BIODIVERSITY-IIAND ECOLOGY-B

Time Allowed: Three Hours | [Maximum Marks: 75]
Note: Attempt one questions each from Sections A, B,C and D carrying 15 marks each and the entire Section
E consisting of 10 short answer type questions carrying 1½ marks each.

Describe the respiratory system of *Periplaneta Americana*. Write short note on antennary gland of Prawn. Draw well labelled diagram of circulatory system of Pila. Write short note on pedicellariae of Starlish. 1. 71/2+71/2=15 2 10+5=15 Section: B 3. Classify the following and write ecological note on each of the following: Locust Hermit crab. Centripede. Anodonta. 5×3=15 (e) Loligo (d) Write general features of Phylum Arthropoda. Give diagnostic features of Phylum Mollusca. 4. 10+5=15 Section: C (a) Write note on energy pyramid.
 (b) Describe briefly 'nitrogen cycle' in nature.
 Describe various morphological adaptations in animals in different habitat. 15
 Section: D

 (a) What are non-renewable resources? How these can be conserved?
 (b) Write short note on the importance of biodiveristy.
 Write the major causes and impact of soil pollution. 5. 71/2+71/2=15 6. 7. 7½+7½=15 8. Explain briefly note on the following:

(a) What is radula? Give radular formula.

(c) Differentiate between insect and spider. 9. Define haemocoel. Define predatin and commensalism. Name three species of honey bee. What is meant by noise pollution?

How does hemichordates resemble with chordates?

Give an example of negative interaction (niterspecific).

Draw diagram of leg of cockroach and label various podomeres.

Give the main monphological difference between male and female cockroach. 11/2×10=15

Section: A