



JAX-003-1183001 Seat No. _____

M. Sc. (Zoology) (Sem. III) (CBCS)

(W.E.F. 2016) Examination

December – 2019

**ZOOL - 313 : Structure & Functions of
Invertebrates**

Faculty Code : 003

Subject Code : 1183001

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 Answer the following very briefly : (any seven) **2×7=14**

- (a) Define 'Pest', give examples.
- (b) Write names of few useful insects.
- (c) Name four parasitic invertebrates.
- (d) Name two respiratory pigments.
- (e) Name major invertebrate phyla.
- (f) What is larval forms ?
- (g) Define 'Classification'.
- (h) Write scientific names of few invertebrates.
- (i) Name few minor phyla.
- (j) Name four terrestrial invertebrates.

2 Answer the following : (any two) **7×2=14**

- (a) Classify Minor Phyla giving their general characteristics features.
- (b) Describe the larval forms of a major free living invertebrates.
- (c) Write a note on the patterns of feeding and digestion in invertebrates.

- 3** Answer the following : **7×2 =14**
(a) Describe the mode of locomotion in invertebrates.
(b) Describe the handling methods for invertebrates.

OR

- 3** Answer the following : **7×2=14**
(a) Write a short note on the excretory organs of the invertebrates.
(b) Write a note on the larval forms of few major parasitic invertebrates.

- 4** Answer the following : **7×2=14**
(a) Write a brief note on the pest control and management.
(b) Write a note on the useful insects.

- 5** Answer the following : (any two) **7×2=14**
(a) Describe various respiratory mechanisms observed in the invertebrates.
(b) Write a short note on two agricultural pests and their control.
(c) Describe major preservation methods for preserving invertebrates.
(d) Briefly describe the evolutionary significance of larval forms.
