

**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)

- Some species whose removal can affect the survival of an ecosystem are called
  - Guild
  - Keystone species
  - Producers
  - Carnivores
- Plants adapted to open, sunny habitats are
  - Sciophytes
  - Heliophytes
  - Mesophytes
  - Epiphytes
- A Hawk that eats a frog is a
  - Producer
  - Primary Consumer
  - Secondary Consumer
  - Tertiary Consumer

4. Lotic ecosystem refers to
  - A. Static water system
  - B. Deep marine water system
  - C. Ecosystem of flowing water
  - D. Ecosystem of estuaries
  
5. The Indian Parliament passed the Biodiversity Bill in the year \_\_\_\_\_
  - A. 2000
  - B. 2005
  - C. 2002
  - D. 2007
  
6. Which among the following is the first national park of Kerala?
  - A. Aralam
  - B. Chinnar
  - C. Idukki
  - D. Eravikulam
  
7. National Park associated with rhinoceros is
  - A. Kaziranga
  - B. Ranthambore
  - C. Corbett
  - D. Valley of flowers
  
8. Which of the following plants die after flowering?
  - A. Lotus
  - B. Bamboo
  - C. Chrysanthemum
  - D. Butea
  
9. The Red Data book which lists endangered species is maintained by
  - A. UNO
  - B. WHO
  - C. IUCN
  - D. WWF
  
10. World's first Teak Forest was planted in 1842 in Kerala. Identify the place.
  - A. Wayanad
  - B. Nilambur
  - C. Silent Valley
  - D. Nelliampathy
  
11. The most important reason for decrease in biodiversity is
  - A. habitat pollution
  - B. introduction of exotic species
  - C. overexploitation
  - D. habitat destruction
  
12. Hot spots are regions of
  - A. high rarity
  - B. high endemism
  - C. critically endangered population
  - D. high diversity

13. Agastyamalai Biosphere reserve is in  
A. Pathanamthitta  
B. Thiruvananthapuram  
C. Idukki  
D. Wayanad
14. Enrichment of water body by nutrients like phosphorus and nitrogen is called \_\_\_\_\_  
A. Succession  
B. Eutrophication  
C. Stratification  
D. Climax Vegetation
15. Major cause of Ozone depletion is due to which chemical?  
A. ChloroFluoroCarbons  
B. Polyphenols  
C. Dioxins  
D. Rayon
16. 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
17. The historical monument that is affected by acid rain is  
A. Taj Mahal  
B. Pyramid of Egypt  
C. Pisa Tower  
D. Golden Temple
18. The term 'Nuclear winter' is associated with  
A. Nuclear War  
B. Nuclear disarmament  
C. Nuclear weapon testing  
D. After-effect of a nuclear explosion
19. The heating of earth's atmosphere due to trapped radiation is known as  
A. Global warming  
B. Glass-House effect  
C. Thermal effect  
D. Green House Effect
20. Which of the following type of pollution can cause the outbreak of Jaundice  
A. air  
B. thermal  
C. water  
D. land
21. BOD is used for the measurement of \_\_\_\_\_  
A. Atmospheric pollution  
B. Soil pollution  
C. Water pollution  
D. Nuclear pollution

22. The movement 'Pani Panjayath' was initiated to conserve waters in the drought prone areas of \_\_\_\_\_ state.
- A. Tamilnadu
  - B. Rajasthan
  - C. Maharashtra
  - D. Karnataka
23. World Earth Day is observed on
- A. May 24
  - B. July 5
  - C. Aug 2
  - D. April 22
24. Environmental Protection Act was introduced in the year
- A. 1986
  - B. 1988
  - C. 1972
  - D. 1989
25. What is Bagasse? What is it used for?
- A. Sugar cane waste – to make paper
  - B. Biogas – used as fuel
  - C. Liquid waste – as fertilizer
  - D. Vermi compost – as fertilizer
26. Example for a bio-degradable polymer is
- A. Polyethylene
  - B. Polypropylene
  - C. Poly lactic acid
  - D. Polyester
27. 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
28. Which is the warmest year on record?
- A. 1998
  - B. 2010
  - C. 2015
  - D. 2016
29. Superbugs are
- A. Synthetic bug
  - B. Bacteria
  - C. Radio nucleotide
  - D. Industries
30. Which blood cells get affected by HIV?
- A. RBC
  - B. Lymphocytes
  - C. Monocytes
  - D. Basophil

31. Causative organisms of Malaria is
- A. Bacteria
  - B. Fungus
  - C. Plasmodium
  - D. Virus
32. Presence of E. coli in water is an indication of what?
- A. Fecal contamination
  - B. Lead contamination
  - C. Viral contamination
  - D. Mercury contamination
33. 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
34. E. O. Wilson's book which won the award for 'Best Book on Environmental Issues'
- A. Biodiversity
  - B. Diversity of Life
  - C. Nature
  - D. Man and Life
35. World Forest day is celebrated on
- A. 21<sup>st</sup> March
  - B. 5<sup>th</sup> June
  - C. 1<sup>st</sup> December
  - D. 7<sup>th</sup> June
36. Magazine of Bombay Natural History Society is named as
- A. Panda
  - B. Peacock
  - C. Tiger
  - D. Hornbill
37. Who among the following is commonly called 'Bird Man of India'?
- A. Salim Ali
  - B. M.S. Swaminathan
  - C. M.C. Mehta
  - D. Raphael Emerson
38. 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
39. What is the major limiting factor in the arid areas of our country?
- A. money
  - B. forests
  - C. water
  - D. soil

40. The ocean covers \_\_\_\_\_ percentage of Earth's surface.
- A. 51%
  - B. 61%
  - C. 71%
  - D. 91%
41. 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
42. Major consumer of wood from forest is \_\_\_\_\_
- A. Thermal Power Plant
  - B. Paper Industry
  - C. Chemical industry
  - D. None
43. The most harmful of ultraviolet radiations are
- A. UV-C
  - B. UV-B
  - C. UV-A
  - D. All the above
44. Grassland of USA is referred to as
- A. Prairies
  - B. Steppes
  - C. Pampas
  - D. Veldts
45. 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
46. The share of Hydropower (Hydel projects) in worlds commercial electricity production is less than \_\_\_\_\_
- A. 2%
  - B. 4%
  - C. 12%
  - D. 20%
47. Which among the following is the second largest in species richness?
- A. Desert
  - B. Tundra
  - C. Coral reefs
  - D. Flowing water
48. The complex network of interconnected food chains is called \_\_\_\_\_
- A. Trophic level
  - B. Food web
  - C. Ecological pyramid
  - D. Ecology chain

49. Ramsar Convention refers to the conservation of \_\_\_\_\_

- A. Deserts
- B. Wetlands
- C. Agriculture lands
- D. Forest land

50. Sunderbans is home to

- A. Gangetic dolphin
- B. Largest mangrove swamps
- C. Coral reefs
- D. Sandal wood

(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)