

TES-201

UTU

461

B.Tech (Sem.- II)

Even Semester Examination, 2017
ENVIRONMENTAL STUDIES

Booklet Code

'P'

Question Booklet
Number

100341

Roll No.

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[Time : 2 Hours]

[Maximum Marks : 50]

Instructions to the Examinee :

1. Do not open the booklet unless you are asked to do so.
2. The booklet contains 50 questions. Examinee is required to answer all 50 questions in the OMR Answer-Sheet provided and not in the question booklet. All questions carry equal marks.
3. Examine the Booklet and the OMR Answer-Sheet very carefully before you proceed. Faulty question booklet due to missing or duplicate pages/questions or having any other discrepancy should be got immediately replaced.
4. Four alternative answers are mentioned for each question as - A, B, C & D in the booklet. The candidate has to choose the most correct answer and mark the same in the OMR Answer-Sheet as per the direction :

Question :

Q.1 (A) ● (C) (D)

Q.2 (A) (B) ● (D)

Q.3 (A) ● (C) (D)

Illegible answers with cutting and over-writing or half filled circle will be cancelled.

5. In case the candidate does not fill the appropriate circle in the OMR Answer-Sheet and leave blank, 'Zero' mark will be given.
6. The candidate has to mark answers on the OMR Answer-Sheet with black or blue ball point pen only carefully as per directions.
7. There will be no negative marking.
8. Examinee, please handover the original Answer-Sheet to the invigilator before leaving the examination hall. Candidate can carry Question Booklet with him.
9. Rough work, if any, should be done on the blank page provided for the purpose at the end of booklet.
10. Write your Roll Number and other required details in the space provided on the title page of the booklet and on the OMR Answer-Sheet with ball point pen. **Do not use lead pencil.**
11. To bring and use of log-book, calculator, pager and cellular phone in examination hall is prohibited.

1. Greenhouse gases which is present in very high quantity is :
A. Propane
B. Ethane
C. Carbon dioxide
D. Methane
2. Layer of atmosphere in which Ozone layer lies is :
A. Exosphere
B. Mesosphere
C. Troposphere
D. Stratosphere
3. Air quality standards are based on :
A. Climate and topography
B. Ambient air quality alone
C. Dose of a pollutant
D. Method of measurement
4. A major part of air pollution load lies in :
A. Troposphere
B. Stratosphere
C. Thermosphere
D. Ionosphere
5. The state having the largest forest cover in India is :
A. Andhra Pradesh
B. Orissa
C. Maharashtra
D. Chattisgarh
6. Which one of the following is necessary for the growth and maintenance of animal bones and teeth?
A. Hydrogen
B. Oxygen
C. Phosphates
D. Sulphur
7. Which of the following organisms are used as components of biofertilisers ?
A. Blue green algae only
B. Coliform bacteria and mushrooms
C. N-fixing bacteria only
D. Blue green algae and N-fixing bacteria
8. The dominant gas in biogas is :
A. CH_4
B. C_2H_5
C. CO_2
D. NO_2

Text

9. The directions for the regulation, prohibition or the closure of any industry are given by :
- A. State government
 - B. Central government
 - C. State Pollution Control Board
 - D. Central Pollution Control Board
10. Which of the following methods is suitable for hypothesis testing ?
- A. Two way analysis of variance
 - B. T-test
 - C. Cluster Analysis
 - D. Correlation and regression
11. Among the following which country has lowest per capita green house gas emission ?
- A. France
 - B. India
 - C. China
 - D. Mexico
12. Decrease in India's forest cover is attributed mainly to :
- A. Urbanization and Industrialization
 - B. Agriculture and Dairying
 - C. Rail and Road Construction
 - D. Mining and Power Plants
13. Green house effect is warming due to:
- A. Infra-red rays reaching earth
 - B. Moisture layer in atmosphere
 - C. Increase in temperature due to increase in carbon dioxide concentration of atmosphere
 - D. Ozone layer of atmosphere
14. Soil conservation is :
- A. Conversion of sterile soil into fertile one
 - B. Aeration of soil
 - C. Erosion of soil
 - D. Protection against loss.
15. Major aerosol pollutant in jet plane emission is :
- A. Sulphur dioxide
 - B. Carbon monoxide
 - C. Methane
 - D. Fluorocarbon
16. Pyramid of numbers in a grassland/tree ecosystem :
- A. Always inverted
 - B. Always upright
 - C. Both (A) and (B)
 - D. Spindle-shaped

25. When huge amount of sewage is dumped into a river, its B.O.D. will ?
A. Slightly decrease
B. Remain unchanged
C. Increase
D. Decrease
26. In a biotic community, the primary consumers are :
A. Detritivores
B. Herbivores
C. Carnivores
D. Omnivores
27. Which country has the greatest contribution for the whole formation in ozone layer ?
A. Russia
B. Japan
C. USA
D. Germany
28. The most common indicator organism that represents polluted water is :
A. C.vibrio
B. Entamoeba histolytica
C. E.coli
D. P.Typhi
29. In coming years, skin related disorders will be more common due to :
A. Water pollution
B. Depletion of ozone layer
C. Pollutants in air
D. Use of detergents
30. Radioactivity is measured by :
A. Geiger-Muller counter
B. Polarimeter
C. Calorimeter
D. Colorimeter
31. Amongst the following Indian States which one has the minimum total forest cover ?
A. Sikkim
B. Goa
C. Haryana
D. Kerala
32. MAB stands for :
A. Mammals and biosphere
B. Mammals and biology programme
C. Man and biology programme
D. Man and biosphere programme

17. Acid rain is due to increase in atmospheric concentration of :
- A. Ozone and dust
 - B. CO_2 and CO
 - C. SO_2 and CO
 - D. SO_2 and NO
18. Food chain in which microorganisms breakdown the food formed by primary producers is :
- A. Parasitic food chain
 - B. Detritus food chain
 - C. Consumer food chain
 - D. Predator food chain
19. Pick up the correct food chain :
- A. Grass \rightarrow chameleon \rightarrow insect \rightarrow bird
 - B. Grass \rightarrow fox \rightarrow rabbit \rightarrow bird
 - C. Phytoplankton \rightarrow zooplankton \rightarrow fish
 - D. Fallen leaves \rightarrow bacteria \rightarrow insect larvae
20. Most hazardous metal pollutant of automobile exhausts is :
- A. Mercury
 - B. Cadmium
 - C. Lead
 - D. Copper
21. Ultraviolet radiations from sunlight causes a reaction with oxygen that produces :
- A. Fluorides
 - B. Carbon monoxide
 - C. Sulphur dioxide
 - D. Ozone
22. Study of inter-relationships between organisms and their environment is :
- A. Ecology
 - B. Ecosystem
 - C. Phytogeography
 - D. Ethology
23. Which of the following statement about the forest is not correct :
- A. Forest reduces soil erosion
 - B. Provides recreational opportunities
 - C. Provides economic development
 - D. None of the above
24. Sounds above what level are considered hazardous noise pollution?
- A. Above 30 dB
 - B. Above 50 dB
 - C. Above 80 dB
 - D. Above 120 dB

33. Which of the following acts as "nature's scavengers" ?
- A. Insects
 - B. Microorganisms
 - C. Man
 - D. Animals
34. A fossil fuel is best described as :
- A. A flammable solid or gas
 - B. A fuel that contains carbon
 - C. Fossilised rock that will burn in a power station
 - D. A flammable substance formed from ancient biological material
35. Chipko movement was started to conserve :
- A. Forests
 - B. Grasslands
 - C. Deserts
 - D. Soil
36. Food chain always starts with :
- A. Respiration
 - B. Transpiration
 - C. Nitrogen fixation
 - D. Photosynthesis
37. Consumers are also called :
- A. Photoautotrophs
 - B. Saprotrophs
 - C. Heterotrophs
 - D. Reducers
38. As per IPAT equation impact of environment degradation depend :
- A. Population, Affluence and technology
 - B. Population and industrialization
 - C. Urbanization and poverty
 - D. Population, Pollution
39. The layer which provides ideal site for flying of jet planes is :
- A. Thermosphere
 - B. Stratosphere
 - C. Mesosphere
 - D. Troposphere
40. Which of the following are important biotic factors that can affect the structure and organization of biological communities ?
- A. Nutrient availability, soil pH, light intensity
 - B. Precipitation, wind, temperature
 - C. Predation, competition, disease
 - D. All of the above

41. 21st March is observed as :

- A. World forest day
- B. World environment day
- C. World wildlife day
- D. World population day

42. 5th June is observed as :

- A. World forest day
- B. World environment day
- C. World wildlife day
- D. World population day

43. Study of trends in human population growth and prediction of future growth is called :

- A. Demography
- B. Biography
- C. Paleography
- D. Psychology

44. Most stable ecosystem is :

- A. Forest
- B. Desert
- C. Ocean
- D. Mountain

45. In India, Tropical rain forest occurs in:

- A. Jammu and Kashmir
- B. Andaman & Nicobar
- C. Uttar Pradesh
- D. Himachal Pradesh

46. Deforestation generally decreases :

- A. Rainfall
- B. Soil erosion
- C. Draught
- D. Global warming

47. If waste materials contaminate the source of drinking water which of the following diseases will spread ?

- A. Scurvy
- B. Typhoid
- C. Malaria
- D. Anaemia

48. Biochemical oxygen demand means :

- A. Industrial pollution
- B. Air pollution
- C. Polluting capacity of effluent
- D. Dissolved O₂ needed by microbes to decompose organic waste

49. The TAJ MAHAL at AGRA may be damaged by :

- A. Sulphur dioxide
- B. Chlorine
- C. Hydrogen
- D. Oxygen

50. Which ecological unit or relationship is least related to abiotic factors ?

- A. Community
- B. Symbiosis
- C. Population
- D. Species