



# UNIVERSITY OF THE PUNJAB

**B.S. 4 Years Program : First Semester – 2020**

Paper: Zoology-I (Invertebrate Diversity)

Course Code: ZOOL-101

Part – I (Compulsory)

Time: 15Min. Marks: 10

Roll No. in Fig. ....

Roll No. in Words. ....

**Attempt this Paper on this Question Sheet only.**

**Division of marks is given in front of each question.**

**This Paper will be collected back after expiry of time limit mentioned above.**

.....  
Signature of Supdt.:

**Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)**

1. True Jelly fish belong to class
  - a. Hydrozoa
  - b. Cubozoa
  - c. Scyphozoa
  - d. Anthozoa
2. Gemmules are formed for
  - a. Asexual Reproduction
  - b. Body growth
  - c. Sexual Reproduction
  - d. Digestion
3. Sea lilies belong to the class
  - a. Crinoidea
  - b. Echinoidea
  - c. Ophiuroidea
  - d. holothuroidea
4. Torsion is the twisting of the visceral mass, mantle and mantle cavity 180 °
  - a. Clockwise
  - b. Anti-clockwise
  - c. Rotational
  - d. Counter-clockwise
5. The segmental arrangement of the body parts in an animal is called
  - a. Torsion
  - b. Metamerism
  - c. Tagmatization
  - d. Metamorphosis

6. The Foot of some Gastropods is modified for
  - a. Clinging
  - b. Walking
  - c. Swimming
  - d. Crawling
7. The asexual and sessile stage of Cnidarian is
  - a. Medusa
  - b. Polyp
  - c. Planula
  - d. Statocyst
8. Comb Jellies belong to phylum
  - a. Echinodermata
  - b. Cnidaria
  - c. Ctenophora
  - d. Arthropoda
9. Euplectella (Venus flower basket) belongs to the class
  - a. Calcarea
  - b. Demospongiae
  - c. Hexactinellida
  - d. Spongiae
10. The primary host for the life cycle of Taenia solium is
  - a. Man
  - b. Pig
  - c. Goat
  - d. Sheep



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Part – II

Time: 2 Hrs. 45 Min. Marks: 50

**ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED**

**Q.2. Give short answers of the following:**

**(10X2=20)**

1. How does tapeworm obtain Nutrition?
2. What is Multiple allele?
3. What is eutely and its significance?
4. What is Complete linkage?
5. What is Protandry?
6. What is Hydrostatic skeleton?
7. What are Deletions?
8. What is Pentaradial symmetry?
9. What is Mutualism?
10. What is Polyploidy?

**Q.3. Give brief answers of the followings.**

**(3x10=30)**

- I. Write a note on the Phylum Annelida? (10)
- II. Write a detailed note on Mendelian Law of Segregation? (10)
- III. What is Population Genetics? Explain about the Natural selection? (10)