## 5/H-63 (v) (Syllabus-2015)

#### 2018

(October)

## **ZOOLOGY**

(Honours)

### FIFTH PAPER

# ( Functional Anatomy, Zoogeography and Adaptations )

Marks: 56

Time: 3 hours

The figures in the margin indicate full marks for the questions

nswer Question No. 1 and any four from the rest

. Write in brief on any three of the following:

4×3=12

- (a) Spicules of sponges
- (b) Chewing and sucking mouthparts of insects
- (c) Fins in fishes
- (d) Four differences between poisonous/ venomous and non-poisonous/ non-venomous snakes
- (e) Differences between protective and aggressive mimicry

5½×2=11

- 2. Define polymorphism. Describe polymorphism in Siphonophora with the help of suitable diagrams. Add a note on the significance of polymorphism. 2+7+2=
- 3. Describe the general characters and affinities 5+6=
- 4. Describe in detail the following: (a) Coral reefs
  - (b) Migration of fishes
- 5. Write critical notes on any two of the following.
  - (a) Affinities of Onychophora
  - (b) Affinities of Amphioxus
  - (c) Affinities of marsupials
- 6. What is zoogeography? Name the different zoogeoprant. zoogeography? Name the dure the faunal at realms of the world. Describe the faunal distribution in these realms.
- 7. Describe the following: 51/2+51/2=1
  - (a) Aquatic adaptations of vertebrates (b) Structural features of a compound eye of insects

- 8. Write short notes on any two of the following:
  - (a) Locomotion in Protozoa
  - Dentition in Mammals
  - Coelomoducts in Annelida

(Continue

51/2+51/2=1

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