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6. Write short note on any **three** of the following :

(5,5,5)

- (a) Image formation in arthropods
- (b) Protochordates
- (c) General characters of helminths
- (d) Pearl formation
- (e) Metamerism in annelids

(1000)

[This question paper contains ~~4 printed~~ pages.]

Your Roll No.....

Sr. No. of Question Paper : 1567

I

Unique Paper Code : 2232581101

Name of the Paper : Animal Form and Structure

Name of the Course : **B.Sc. (P) Applied Life Sciences with Agro-chemicals and Pest Management**

Semester : I

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **Four** questions in all.
3. Question No. 1 is compulsory. Draw well labelled diagram wherever required.

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1. (a) Define the following (Any three) : (3)

- (i) Apolysis
- (ii) Bilateral Symmetry
- (iii) Deuterostomia
- (iv) Synsacrum

(b) Differentiate between the following pairs of terms (Any three) : (6)

- (i) Polyp and Medusa
- (ii) Protototheria and Metatheria
- (iii) Cartilaginous and Bony fishes
- (iv) Anura and Urodela

(c) Write the precise location of following structures: (3)

- (i) Radula
- (ii) Jacobson's Organ
- (iii) Air Bladder

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(d) State whether the following statements are true or false : (3)

- (i) All helminths live a parasitic mode of life.
- (ii) Pisces and amphibians exhibit the phenomenon of parental care.
- (iii) All mammals show viviparity.

2. (a) Discuss the types of canal system in Porifera with the help of suitable diagrams. (9)

(b) Give a brief account of the water vascular system in asteroids. (6)

3. Explain the locomotory organelles and modes of locomotion in protozoans with the help of diagrams. (15)

4. Discuss the flight adaptations in birds with the help of illustrations. (15)

5 (a) Describe the phenomenon of migration in fishes. (8)

(b) Describe the biting mechanism in snakes. (7)

P.T.O.