

KATHMANDU UNIVERSITY
End Semester Examination
May/June, 2022

Level : B.Sc.

Year : I

Exam Roll No. :

Time: 30 mins.

Course : ENV5 101

Semester : II

F. M. : 20

Registration No.:

Date : June-09, 2022

SECTION "A"

[16 Q. × 0.5 = 8 marks]

Mark [×] against the most appropriate option.

1. The ultimate source of energy is/are
[] the plants [] the fossil fuels [] the sun [] the food materials
2. Haematite is an ore of
[] Iron [] Aluminium [] Copper [] Silver
3. Which of the following is also referred to as the skin of the earth?
[] wetlands [] forests [] soil [] tectonic plates
4. Which of the following is the largest producer of Uranium?
[] Kyrgyzstan [] Kazakhstan [] Uzbekistan [] Afghanistan
5. PM_{2.5} affects
[] the digestive system [] the reproductive system
[] the respiratory system [] the excretory system
6. Which of the following is a cold desert?
[] the Sahara [] the Thar [] the Gobi [] the Mojave
7. Which of the following sequence is **CORRECT**?
[] zooplanktons-phytoplanktons- planktivores- piscivores
[] zooplanktons-phytoplanktons- piscivores- planktivores
[] phytoplanktons- zooplanktons-piscivores-planktivores
[] phytoplanktons-zooplanktons-planktivores-piscivores
8. Which of the following is **WRONG** about denitrification?
[] It is a microbial process.
[] It is the conversion of nitrates and nitrites to nitrous oxide and nitrogen.
[] It is the conversion of organic matter to ammonia.
[] It is a reduction process.
9. Bitumen and anthracites are types of
[] fertilizers [] petroleum by products
[] coal [] shale
10. Mutualism illustrates
[] +, - relationship. [] +, + relationship.
[] +, 0 relationship. [] -, - relationship.

SECTION "C"

[10 marks]

Fill in the blanks.

18. The second CBD was held at _____.
19. The full form of MEA is _____.
20. The acronym HIPPO stands for _____, _____,
_____, _____ and _____.
21. Pesticides that kill fungi are called _____.
22. _____ are the primary producers in an open ocean waters.
23. When two or more processes interact so that the combined effect is greater than the sum of their separate effects, then such interactions are called _____.
24. Functional attributes of a species is known as _____.
25. _____ is the most commonly used material in nuclear power plants.
26. Agroforestry is the practice of plantation of _____ and
_____.
27. Large ocean waves generated during earthquakes are called _____.
28. Severe shortage of food in an area accompanied by mass starvation, many deaths, economic chaos, and social disruption is called _____.
29. Initial set(s) of data that serves as the basis for comparison with subsequently acquired data are called _____.
30. Soil or rock overlying a useful mineral deposit is called _____.
31. Bauxite is an ore of _____.
32. Influx of sea water into groundwater is called _____.



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Level : B.Sc.
Year : I
Time : 2 hrs. 30 mins.

Course : ENVS 101
Semester : II
F.M. : 55

SECTION "D"

[3 Q. × 7 = 21 marks]

Attempt *ALL* questions.

1. Give an account of the advantages and disadvantages of industrialized and traditional agricultural systems with appropriate examples.
2. Describe how global biodiversity distribution is shaped by temperature and precipitation regimes.
3. List out at least two types of each of renewable and non-renewable source of energies. Describe the advantages and disadvantages of each of them.

SECTION "E"

4. Write short notes on: [4Q × 3 = 12]
 - a. The Basel Convention
 - b. Principle of 5 Rs in solid waste management
 - c. Soil profile
 - d. Industrial ecology
5. Differentiate between (*ANY FOUR*): [4Q × 2 = 8]
 - a. Inductive reasoning and deductive reasoning
 - b. Waste management approach and waste reduction approach
 - c. First generation pesticides and second generation pesticides
 - d. Hazard and risk
 - e. Mutualism and commensalism
6. Give reasons **why** (*ANY FOUR*): [4Q × 2 = 8]
 - a. Carbon is considered as a thermostat of the earth.
 - b. Long food chains/webs are not possible in nature.
 - c. Carbon-monoxide is more toxic than carbon-dioxide.
 - d. Fossil fuels are considered non-renewable resources.
 - e. MDCs have larger ecological footprints than those of LDCs.
7. List the following: [2Q × 3 = 6]
 - a. A cultural, a provisioning and a regulatory service of a river from Nepal.
 - b. An example of a bilateral, a regional and a multilateral environmental convention/treaty with their significance.

