

FEDERAL PUBLIC SERVICE COMMISSION



COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2013

Roll Number

ZOOLOGY, PAPER-I

TIME ALLOWED:	(PART-I MCQs) 30 MINUTES	MAXIMUM MARKS: 20
THREE HOURS	(PART-II) 2 HOURS & 30 MINUTES	MAXIMUM MARKS: 80
NOTE: (i) First attempt PART-I (MCQs) on separate OMR Answer Sheet which shall be taken back after 30 minutes.		
(ii) Overwriting/cutting of the options/answers will not be given credit.		

PART-I ((MCQs) (COMPULSORY)

Q.1. (i) Select the best option/answer and fill in the appropriate Circle ● on the OMR Answer Sheet. (20x1=20)
(ii) Answers given anywhere, other than OMR Answer Sheet, shall not be considered.

- Metamerically segmented worms belong to phylum:
(a) Nematoda (b) Platyhelminthes (c) Annelida (d) None of these
- Which of the following is a multiflagellate Protozoa?
(a) Ceratium (b) Noctiluca (c) Leishmania (d) None of these
- Spicules are secreted by:
(a) Scleroblasts (b) Nematoblasts (c) Endoblasts (d) None of these
- Which of the following is a porous opening through which water enters the hydrocoel of an echinoderm?
(a) Pedicellaria (b) Tube feet (c) Madreporite (d) None of these
- The body cavity of most triploblastic animals formed by splitting the mesoderm into an outer and an inner layer is called:
(a) Coelentron (b) Coelom (c) Colon (d) None of these
- Compound eyes are found in:
(a) Platyhelminthes (b) Echinodermate (c) Mollusca (d) None of these
- Egg-laying mammals are placed in sub class:
(a) Metatheria (b) Prototheria (c) Theria (d) None of these
- Open circulatory system is found in:
(a) Birds (b) Earthworms (c) Cockroaches (d) None of these
- Bivalve molluscs are usually:
(a) Scavengers (b) Deposit feeder (c) Filter feeder (d) None of these
- The pillar or central axis around which the whorls of a gastropod shell are coiled is called:
(a) Columella (b) Collembola (c) Colloblasts (d) None of these
- The ninth vertebra of frog is known as:
(a) Cervical (b) Sacral (c) Urostyle (d) None of these
- The stage in an embryo in which the primary germ layers have been laid down is called:
(a) Gastrula (b) Blastula (c) Morula (d) None of these
- A fish which migrates down river to spawn in the sea is called:
(a) Anadromous (b) Catadromous (c) Dromiacea (d) None of these
- Which of the following has four-chambered heart?
(a) Dog fish (b) Frog (c) Pigeon (d) All of these
- Facets by which vertebrae articulate with one another are called:
(a) Metapophyses (b) Parapophyses (c) Zygapophyses (d) None of these

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16. The inner membrane of the two foetal membranes in reptiles, birds and mammals is called:
(a) Amnion (b) Chorion (c) Peritoneum (d) None of these
17. Amphioxus is an example of:
(a) Urochordata (b) Cyclostomata (c) Hemichordata (d) None of these
18. Filarial worm (genus Wuchereria) belong to phylum:
(a) Nematoda (b) Platyhelminthes (c) Annelida (d) None of these
19. Notochord is formed from primary:
(a) Ectoderm (b) Mesoderm (c) Endoderm (d) All of these
20. Shell fish includes:
(a) Shrimp, Crabs and eel fish (b) Dog fish, crabs and lobsters
(c) Lobsters, crabs and shrimps (d) All of these

PART-II

- NOTE:** (i) **Part-II** is to be attempted on the separate **Answer Book**.
(ii) Candidate must write **Q. No.** in the **Answer Book** in accordance with **Q. No.** in the **Q. Paper**.
(iii) Attempt **ONLY FOUR** questions from **PART-II**, selecting **TWO** questions from **EACH SECTION**. **ALL questions carry EQUAL marks**.
(iv) Extra attempt of any question or any part of the attempted question will not be considered.

SECTION-A

- Q.2.** (a) Give an account of life cycle of Fasciola hepatica. (10)
(b) Describe the various types of larval forms found in crustacea. (10)
- Q.3.** (a) What is the difference between corallite and coral reef? Give a detailed account of the various forms of coral reefs. (10)
(b) Write an essay on parasitic adaptation in platyhelminthes. (10)
- Q.4.** (a) Describe the morphology and microscopic structure of the shell of a gastropod mollusc such as Pila. (10)
(b) Describe the water vascular system of star fish. (10)
- Q.5.** Write short notes on the following:- (5 each) (20)
(a) Binary fission in Paramecium (b) Flame cells
(c) Leishmaniasis (d) Spicules

SECTION-B

- Q.6.** (a) Describe various types of heart found in the vertebrate. (10)
(b) Give an account of flight adaptation of birds. (10)
- Q.7.** (a) Describe the pelvic girdle of frog with the help of labelled diagram. (10)
(b) Give a detailed structure of the eye of frog. (10)
- Q.8.** Write short notes on the following:- (5 each) (20)
(a) Biting mechanism of snakes (b) Placenta
(c) Fish scales (d) Neuron
