

ZOOLOGY PAPER II (NEW) : ZOO-122
Ecology

P. Pages : 3

Time : Two Hours

Max. Marks : 40

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Figures to the right indicates full marks.
6. Draw neat labelled diagrams wherever necessary.

1. Multiple choice attempt **any eight**.

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- i) The study of population of the different species of a ecosystem concerning their birth and death rate is known as ecology.
 - a) habitat
 - b) population
 - c) paleoecology
 - d) Taxonomic
- ii) The organism like fungi and bacteria, which are responsible for decomposition are called
 - a) Producer
 - b) Consumers
 - c) Decomposers
 - d) none
- iii) is a semi-enclosed coastal body of water, which connect with the sea.
 - a) River
 - b) Estuary
 - c) Pond
 - d) Lake
- iv) Solar, wind and are common sources of non-conventional energy.
 - a) coal
 - b) lignite
 - c) biogas
 - d) petroleum
- v) Nitrogen is found in protein and nucleic acids, but its primary source is
 - a) hydrosphere
 - b) biosphere
 - c) atmosphere
 - d) lithosphere

- vi) The adjustments made by organism in response to specific environmental conditions are called
 - a) adaptation
 - b) adaptor
 - c) aestivation
 - d) assimilation
- vii) is the by product of photosynthesis.
 - a) oxygen
 - b) carbon-dioxide
 - c) carbon monoxide
 - d) nitrogenoxide
- viii) Acid rain pollution is a form of pollution.
 - a) water
 - b) air
 - c) soil
 - d) sound
- ix) The pre-predator food chain is also known as food chain.
 - a) Detritus
 - b) Saprophytic
 - c) Grazing
 - d) Parasitic
- x) The autotrophs contains pigment with which they can prepare their own food material.
 - a) Xanthophyll
 - b) Chlorophyll
 - c) Chromophyll
 - d) Leucophyll

2. Define / Explain / Comments any four.

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- a) Ecology.
- b) Trophic level.
- c) Estuaries.
- d) Nitrification.
- e) Global warming.
- f) Wild life conservation.

3. Attempt any two of the following.

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- Describe causes and effects of acid rain.
- Explain aerial adaptation with suitable example.
- Describe water cycle with suitable example.

4. a) Attempt **any two** of the following. 6
- i) Describe prey-predator food chain in grassland ecosystem.
 - ii) Explain effect of global warming on human health.
 - iii) Sketch and label biogas plant.
- b) What is producer. 2
5. Attempt **any one** of the following. 8
- a) What is soil profile ? With the help of suitable diagram briefly explain soil profile.
 - b) Define biomass energy. Explain brief account on types of biomass energy.
