

END-SEMESTER EXAMINATION MARCH - APRIL 2017
UNDERGRADUATE PROGRAMME (ALL PROGRAMMES)
ADDITIONAL CORE COURSE
15U2ARENV1: ENVIRONMENTAL STUDIES

Time: Three Hours

Max. Marks: 75

General Instructions

| Sections | Question Types | No. of Questions | Instructions | Marks |
|----------|----------------------------|------------------|-------------------------------|-------------|
| PART A | Multiple Choice Questions | 50 | Answer ALL Questions | 50 x 1 = 50 |
| PART B | Short Essay Type Questions | 8 | Answer ANY FIVE (5) Questions | 5 x 5 = 25 |

- Questions from serial No. 1 to 50 are multiple choice questions. These are to be answered by selecting the correct choice in your Question cum Answer Booklet.
- Using an HB Pencil or Blue/Black Pen, circle the letter of the correct answer
- If you need to change an answer, erase the original mark thoroughly, and then mark your alternative answer. You may also cross out the original circle and mark the new answer
- Questions from serial No. 51 to 58 are Short Essay Type Questions. These are to be answered in the space provided in the booklet.

Part A

(Answer ALL questions)

- E. O. Wilson's book which won the award for 'Best Book on Environmental Issues'
 - Biodiversity
 - Diversity of Life
 - Nature
 - Man and Life
- World Forest day is celebrated on
 - 21st March
 - 5th June
 - 1st December
 - 7th June
- Magazine of Bombay Natural History Society is named as
 - Panda
 - Peacock
 - Tiger
 - Hornbill

4. Who among the following is commonly called 'Bird Man of India'?
 - A. Salim Ali
 - B. M.S. Swaminathan
 - C. M.C. Mehta
 - D. Raphel Emerson

5. Expand WWF
 - A. World Wide Fund for Nature
 - B. World Wide Fund for Forest
 - C. World Wide Fund for Environment
 - D. World Wide Fund for Biodiversity

6. What is the major limiting factor in the arid areas of our country?
 - A. money
 - B. forests
 - C. water
 - D. soil

7. The ocean covers _____ percentage of Earth's surface.
 - A. 51%
 - B. 61%
 - C. 71%
 - D. 91%

8. Name the country which virtually closed cod fishery in the 1990's due to depletion of fish reserves
 - A. Canada
 - B. Argentina
 - C. Italy
 - D. India

9. Major consumer of wood from forest is _____
 - A. Thermal Power Plant
 - B. Paper Industry
 - C. Chemical industry
 - D. None

10. The most harmful of ultraviolet radiations are
 - A. UV-C
 - B. UV-B
 - C. UV-A
 - D. All the above

11. Grassland of USA is referred to as
 - A. Prairies
 - B. Steppes
 - C. Pampas
 - D. Veldts

12. Wetlands in the flood plains of rivers are also considered as nature's _____
- A. Heat sink
 - B. carbon sink
 - C. flood control systems
 - D. swimming pool
13. The share of Hydropower (Hydel projects) in worlds commercial electricity production is less than
- A. 2%
 - B. 4%
 - C. 12%
 - D. 20%
14. Which among the following is the second largest in species richness?
- A. Desert
 - B. Tundra
 - C. Coral reefs
 - D. Flowing water
15. The complex network of interconnected food chains is called _____
- A. Trophic level
 - B. Food web
 - C. Ecological pyramid
 - D. Ecology chain
16. Ramsar Convention refers to the conservation of _____
- A. Deserts
 - B. Wetlands
 - C. Agriculture lands
 - D. Forest land
17. Sunderbans is home to
- A. Gangetic dolphin
 - B. Largest mangrove swamps
 - C. Coral reefs
 - D. Sandal wood
18. Some species whose removal can affect the survival of an ecosystem are called
- A. Guild
 - B. Keystone species
 - C. Producers
 - D. Carnivores
19. Plants adapted to open, sunny habitats are
- A. Sciophytes
 - B. Heliophytes
 - C. Mesophytes
 - D. Epiphytes

20. A Hawk that eats a frog is a
- A. Producer
 - B. Primary Consumer
 - C. Secondary Consumer
 - D. Tertiary Consumer
21. Lotic ecosystem refers to
- A. Static water system
 - B. Deep marine water system
 - C. Ecosystem of flowing water
 - D. Ecosystem of estuaries
22. The Indian Parliament passed the Biodiversity Bill in the year _____
- A. 2000
 - B. 2005
 - C. 2002
 - D. 2007
23. Which among the following is the first national park of Kerala?
- A. Aralam
 - B. Chinnar
 - C. Idukki
 - D. Eravikulam
24. National Park associated with rhinoceros is
- A. Kaziranga
 - B. Ranthambore
 - C. Corbett
 - D. Valley of flowers
25. Which of the following plants die after flowering?
- A. Lotus
 - B. Bamboo
 - C. Chrysanthemum
 - D. Butea
26. The Red Data book which lists endangered species is maintained by
- A. UNO
 - B. WHO
 - C. IUCN
 - D. WWF
27. World's first Teak Forest was planted in 1842 in Kerala. Identify the place.
- A. Wayanad
 - B. Nilambur
 - C. Silent Valley
 - D. Nelliampathy

28. The most important reason for decrease in biodiversity is
- A. habitat pollution
 - B. introduction of exotic species
 - C. overexploitation
 - D. habitat destruction
29. Hot spots are regions of
- A. high rarity
 - B. high endemism
 - C. critically endangered population
 - D. high diversity
30. Agastyamalai Biosphere reserve is in
- A. Pathanamthitta
 - B. Thiruvananthapuram
 - C. Idukki
 - D. Wayanad
31. Enrichment of water body by nutrients like phosphorus and nitrogen is called _____
- A. Succession
 - B. Eutrophication
 - C. Stratification
 - D. Climax Vegetation
32. Major cause of Ozone depletion is due to which chemical?
- A. ChloroFluoroCarbons
 - B. Polyphenols
 - C. Dioxins
 - D. Rayon
33. Euro II standard refers to _____
- A. Lowering sulfur content in fuel
 - B. Increasing sulfur content in fuel
 - C. Lowering carbon content in fuel
 - D. increasing carbon content in fuel
34. The historical monument that is affected by acid rain is
- A. Taj Mahal
 - B. Pyramid of Egypt
 - C. Pisa Tower
 - D. Golden Temple
35. The term 'Nuclear winter' is associated with
- A. Nuclear War
 - B. Nuclear disarmament
 - C. Nuclear weapon testing
 - D. After-effect of a nuclear explosion

36. The heating of earth's atmosphere due to trapped radiation is known as
- Global warming
 - Glass-House effect
 - Thermal effect
 - Green House Effect
37. Which of the following type of pollution can cause the outbreak of Jaundice
- air
 - thermal
 - water
 - land
38. BOD is used for the measurement of _____
- Atmospheric pollution
 - Soil pollution
 - Water pollution
 - Nuclear pollution
39. The movement 'Pani Panjayath' was initiated to conserve waters in the drought prone areas of _____ state.
- Tamilnadu
 - Rajasthan
 - Maharashtra
 - Karnataka
40. World Earth Day is observed on
- May 24
 - July 5
 - Aug 2
 - April 22
41. Environmental Protection Act was introduced in the year
- 1986
 - 1988
 - 1972
 - 1989
42. What is Bagasse? What is it used for?
- Sugar cane waste – to make paper
 - Biogas – used as fuel
 - Liquid waste – as fertilizer
 - Vermi compost – as fertilizer
43. Example for a bio-degradable polymer is
- Polyethylene
 - Polypropylene
 - Poly lactic acid
 - Polyester

44. The nations threatened by submergence on account of global warming are
- A. Pakistan and Afghanistan
 - B. Iran and Bangladesh
 - C. Peru and West Indies
 - D. Bangladesh and Maldives
45. Which is the warmest year on record?
- A. 1998
 - B. 2010
 - C. 2015
 - D. 2016
46. Superbugs are
- A. Synthetic bug
 - B. Bacteria
 - C. Radio nucleotide
 - D. Industries
47. Which blood cells get affected by HIV?
- A. RBC
 - B. Lymphocytes
 - C. Monocytes
 - D. Basophil
48. Causative organisms of Malaria is
- A. Bacteria
 - B. Fungus
 - C. Plasmodium
 - D. Virus
49. Presence of E. coli in water is an indication of what?
- A. Fecal contamination
 - B. Lead contamination
 - C. Viral contamination
 - D. Mercury contamination
50. What is 'Black Lung?'
- A. Occupational Hazard to the miners
 - B. Occupational Hazard to navigators
 - C. Occupational Hazard to pesticide applicators
 - D. None of these
- (50 x
1 =50)

Part B

(Answer any 5 questions)

51. List out and explain the role played by eminent personalities in shaping the environmental history in our country.
52. Give an account of energy resources which are less environment friendly. Suggest some alternatives that can replace the most polluting energy resources.
53. Explain the uses of aquatic ecosystems and suggest ways to conserve them
54. Explain *in-situ* and *ex-situ* conservation measures of biodiversity
55. What do you mean by solid waste management? Explain the control measures of urban and industrial waste.
56. What is Climate Change? Explain the effects of climate change
57. What do you mean by disaster management? Explain the steps involved in disaster management
58. Explain the importance of sustainable development in the present scenario. (5 x 5 =25)