

C 41693

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Name.....

Reg. No.....

PG/INTEGRATED PG ENTRANCE EXAMINATION, APRIL 2023

ENVIRONMENTAL SCIENCE

Time : Two Hours

Maximum : 400 Marks

Each question carries 4 marks.

1 mark will be deducted for each wrong answer.

1. The word 'biodiversity' was coined by :

(a) W.G Rosen.

(b) E.P OdumJanaki Ammal.

(c) E.O Wilson .

(d) E. Haeckel.

2. Space Application Centre is located at :

(a) Nagpur.

(b) Bangalore.

(c) Thiruvananthapuram.

(d) Ahmedabad.

3. pH value of normal rain water is :

(a) 4.5.

(b) 5.5.

(c) 7.

(d) 7.5.

4. World Water Day is observe on :

(a) February 22.

(b) April 22.

(c) December 22.

(d) March 22.

5. Asbestosis is a type of ————— disease caused by exposure to asbestos.

(a) Skin.

(b) Eye.

(c) Lungs.

(d) Heart.

6. Which one of the following is a non green house gas ?

(a) Methane.

(b) Nitrous Oxide.

(c) Sulphur Hexafluoride.

(d) Carbon Monoxide.

7. The final stable community in ecological succession is :

(a) Dominant.

(b) Sere.

(c) Pioneer.

(d) Climax.

Turn over

8. Bishnoi tribes are seen in :
- (a) Rajasthan. (b) Madhyapradesh.
(c) Gujarat. (d) Himachal Pradesh.
9. Kyoto protocol is an international treaty :
- (a) To reduce green house gas emissions.
(b) To reduce plastic pollution.
(c) To promote afforestation.
(d) To promote solar energy.
10. *Lokahsamastahsukhinobhavantu* "May all beings everywhere be free and happy." is taken from :
- (a) Vedas. (b) Ramayanam.
(c) Mahabharatham. (d) Upanishad.
11. Which state has the highest forest cover in India ?
- (a) Madhyapradesh. (b) Arunachalpradesh.
(c) Orissa. (d) Maharashtra.
12. The lower part of thermosphere is called :
- (a) Troposphere. (b) Ionosphere.
(c) Stratosphere. (d) All the above.
13. The instrument used to measure plant growth :
- (a) Hygrometer. (b) Photometer.
(c) Auxanometer. (d) Multimeter.
14. Veld type grasslands are located at ?
- (a) South America. (b) South Africa.
(c) Australia. (d) Britain.
15. _____ is any group of species that exploit the same resources, or that exploit different resources in related ways.
- (a) Guild. (b) Niche.
(c) Races. (d) Population.

16. Which of these is not a lake of Kerala ?
- (a) Sasthamkotta. (b) Vembanadu.
(c) Ashtamudi. (d) Pulicat.
17. Limnology is the study of :
- (a) Oceans. (b) Minerals.
(c) Inland Waters. (d) Micro Organisms in Soils.
18. Which conference held at Glasgow :
- (a) COP 25. (b) COP 26.
(c) COP 24. (d) COP 23.
19. An example of symbiotic nitrogen fixing cyanobacteria :
- (a) Nostoc. (b) Rhizobium.
(c) Azotobacter. (d) Nitrobacter.
20. Plants which grow in area where intensity of light is more are called :
- (a) Heliophytes. (b) Sciophytes.
(c) Oxylophytes. (d) Epiphyte.
21. What is deep ecology ?
- (a) Protecting nature for its own sake.
(b) Ecology of deep sea.
(c) Ecology of forest
(d) None of these.
22. Prions is the causative agent of _____ disease.
- (a) Wile's Disease. (b) Mad cow disease.
(c) Swine Flu Disease. (d) Fowl pox.
23. The convention for the conservation of wetlands held at Iran is known as :
- (a) Vienna. (b) Stockholm.
(c) Ramsar. (d) Biodiversity.

24. The Appiko movement, which began as a crusade to protect the trees originated in :
(a) Uttarakhand. (b) Karnataka.
(c) Maharashtra. (d) Gujarat.
25. With which of the following, the Agenda 21' of Rio Summit, 1992 is related to ?
(a) Sustainable development.
(b) Combating the consequences of population explosion.
(c) Mitigation norms of Green House Gases (GHGs) emission.
(d) Technology transfer mechanism to developing countries for 'clean-energy' production.
26. Sacred groves are examples of :
(a) In-situ conservation. (b) In-vivo conservation.
(c) Ex-situ conservation. (d) Ex-vivo conservation.
27. The first green bench was constituted in India in high court of :
(a) Calcutta. (b) Chennai.
(c) Mumbai. (d) Ernakulam.
28. The first National Park of India :
(a) Gir. (b) Kaziranga.
(c) Corbett. (d) Ranthampore.
29. _____ was an American businessman who served as Chairman and CEO of the Union Carbide Corporation at the time of the Bhopal disaster in 1984.
(a) Win Chadha. (b) Ottavio Quattrocchi.
(c) Warren Martin Anderson. (d) Matin Ardbo.
30. Name the disease caused by Cadmium poisoning :
(a) Ouch-ouch disease. (b) Plumbism.
(c) Itai-itai disease. (d) Minamata disease.
31. Which among the following is the World's largest Wetland System ?
(a) Camargue (France). (b) Okavango (Botswana).
(c) Everglades (USA). (d) Pantanal(South America).

32. The 'thickness' of Stratospheric Ozone layer is measured in/on :
(a) Sieverts. (b) Dobson unit.
(c) Melson units. (d) Beaufort Scale.
33. An aquatic plant introduced from America to check pollution turned out to be a troublesome weed in Indian water bodies. The name of this 'invasive alien species' is :
(a) Opuntia. (b) Aegilops.
(c) Eichhornia. (d) Pistia.
34. The highest per capita emitter of Carbon dioxide in the world is :
(a) USA. (b) China.
(c) Qatar. (d) Saudi Arabia.
35. Keibul Lamjoo is :
(a) Wildlife Sanctuary. (b) Floating National Park.
(c) Biosphere Reserve. (d) Community Reserve.
36. The head quarters of IRRI :
(a) Newyork, U.S.A. (b) Paris, France.
(c) Vienna, Austria. (d) Los Banos, Philippines.
37. The use of micro-organism metabolism to remove pollutants such as oil spills in the water bodies is known as :
(a) Biomagnification. (b) Bioremediation.
(c) Biomethanation. (d) Bioreduction.
38. In which of the following forests of India, world's first tiger census was carried out in 1932 ?
(a) Kaziranga Forests. (b) Sariska Forests.
(c) Rantham. (d) Palamu Forests.
39. The Washington Convention whose formal name is abbreviated as CITES is related to which among the following ?
(a) Pesticides. (b) Ozone Depletion.
(c) Endangered Species. (d) Human.

40. Earth Hour is organized by _____ ?
- (a) UNESCO. (b) Earth Hour Foundation.
(c) World Wildlife Fund. (d) UNEP.
41. Which of the following is the most abundant Green House Gas (GHG) in the earth's atmosphere ?
- (a) Nitrogen Dioxide. (b) Carbon Dioxide.
(c) Water Vapour. (d) Sulphur dioxide.
42. Which among the following protocols is also related to the Access and Benefit Sharing (ABS) mechanism ?
- (a) Kyoto protocol. (b) Nagoya Protocol.
(c) Geneva Protocol. (d) Cartagena Protocol.
43. Acid rain is capable of damaging the buildings and historic monuments which are made up of rocks such as limestone and marble. Which among the following is the end product of such reaction ?
- (a) Quick Lime. (b) Calcium Carbonate.
(c) Calcium Hydroxide. (d) Gypsum.
44. Which among the following chronic lung disease commonly known as 'black lung' disease, leads to reduced life expectancy in coal-miners ?
- (a) Pneumoconiosis. (b) Progressive Massive Fibrosis.
(c) Mesothelioma. (d) Collier's Asthma.
45. Which one of the following is a useful biological indicator of Sulphur-dioxide pollution ?
- (a) Bryophytes. (b) Lichens.
(c) Pseudomonas. (d) Algal blooms.
46. Which among the following will emit maximum mass of carbon dioxide, when the same quantity is burnt of all of them ?
- (a) Gasoline. (b) Natural Gas.
(c) Kerosene. (d) Propane.
47. How many numbers of the Biogeographic zones are present in India ?
- (a) 4. (b) 8.
(c) 10. (d) 15.

48. What is the number of Green House Gases, as recognized by the Kyoto Protocol ?
- (a) 3. (b) 4.
(c) 5. (d) 6.
49. Which among the following is the first widely used herbicide ?
- (a) 2, 4-D. (b) TCDD.
(c) Limonene. (d) Vinegar.
50. In context with the Environment, the price charged to deliver municipal solid waste to a landfill, waste-to-energy facility, or recycling facility is known as _____?
- (a) Recycling Fee. (b) Dumping Duty.
(c) Tipping Fee. (d) Material Fee.
51. In which of the following date "World Water Day" is observed ?
- (a) March 20th. (b) March 21st.
(c) March 22nd. (d) March 23rd.
52. In which year Project Tiger was launched in India ?
- (a) 1973. (b) 1970.
(c) 1992. (d) 1995.
53. In which of the following state in India established the country's first carbon dioxide measurement exchange tower ?
- (a) Maharastra. (b) Gujarath.
(c) Kerala. (d) Uttarakhand.
54. National Space Center for "Megha-Tropiques Mission" to study the water cycle in the tropical atmosphere in the context of climate change is located in :
- (a) Italy. (b) France.
(c) Germany. (d) Poland.
55. The tendency of biological systems to resist change and to remain in a state of equilibrium is called :
- (a) Homeostatis. (b) Feedback mechanism.
(c) Ecological efficiency. (d) Carrying capacity.

Turn over

56. 'Silent Spring' is written by :

- (a) E.Odum.
- (b) Vandhana Siva.
- (c) Rachel Carson.
- (d) Wangari Maathai.

57. Public hearing is conducted :

- (a) Prior to site selection.
- (b) Prior to approval of Terms of Reference.
- (c) After preparation of EIA.
- (d) After environmental clearance.

58. In biological systems sulphur is largely bound in :

- (a) Lipids.
- (b) Proteins.
- (c) Nucleic acids.
- (d) Proteins and nucleic acids.

59. Nalgonda technique of fluoride removal involves the use of :

- (a) Aluminium salts.
- (b) Sodium salts.
- (c) Potassium salts.
- (d) Magnesium salts.

60. Laterite soil contains more of :

- (a) Iron and Aluminium.
- (b) Magnesium and Boron.
- (c) Manganese and Silicate.
- (d) Potassium and Lead.

61. Which among the following is India's largest wildlife sanctuary ?

- (a) Dibang Valley.
- (b) Kedarnath Wild Life Sanctuary.
- (c) Kumbhalgarh.
- (d) Indian Wild Ass Sanctuary.

62. Which among the following is India's first state to release a Climate Change Action Plan ?

- (a) Delhi.
- (b) Himachal Pradesh.
- (c) Haryana.
- (d) Kerala.

63. In which of the following the ecological pyramid of numbers is broad in center ?

- (a) Grasslands Ecosystem.
- (b) Pond Ecosystem.
- (c) Parasitic Food chain.
- (d) Forest Ecosystem.

64. Anuradha Sawhney is well known for her work in which of the following fields ?

- (a) Micro Finance.
- (b) Rainwater harvesting.
- (c) Environment Protection.
- (d) Animal rights.

65. In an ecotone, the species which become abundant are called :
(a) Keystone species. (b) Edge species.
(c) Endemic species. (d) Foster species.
66. A population, from where samples are drawn, is called :
(a) Total population. (b) Target population.
(c) Accessible population. (d) Universal population.
67. Which year was declared as International Year of Biodiversity ?
(a) 2002. (b) 2010.
(c) 2020. (d) 1972.
68. What is Eco - mark ?
(a) Label given to recycled products.
(b) Label given to an environment friendly products.
(c) Land mark indicating the boundaries of bio-parks.
(d) Label given to non-recyclable products.
69. Points Calimere Bird sanctuary is located in which of the following states ?
(a) Kerala. (b) Karnataka.
(c) Tamil Nadu. (d) West Bengal.
70. Which freshwater species is added in the Critically Endangered list by International Union for Conservation of Nature (IUCN) recently ?
(a) White tiger shark. (b) Tor remadevii.
(c) Northern pike. (d) Wels catfish.
71. The Ozone Day is observed every year on September 16 as on this day in 1987 the _____ was signed for launching efforts to arrest the depletion of the fragile ozone layer in the stratosphere that prevents the harmful ultra-violet rays of the sun from reaching the earth.
(a) Montreal Protocol. (b) Geneva Protocol.
(c) Kyoto Protocol. (d) Nagoya Protocol.
72. Which among the following body shows anti-green house effect ?
(a) Mars. (b) Venus.
(c) Jupiter. (d) Titan.
73. What is the name of Japan's new imperial era that was began on May 1, 2019 ?
(a) Showa. (b) Taisho.
(c) Reiwa. (d) Heisei.

74. What is Carbon Levy ?
- (a) It's a tax levied on jet and shipping fuel to finance climate change mitigation.
 - (b) It's a tax levied on carbon fuel.
 - (c) It's a tax levied on production of fossil fuel and coal.
 - (d) It's a tax levied on production of coal only.
75. Which country will establish the world's first floating nuclear power plant ?
- (a) Japan.
 - (b) France.
 - (c) U.S.A.
 - (d) Russia.
76. In the E-waste generated by the Mobile Phones, which among the following metal is most abundant ?
- (a) Copper.
 - (b) Silver.
 - (c) Palladium.
 - (d) Gold.
77. Who was named 2019 FWA footballer of the year ?
- (a) Virgil Van Dijk.
 - (b) Lionel Messi.
 - (c) Raheem Sterling.
 - (d) Cristiano Ronaldo.
78. In which country scientists have unearthed 220 million-year-old dinosaurs fossils ?
- (a) Maldives.
 - (b) Canada.
 - (c) Argentina.
 - (d) Russia.
79. The United Nations Security Council (UNSC) unanimously passed the resolution to combat _____.
- (a) Terror funding.
 - (b) Desertification.
 - (c) Biological weapons.
 - (d) Climate Change.
80. What is the name of India's first electronic surveillance satellite ?
- (a) WingSat.
 - (b) Sunsat.
 - (c) Emigran.
 - (d) Emisat.
81. Dodo or *Raphus cucullatus*, a flightless bird which got extinct in the 17th century was endemic to which among the following countries ?
- (a) Sri Lanka.
 - (b) Maldives.
 - (c) Mauritius.
 - (d) India.
82. Which of the following was most probably the first metal to be used in India ?
- (a) Iron.
 - (b) Copper.
 - (c) Gold.
 - (d) Silver.

83. In Stone Age, the Microliths were most commonly found in which of the following ages ?
(a) Paleolithic. (b) Mesolithic.
(c) Neolithic. (d) Chalcolithic.
84. The Indian Council of Medical Research recently launched the 'MERA India' to eliminate _____ by 2030.
(a) Malaria. (b) Dengue.
(c) Tuberculosis. (d) Typhoid.
85. Which of the following National Park is called "Topslip" ?
(a) Mukurthi National Park.
(b) Mudumalai National Park.
(c) Indira Gandhi Wildlife Sanctuary and National Park.
(d) Palani Hills National Park.
86. Which gas is most popular as laughing gas ?
(a) Ammonia. (b) Nitrogen dioxide.
(c) Nitric oxide. (d) Nitrous oxide.
87. Cotton fibers are made of :
(a) Suberin. (b) Lignin.
(c) Cellulose. (d) Pectin.
88. The 'Concept of Inertia' was developed by ? was awarded Nobel Prize for his path-breaking research and formulation of the:
(a) Albert Einstein. (b) Galileo.
(c) Newton. (d) Archimedes.
89. Which animal never drinks water in its entire life ?
(a) Kangaroo. (b) Kangaroo rat.
(c) Rat. (d) Hippopotamus.
90. "Fish meal" is widely used as which among the following ?
(a) Cost effective Food. (b) Poultry Feed Additive.
(c) Organic Fertilizer. (d) Bird food.
91. What is the name of the world's first Greenhouse Gases Observing Satellite launched by Japan in 2009 ?
(a) Ibuki. (b) Tadami.
(c) Akatsuki. (d) Hayabusa.

92. Which among the following is the unit of measurement of the "Ecological Footprint" ?
(a) Global Hectare . (b) Gallon Per Capita.
(c) Cubic meter. (d) Man H.
93. Which among the following is the correct location of Tropical Forest Research Institute (TFRI) ?
(a) Jabalpur. (b) Jodhpur.
(c) Midnapore. (d) Bhopal.
94. Which among the following is the dangerous Green House Gas, created by the Waste Water ?
(a) Nitrogen. (b) Sulfur Dioxide.
(c) Methane. (d) Carbon Dioxide.
95. Official date of Earth Day is on _____.
(a) April 22. (b) March 22.
(c) May 22. (d) June 22.
96. Which of the following is considered as major source of pollution in rivers of India ?
(a) Unregulated small scale industry. (b) Untreated sewage.
(c) Agricultural run-off. (d) Thermal power plants.
97. Which of the following type of natural disaster has no definite beginning and end ?
(a) Earthquakes. (b) Droughts.
(c) Hurricanes. (d) Landsides.
98. Omicron is :
(a) Virus. (b) Bacteria.
(c) Fungus. (d) Algae.
99. A virus type that is capable of shifting from one computer to another without user interaction is known as a :
(a) Worm. (b) Trojan.
(c) Logic bomb. (d) Boot sector.
100. Which among the following expert panel related to recommend steps to preserve and rejuvenate the ecologically sensitive Western Ghats ?
(a) Devendra Pandey. (b) Dr. Madhav Gadgill.
(c) Dr. M. S. Swaminathan. (d) Dr. Vinod Rishi.