

This booklet contains 15 printed pages. Question Booklet No. : **318529**  
**Question Booklet for TDP/TDPH 3rd Semester Exam., 2019**

**FOUNDATION—III**  
**( ENVIRONMENTAL STUDIES )**

Full Marks : 80 ]

[ Time : 3 Hours

Question Booklet SET No. : A

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1. Use black/blue dot pen only.
2. Fill in the particulars given below in this page.
3. Fill in the particulars (on the Side 1) of the OMR Answer Sheet as per Instructions contained in the OMR Answer Sheet.
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5. There are 80 (eighty) questions in this Question Booklet, each carrying 1 (one) mark.
6. Each question or incomplete statement is followed by 4 (four) suggestive answers—[A], [B], [C] and [D] of which only one is correct. Mark the correct answer by darkening the appropriate circle.
7. Marking of more than one answer against any question will be treated as incorrect response and no mark shall be awarded.
8. Any change in answer made or erased by using solid or liquid eraser will damage the OMR Answer Sheet resulting in rejection of the whole Answer Sheet by the computer. Therefore, do not change or erase once the answer is marked.
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/128-A

## Unit—1

- The instrument that converts solar energy into electrical energy by solar cells is
  - photovoltaic
  - AC generator
  - DC generator
  - All of the above
- More than 70% of world's saline water is contained in
  - ponds
  - glaciers and polar ice caps
  - Greenland
  - oceans
- Which of the following lists includes all renewable resources?
  - Nuclear, natural gas, oil, coal
  - Geothermal, wind, nuclear, solar
  - Solar, nuclear, wind, natural gas
  - Hydroelectric, solar, wind, geothermal
- Which of the following acts as the main source of groundwater?
  - Rain
  - River
  - Ocean
  - Canal
- Extraction of mineral and metal from the earth is called
  - mining
  - agriculture
  - transportation
  - sustainable development
- Terrestrial biodiversity decreases from
  - tropic to pole
  - poles to tropics
  - Remains the same
  - None of the above
- Biodiversity hot spot is a region with
  - low level of endemic species
  - high level of endemic species
  - Both [A] and [B]
  - None of the above
- Increase in  $\text{CO}_2$  in air affects
  - digestive system
  - excretory system
  - respiratory system
  - nervous system
- Most variable component of troposphere is
  - oxygen
  - nitrogen
  - water vapour
  - hydrogen
- Both power and manure are provided by
  - thermal plants
  - nuclear plants
  - biogas plants
  - hydroelectric plants
- Father of Indian Green Revolution is
  - S. M. Swaminathan
  - C. Rangarajan
  - M. S. Swaminathan
  - Madhav Gadgil
- Increasing fertility of soil and protecting it from erosion is called
  - desertification
  - deposition
  - soil conservation
  - soil pollution

15. Which of the following is responsible for desertification?

- [A] Overgrazing
- [B] Mining
- [C] Deforestation
- [D] All of the above

16. The adverse effects of making dam include

- [A] soil infertility
- [B] salinity of soil
- [C] waterlogging
- [D] All of the above

17. Which of the following is not a method for water conservation?

- [A] Rainwater harvesting
- [B] Groundwater harvesting
- [C] Avoiding water wastage
- [D] Improving irrigation efficiency

18. The maximum use of freshwater is in

- [A] agriculture
- [B] domestic use
- [C] industry
- [D] fishery

19. Danger for the beauty of Taj Mahal is

- [A] liquid effluents
- [B] Yamuna River
- [C] scaring heat and rain
- [D] Mathura Oil Refinery

20. Who first coined the term 'ecosystem'?

- [A] Ernst Haeckel
- [B] E. P. Odum
- [C] A. G. Tansley
- [D] M. C. Dash

## Unit-II

21. In ecological succession, climax communities mean

- [A] communities which are found at the middle stages of ecological succession
- [B] communities which start the ecological succession
- [C] communities which are found at the last stage of ecological succession
- [D] None of the above

22. Endemic species are

- [A] rare species
- [B] critically endangered species
- [C] species localized in a specific area
- [D] insufficiently known species

23. Cause for the extinction of wildlife is

- [A] desertification and destruction of habitat
- [B] pollution of air and water
- [C] hunting
- [D] All of the above

24. The sequence of energy flow through food chain is

- [A] unidirectional
- [B] bidirectional
- [C] polydirectional
- [D] Cannot be measured

25. Extinct species means

- [A] species which have not been found anywhere in the world for the last 50 years
- [B] species which have high likelihood of becoming endangered in the near future
- [C] species which need conservation but very little is known about them
- [D] All of the above

26. Grazing food chain starts from

- [A] producer
- [B] decomposer
- [C] reducer
- [D] None of the above

27. In tree ecosystem, pyramid of number is

- [A] upright
- [B] inverted
- [C] Cannot be measured
- [D] None of the above

- 28.** CITES is an international treaty on
- [A] air pollution
  - [B] water pollution
  - [C] conservation of endangered plants and animals
  - [D] None of the above
- 29.** The example of an artificial ecosystem is
- [A] aquarium
  - [B] ecosystem of a pond
  - [C] ecosystem of grassland
  - [D] None of the above
- 30.** Difference present in Biosphere Reserve, National Park and Sanctuary is
- [A] difference in size
  - [B] regional difference
  - [C] constitutional difference
  - [D] All of the above
- 31.** What is a mega diversity country?
- [A] Countries where the number and area of biodiversity hot spots are comparatively high
  - [B] Countries which have more number of exotic species
  - [C] Countries which have more number of National Parks
  - [D] None of the above
- 32.** Conservation of energy leads to
- [A] decrease in pollution rate
  - [B] decrease in cost rate
  - [C] conservation of resource
  - [D] All of the above
- 33.** Fungi belong to a category of
- [A] consumer
  - [B] decomposer
  - [C] producer
  - [D] abiotic components
- 34.** In ecological succession, the development of a bare area without any life-form is called
- [A] Ecesis
  - [B] Nudation
  - [C] Reaction
  - [D] Sere
- 35.** Man and biosphere programme is affiliated with
- [A] UNESCO
  - [B] IUCN
  - [C] WWF
  - [D] ICIMOD
- 36.** Which among the following Acts aims for the preservation and conservation of forest as a natural heritage?
- [A] Environmental Protection Act, 1986
  - [B] Forest Conservation Act, 1980
  - [C] Wildlife Protection Act, 1972
  - [D] Indian Forest Act, 1927
- 37.** Which among the following is an invasive species in India?
- [A] *Parthenium* sp.
  - [B] *Nepenthes* sp.
  - [C] *Cycas indica*
  - [D] None of the above
- 38.** Core, buffer, transition form the prime zone of
- [A] National Parks
  - [B] Sanctuaries
  - [C] Biosphere Reserves
  - [D] All of the above
- 39.** Soil erosion can be prevented by
- [A] grazing
  - [B] landfilling
  - [C] afforestation
  - [D] agriculture
- 40.** BGC means
- [A] Big Gas Circuits
  - [B] Biological Green Corps
  - [C] Biogeochemical Cycle
  - [D] None of the above

### Unit—III

41. The highly degraded organic matter rich in phosphorus, nitrogen and potassium in manure resulting from the activity of earthworm is called
- [A] compost
  - [B] humus
  - [C] vermicompost
  - [D] None of the above
42. The Richter scale expresses earthquake's
- [A] magnitude
  - [B] location
  - [C] duration
  - [D] depth
43. Increase in carbon monoxide in air affects
- [A] digestive system
  - [B] nervous system
  - [C] respiratory system
  - [D] excretory system
44. Acid rain is formed due to contribution from which of the following pairs of gases?
- [A] Methane and ozone
  - [B] Oxygen and carbon dioxide
  - [C] Methane and sulphur dioxide
  - [D] Nitrogen dioxide and sulphur dioxide
45. Which of the following is biodegradable?
- [A] Leather
  - [B] Glass piece
  - [C] Silver foil
  - [D] Plastic mug
46. The name of the process in which a harmful chemical enters the food chain and gets concentrated at each level of the food chain is
- [A] concentration
  - [B] bio-magnification
  - [C] expansion
  - [D] pollution
47. The point of the earth's surface directly above the point where an earthquake occurs is called
- [A] focus
  - [B] epicenter
  - [C] fracture
  - [D] fault
48. Life supporting gases such as  $O_2$ ,  $CO_2$  and  $N_2$  are chiefly encountered in the
- [A] troposphere
  - [B] stratosphere
  - [C] exosphere
  - [D] mesosphere
49. COD determines the quality of
- [A] soil
  - [B] water
  - [C] air
  - [D] None of the above
50. White smoke emitted from brick kiln industry indicates presence of
- [A] sulphurous oxide
  - [B] carbon dioxide
  - [C] nitrogen dioxide
  - [D] nitrous oxide
51. Air pollution can be prevented by
- [A] planting green trees
  - [B] filtering the industrial smoke
  - [C] establishing hydroelectric power in place of thermal power station
  - [D] All of the above
52. Chernobyl accident occurred in
- [A] India
  - [B] England
  - [C] USA
  - [D] Russia
53. What is the pH of acid rain?
- [A] 5.0-5.5
  - [B] Less than 5
  - [C] More than 6
  - [D] None of the above
54. Photochemical smog is caused by
- [A] water pollution
  - [B] nuclear pollution
  - [C] air pollution
  - [D] All of the above

55. Which of the following are the sources of soil pollution?

- [A] Solid waste and garbage
- [B] Pesticides and chemical fertilizers
- [C] Sewage and effluents
- [D] All of the above

56. Which of the following is the main source of lead pollution?

- [A] Leaded gasoline
- [B] Sewage
- [C] Tobacco
- [D] Insecticides

57. Sound becomes hazardous noise pollution at a level over

- [A] 60 dB
- [B] 80 dB
- [C] 100 dB
- [D] 120 dB

58. Occurrence of earthquake often leads to

- [A] Tsunami
- [B] Landslide
- [C] Volcanic activity
- [D] All of the above

59. What is Green Bench?

- [A] A division of High Court that deals with cases related to environment
- [B] A division of ministry that deals with environmental issues
- [C] A division of Pollution Control Board
- [D] None of the above

60. The gas released during Bhopal Gas Tragedy was

- [A] methyl isocyanate
- [B] sodium isocyanate
- [C] potassium isocyanate
- [D] methyl isothiocyanate

#### Unit—IV

61. The amount of offspring a female can give birth in her lifetime is called

- [A] biotic potential
- [B] census
- [C] crude birthrate
- [D] sampling

62. Which State in India has the least population density?

- [A] Arunachal Pradesh
- [B] Kerala
- [C] Tripura
- [D] Assam

63. Environmental ethics relates to

- [A] rights of all human being
- [B] rights of other living creatures
- [C] relationship of human being with environment
- [D] All of the above

64. Where did the first, second and third Earth Summits take place in 1992, 2002 and 2012 respectively?

- [A] Johannesburg, Doha, Rio de Janeiro
- [B] Rio de Janeiro, Johannesburg, Doha
- [C] Rio de Janeiro, Kyoto, Johannesburg
- [D] Rio de Janeiro, Johannesburg, Rio de Janeiro

65. The Chipko Movement is associated with

- [A] human rights
- [B] animal rights
- [C] women welfare
- [D] environmental conservation

66. The chief objective of family welfare programme in India is

- [A] maternal health
- [B] disease free population
- [C] population control
- [D] All of the above

67. The main purpose of studying environmental education is to

- [A] maintain essential ecosystem
- [B] preserve genetic diversity
- [C] maintain life-support system
- [D] All of the above

68. The Conference on the Human Environment was held from 5th June to 16th June, 1972 in

- [A] Stockholm, Sweden
- [B] Tbilisi, Soviet Union
- [C] Rio de Janeiro, Brazil
- [D] Kyoto, Japan

69. Rio Declaration is also known as

- [A] one common future
- [B] caring for the earth
- [C] Agenda 21
- [D] World conservation strategy

70. An example of pollen borne disease is

- [A] Asthma
- [B] Diphtheria
- [C] Tetanus
- [D] Measles

71. Sustainable development is concerned with which of the following components of development?

- [A] Environment
- [B] Social, cultural and economic development
- [C] Humanity and management
- [D] All of the above

72. The disease caused by cadmium pollution is

- [A] Minamata disease
- [B] Itai-itai disease
- [C] Arsenicosis
- [D] Fluorosis

73. Methemoglobinemia is caused due to

- [A] iron deficiency
- [B] potassium deficiency
- [C] calcium deficiency
- [D] sodium deficiency

74. Vanamahatava is celebrated every year on the

- [A] first week of April
- [B] first week of July
- [C] first week of March
- [D] first week of December

75. In the Indian Constitution, which are the two Articles for the protection of environment?

- [A] Article 41A and Article 50G
- [B] Article 48A and Article 51A(g)
- [C] Article 24A and Article 31G
- [D] None of the above

76. SPM means

- [A] Secondary Performance Measure.
- [B] Suspended Particulate Matter
- [C] Systematic Pressure Measure
- [D] Systolic Pressure Measure

77. Population study is a part of

- [A] demography
- [B] diversity
- [C] sampling
- [D] human geography

78. The Ministry of Environment was set up in

- [A] 1970
- [B] 1975
- [C] 1990
- [D] 1985

79. Social impact assessment comprises of

- [A] environmental impact assessment
- [B] economic impact assessment
- [C] hazard assessment
- [D] All of the above

80. Red Ribbon Club is related to

- [A] NACO
- [B] NCTN
- [C] WWF
- [D] TBSP