

PG Odd Semester (CBCS) Exam., December—2016

ENVIRONMENTAL STUDIES

( 3rd Semester )

Course No. : MCS-301/BVACC-301/BSWCC-301

Full Marks : 70

Pass Marks : 28

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

PART—A

Choose the correct answer : 1×30=30

1. Natural landscapes consist of
- (a) forest
  - (b) agricultural field
  - (c) football field
  - (d) None of the above

2. Public awareness can be spread through
- (a) newspaper
  - (b) radio
  - (c) television
  - (d) All of the above

3. The book, *Origin of Species* was written by
- (a) Aldo Leopold
  - (b) Rachel Carson
  - (c) Charles Darwin
  - (d) Madhav Gadgil

4. The term 'ecology' was first proposed by
- (a) E. P. Odum
  - (b) J. Lamarck
  - (c) Ernst Haeckle
  - (d) None of them

5. The correct pattern of energy flow is
- (a) grass—sheep—wolf
  - (b) sheep—wolf—grass
  - (c) owl—snake—frog
  - (d) None of the above

6. An energy pyramid
- (a) is sometimes upright
  - (b) may be inverted
  - (c) is always upright
  - (d) None of the above
7. The forest cover of India according to FSI Report, 2015 is
- (a) 25.34%
  - (b) 24.34%
  - (c) 22.34%
  - (d) 21.34%
8. Teak is present in
- (a) evergreen forest
  - (b) mangrove forest
  - (c) deciduous forest
  - (d) thorn forest
9. Kaziranga is a
- (a) national park
  - (b) wildlife sanctuary
  - (c) biosphere reserve
  - (d) None of the above

10. Which NGO is associated with 'Chipko Movement'?
- (a) Kalpavriksh
  - (b) Dasholi Gram Swarajya Mandal
  - (c) Green Peace
  - (d) Srishti
11. Bhopal Gas Tragedy occurred due to the leakage of
- (a) MIC
  - (b) DDT
  - (c) SO<sub>2</sub>
  - (d) NO<sub>2</sub>
12. Mangrove forest is found in
- (a) Mizoram
  - (b) Meghalaya
  - (c) Haryana
  - (d) West Bengal
13. Forest is a
- (a) non-renewable resource
  - (b) renewable resource
  - (c) None of the above
  - (d) Both of the above

14. Shifting cultivation is mainly practised in
- (a) forested tract
  - (b) plain land
  - (c) riverbanks
  - (d) wastelands
15. Soil erosion is caused by
- (a) only wind
  - (b) only water
  - (c) only human activities
  - (d) All of the above
16. Non-renewable resources include
- (a) coal
  - (b) trees
  - (c) bacteria
  - (d) All of the above
17. *In-situ* conservation involves
- (a) conservation within habitat
  - (b) conservation outside habitat
  - (c) conservation both within and outside habitat
  - (d) None of the above

18. The unit of radioactivity is
- (a) Freon
  - (b) rad
  - (c) curie
  - (d) pascal
19. Which of the following is biodegradable?
- (a) Jute
  - (b) Polythene
  - (c) DDT
  - (d) All of the above
20. Arsenic is found in
- (a) pesticide
  - (b) aerospace industry
  - (c) plastics
  - (d) None of the above
21. Incineration is a
- (a) chemical process
  - (b) physical process
  - (c) biological process
  - (d) All of the above

- 22.** Which one is not a heavy metal?  
(a) Mercury  
(b) Lead  
(c) Arsenic  
(d) Carbon
- 23.** Rainwater in unpolluted areas has a pH of around  
(a) 6.5  
(b) 4.0  
(c) 5.6  
(d) 4.5
- 24.** The gas responsible for global warming is  
(a) CO<sub>2</sub>  
(b) H<sub>2</sub>  
(c) O<sub>2</sub>  
(d) C<sub>2</sub>H<sub>2</sub>
- 25.** GIS stands for  
(a) Geographical Information System  
(b) Geographical Indian System  
(c) Geomorphological Information System  
(d) None of the above

- 26.** The event of climate extremes is  
(a) flood and drought  
(b) natural forest  
(c) good agricultural production  
(d) None of the above
- 27.** The Forest (Conservation) Act was enacted in  
(a) 1968  
(b) 1972  
(c) 1974  
(d) 1980
- 28.** The Wildlife Protection Act was enacted in  
(a) 1990  
(b) 1972  
(c) 1973  
(d) 1974
- 29.** Urbanization involves  
(a) poor health  
(b) good infrastructure  
(c) more agricultural areas  
(d) None of the above

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30. *Vibrio cholerae* is responsible for
- (a) diarrhea
  - (b) AIDS
  - (c) dysentery
  - (d) All of the above

PART—B

Answer the following in short :  $2 \times 10 = 20$

31. Define environmental studies.
32. Define primary and secondary successions.
33. Write the characteristic feature of desert ecosystem.
34. Define natural resources.
35. State the environmental impacts of the use of fossil fuel.
36. Write on the value of biodiversity.

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( Turn Over )

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37. What is rainwater harvesting? Give two examples.
38. Define pollution.
39. What are the various threats to biodiversity?
40. What are the different environmental values?

PART—C

Answer any *two* of the following :  $10 \times 2 = 20$

41. Describe the productive value of nature.
42. Describe the different forest functions.
43. Define energy. Describe the energy flow in the ecosystem.  $2 + 8 = 10$
44. Illustrate the different long-term effects of radiation on human being.

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45. Write about the impact of urbanization on the social environment.
46. Describe the control of urban and industrial waste.
47. Give an account of the global population growth.

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