

## U.G/P.G. ENTRANCE EXAMINATION, APRIL 2021

## ENVIRONMENTAL SCIENCE

Time : Two Hours

Maximum : 100 Marks

*Answer all questions.**Each question carries 1 mark.**There will not be negative marking.*

1. Who is known as the Patron Saint of Ecology ?
  - A) St. Francis of Assisi.
  - B) St. Vincent de Paul.
  - C) St. Francis Sales.
  - D) St. Marcellinus.
2. Appiko movement led by :
  - A) Sunderlal Bahuguna.
  - B) Panduranga Hegde.
  - C) Chandi Prasad Bhatt.
  - D) MedhaPatkar.
3. International day for Biodiversity is on :
  - A) March 22.
  - B) April 21.
  - C) May 22.
  - D) June 5.
4. Lianas are ————.
  - A) An invasive insect.
  - B) An epidemic of West Africa.
  - C) Genetically modified potato.
  - D) Woody vines.
5. *Nasikabatrachus sahyadrensis* is the scientific name of :
  - A) Frog mouth bird.
  - B) A new plant species from Western Ghats.
  - C) Purple frog.
  - D) A new butterfly species from Western Ghats.
6. How many Ramsar sites in India ?
  - A) 19.
  - B) 42.
  - C) 24.
  - D) 39.
7. Pygmi elephants are found in :
  - A) Thailand.
  - B) Borneo.
  - C) Indonesia.
  - D) Sri Lanka.

**Turn over**







34. Solar constant is :
- A) The rate at which energy reaches the earth's surface from the sun.
  - B) The scattering of light in the atmosphere with respect to cloud intensity.
  - C) The rate of reflectance of solar light.
  - D) The rate of nuclear fusion reaction in the sun.
35. A solar cell is a \_\_\_\_\_.
- A) P type semi conductor.
  - B) N type semi conductor.
  - C) Intrinsic semiconductor.
  - D) P-N Junction.
36. Flame photometry can be used for the determination of :
- A) Potassium.
  - B) Pesticide residues.
  - C) Chlorine.
  - D) Mercury.
37. Which is not a persistent pollutant ?
- A) DDT.
  - B) Endrin.
  - C) Nitrate.
  - D) PCBs.
38. Expansion of COD is :
- A) Chemical oxygen demand.
  - B) Corrosion oxidation damage.
  - C) Chemical oxidation damage.
  - D) Chlorophyll Oxygen demand.
39. The main constituent of Marsh gas is :
- A) Oxygen.
  - B) Sulphur dioxide.
  - C) Methane.
  - D) Carbon monoxide.
40. The lowest concentration of an antimicrobial agent that prevents visible growth of a microorganism is known as :
- A) MIC.
  - B) LCM.
  - C) LCA.
  - D) LD<sub>50</sub>.
41. Remote sensing techniques make use of the properties :
- A) Sound waves.
  - B) Electric waves.
  - C) Electromagnetic waves.
  - D) None of the above.
42. GIS uses the information from — sources :
- A) Global information System.
  - B) Spatial information System.
  - C) Non Spatial information System.
  - D) Position Information System.

Turn over



**Part B**

*Answer any ten questions.*

*Each question carries 5 marks.*

51. Discuss about the ecological adaptations of plants with suitable examples.
52. Explain about the formation of photochemical smog and its impacts.
53. 'Plastic contamination is like a boomerang'. Explain how ?
54. Explain about biomass energy with its advantages and disadvantages.
55. Briefly explain about the X ray fluorescence with its environmental applications.
56. Discuss about climate change and its environmental impacts.
57. Compare the various methods for food preservation.
58. Critically analyse the use of remote sensing and GIS in disaster management.
59. Briefly explain about Radioactive pollution and its management.
60. Explain the role of microbes in biogeochemical cycles.
61. Briefly explain about various secondary water treatment methods.
62. Discuss the relevance of EIA in environment management.
63. Explain about various environmental laws in India.

(10 × 5 = 50 marks)