/27-1150

Galaxy A23

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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.

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Turn Over

DO NOT WRITE

Answer *all* the questions.

Each question carries 1 mark.

1. An example of lentic ecosystem —

- (A) Pond
- (B) River
- (C) Ocean
- (D) None of these

2. Example of nekton is —

- (A) Fish
- (B) Snail
- (C) Sponge
- (D) Corals

3. The ecological succession that starts in water is known as —

- (A) Lithosere
- (B) Psammosere
- (C) Halosere
- (D) Hydrosere

4. The main component of biogas is —

- (A) Methane
- (B) Carbon-di-oxide
- (C) Ethane
- (D) Nitrogen

Turn Over

5. 'Book of Indian Birds' was written by —

- (A) Ralf Emerson
- (B) Salim Ali
- (C) S. P. Godrej
- (D) None of these

6. The pollution free energy source is —

- (A) Coal
- (B) Nuclear power
- (C) Solar energy
- (D) Petroleum

7. The protocol which decided to completely phase out CFC is —

- (A) Cartagena protocol
- (B) Montreal protocol
- (C) Kyoto protocol
- (D) None of these

8. Ramsar convention refers to the conservation of —

- (A) Desert
- (B) Wetlands
- (C) Agricultural land
- (D) Forest land

9. The presence of which of the following is necessary for photosynthesis —

- (A) Chloroform
- (B) Chlorophyll
- (C) Phosphorus
- (D) Polymer

10. Algal bloom results in —

- (A) Global warming
- (B) Salination
- (C) Eutrophication
- (D) Biomagnification

11. Full form of COD is —

- (A) Chemical oxide demand
- (B) Chemical oxygen demand
- (C) Chemical ozone demand
- (D) None of these

12. The Environmental Protection Act was enacted on —

- (A) 1980
- (B) 1978
- (C) 1986
- (D) 1991

13. Phytoplanktons are the members of —

- (A) Grass land ecosystem
- (B) Desert ecosystem
- (C) Forest ecosystem
- (D) Aquatic ecosystem

14. Which of the following is a biodegradable waste?

- (A) Iron nails
- (B) Plastic bottles
- (C) Animal bones
- (D) None of these

15. Which of the following pyramids can never be inverted?

- (A) Energy
- (B) Biomass
- (C) Productivity
- (D) Number

16. Which of the following gases destroy the ozone layer?

- (A) CFC
- (B) Carbon-di-oxide
- (C) Sulphur-di-oxide
- (D) Ammonia

17. Which of the following represents herbivores in an ecosystem?

- (A) Secondary consumer
- (B) Primary consumer
- (C) Producers
- (D) Decomposers

18. Which of the following layers constitute biosphere?

- (A) Hydrosphere
- (B) Lithosphere
- (C) Atmosphere
- (D) All of these

19. Which of the following organisms occupy the top level of ecological pyramid?

- (A) Primary consumer
- (B) Secondary consumer
- (C) Tertiary consumer
- (D) Producer

20. What happens to the earth's temperature due to the green house effect?

- (A) Increases
- (B) Decreases
- (C) Remain the same
- (D) None of these

21. Which of the following are ways of conserving and preserving earth's natural resources?

- (A) The recycling of wastes
- (B) Using renewable energy sources
- (C) Reducing the use of fossil fuels
- (D) All of these

22. Which of the following disease is caused due to the depletion of ozone layer?

- (A) Throat cancer
- (B) Skin cancer
- (C) Blood cancer
- (D) None of these

23. Which of the following is not due to man's activities —

- (A) Volcanic eruption
- (B) Global warming
- (C) Thinning of ozone layer
- (D) Pollution of the environment

24. Which of the following is an omnivore?

- (A) Tiger
- (B) Deer
- (C) Grasshopper
- (D) Human

25. Which of the following will not cause environmental pollution?

- (A) Noise from vehicles
- (B) Usage of chemical
- (C) Improper disposal of sewage
- (D) Usage of CFC-free refrigerator

26. Which of the following is a food chain?

- (A) Plant → Apple → Insect → Man
- (B) Grass → Grasshopper → Spider → Bee
- (C) Grass → Deer → Lion → Eagle
- (D) None of these

27. The noise pollution is measured in terms of —

- (A) Decibel
- (B) Hertz
- (C) Candela
- (D) Dobson

28. Which type of energy resource is geothermal energy?

- (A) Conventional, renewable
- (B) Non-conventional, non-renewable
- (C) Non-conventional, renewable
- (D) None of these

29. A river with high BOD value indicates —

- (A) High pollution level
- (B) Clear water
- (C) Presence of Shark
- (D) None of these

30. International ozone day is observed on —

- (A) 2nd September
- (B) 16th September
- (C) 21st March
- (D) None of these

31. In an ecosystem, which of the following consumers maximum energy?

- (A) Primary consumer
- (B) Secondary consumer
- (C) Decomposer
- (D) Producers

32. Air pollution can be of —

- (A) Natural origin
- (B) Man made origin
- (C) Both A & B
- (D) Neither A nor B

33. The disease that aggravated by air pollution is —

- (A) Cholera
- (B) Rheumatism
- (C) Bronchitis
- (D) None of these

34. Gir National Park is mainly famous for —

- (A) Indian Lion
- (B) One horned rhino
- (C) Cheetah
- (D) None of these

35. Which of the following green house gases is not natural and created by humans exclusively?

- (A) Water vapour
- (B) Methane
- (C) Carbon-di-oxide
- (D) CFC

36. Forest prevent soil erosion by binding soil particles in their —

- (A) Stem
- (B) Leaves
- (C) Roots
- (D) Buds

37. Major consequences of deforestation are —

- (A) Destruction of natural habitat of wild species
- (B) Disturbances in hydrological cycle
- (C) Soil erosion
- (D) All of these

38. The Cauvery water dispute is between —

- (A) Punjab & Haryana
- (B) Karnataka & Tamilnadu
- (C) Delhi & U. P
- (D) None of these

39. Accumulation of non-biodegradable materials in the food chain is called —

- (A) Biomagnification
- (B) Detoxification
- (C) None of these
- (D) Both A & B

40. The minimum time needed for the formation of one inch top soil is —

- (A) 10 years
- (B) 50 years
- (C) 100 years
- (D) 200 years

41. Zooplankton is a —

- (A) Producer
- (B) Consumer
- (C) Decomposer
- (D) None of these

42. Acid rain is caused by —

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

43. In the stratosphere, oxygen is converted to ozone by —

- (A) α -radiation
- (B) infra-red radiation
- (C) UV radiation
- (D) None of these

44. The external solid part of the earth's surface is called —

- (A) Atmosphere
- (B) Hydrosphere
- (C) Lithosphere
- (D) None of these

45. The Second Earth Summit was organized in —

- (A) Geneva
- (B) Rio-de Janeiro
- (C) Johanesberg
- (D) Los Angeles

46. Solar cell is made up of —

- (A) Cadmium
- (B) Silicon
- (C) Iron
- (D) None of these

47. The gases responsible for global warming are known as —

- (A) Green house gases
- (B) Inert gases
- (C) Halogens
- (D) None of these

48. The environment includes —

- (A) Abiotic factors
- (B) Biotic factors
- (C) Oxygen and Nitrogen
- (D) Abiotic & Biotic factors

49. Which of the following diseases usually spreads through air?

- (A) Plague
- (B) Typhoid
- (C) Cholera
- (D) Tuberculosis

50. Which of the following processes does not increase the amount of carbon-dioxide in air?

- (A) Breathing
- (B) Burning of petrol
- (C) Photosynthesis
- (D) None of these

51. Photochemical smog causes problems in —

- (A) Vegetation
- (B) Animals
- (C) Building materials
- (D) All of these

52. Chronic exposure to arsenic causes —

- (A) Fluorosis
- (B) Black foot disease
- (C) Itai itai
- (D) Blue baby syndrome

53. Which of the following is a secondary air pollutant —

- (A) Carbon-di-oxide
- (B) Carbon monoxide
- (C) Sulphuric acid
- (D) Sulphur-di-oxide

54. Germplasm bank is a kind of —

- (A) Ex-situ conservation
- (B) In-situ conservation
- (C) In-vivo conservation
- (D) None of these

55. The term Ecology was coined by —

- (A) Ernst Haeckel
- (B) A. G. Tansley
- (C) Charles Darwin
- (D) E. P. Odum

56. In the biosphere the energy is received from —

- (A) The sun
- (B) Interior of the earth
- (C) Both A & B
- (D) Neither A nor B

57. Ecosystem is the smallest unit of —

- (A) Ionosphere
- (B) Lithosphere
- (C) Biosphere
- (D) Mesosphere

58. The example of a terrestrial ecosystem is —

- (A) Forest
- (B) Rivers
- (C) Oceans
- (D) All of the above

59. Actively moving organisms in aquatic ecosystem is called —

- (A) Benthos
- (B) Nekton
- (C) Phytoplankton
- (D) None of these

60. The ecological pyramid which can be inverted in tree-ecosystem is —

- (A) Pyramid of number
- (B) Pyramid of energy
- (C) Pyramid of biomass
- (D) Both 'B' & 'C'

61. The 10% law of energy transfer in food chain was given by —

- (A) Lindeman
- (B) A. G. Tansley
- (C) Weissmann
- (D) E. O. Wilson

62. Organisms which break down detritus in matter particles are known as —

- (A) Herbivores
- (B) Carnivores
- (C) Detritivores
- (D) None of these

63. The place where the worst nuclear disaster took place is —

- (A) Washington
- (B) Chernobyl
- (C) Bhopal
- (D) None of these

64. Suspended particulate matter (SPM) less than 10 micron causes —

- (A) Asthma
- (B) Bronchitis
- (C) Lungs cancer
- (D) All of the above

65. Apikko movement occurred in —

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

66. Sepahijala Wildlife Sanctuary of Tripura is an example of —

- (A) Ex-situ conservation
- (B) In-situ conservation
- (C) Both ex-situ & in-situ conservation
- (D) None of these

67. Which of the following is the most poisonous water pollutant?

- (A) Zinc
- (B) Arsenic
- (C) Phosphate
- (D) Carbon-di-oxide

68. CITES standy for —

- (A) Convention on International Trade in Endangered species of wild fauna & flora
- (B) Conservation of International Trade in Endangered species of wild fauna & flora
- (C) Conservation of Indian Trade in Endangered species of wild fauna & flora
- (D) None of these

69. The symbol of ecomark in India is —

- (A) Earthen pitcher
- (B) Earthen lamp
- (C) Earthen dish
- (D) None of these

70. The supreme court Justice of India who ordered to make Environmental studies as a compulsory subject in school & college level is —

- (A) Kuldeep Singh
- (B) M. C. Mehta
- (C) Sunderlal Bahuguna
- (D) M. S. Swaminathan

71. Who is known as the 'water man' of India?

- (A) Rajendra Singh
- (B) M. C. Mehta
- (C) S. P. Godrej
- (D) M. S. Swaminathan

72. Which of the following NGOs is associated with 'Chipko Movement'?

- (A) Kalpavriksh
- (B) Srishti
- (C) Dasholi Gram Swarajya Mandal
- (D) Green Peace

73. Chemicals or agents that cause cancer are called —

- (A) Carcinogenic
- (B) Mutagenic
- (C) Neurotoxins
- (D) None of these

74. Which of the following steps is not involved in hydrological cycle?

- (A) Evaporation
- (B) Transpiration
- (C) Condensation
- (D) Respiration

75. What is troposphere?

- (A) Middle layer of atmosphere
- (B) Portion of water
- (C) Lowest layer of atmosphere where we survive
- (D) None of these

76. The largest amount of fresh water is found in —

- (A) Underground water body
- (B) Polar ice and glaciers
- (C) Lakes and streams
- (D) Rivers

77. How many mega diversity countries are there in the world?

- (A) 8
- (B) 10
- (C) 17
- (D) None of these

78. Man and Biosphere Programme is affiliated with —

- (A) IUCN
- (B) UNESCO
- (C) WWF
- (D) UNCED

79. Core zone, Buffer zone and Transition zone are the parts of —

- (A) National park
- (B) Sanctuaries
- (C) Biosphere Reserve
- (D) None of these

80. Biodiversity hot spot is a region with —

- (A) Low level of endemic species
- (B) Moderate level of endemic species
- (C) High level of endemic species
- (D) None of these