

FEDERAL PUBLIC SERVICE COMMISSION



COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2011

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 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.** Select the best option/answer and fill in the **appropriate box** on the **Answer Sheet**. (1 x 20=20)
- (i) The disease causing protozoan is:
(a) Amoeba (b) Paramecium (c) Stentor (d) Trypanosoma (e) None of these
- (ii) Binucleate protozoan is:
(a) Mastigo-amoeba (b) Toxoplasma (c) Didymium (d) Trichonympha (e) None of these
- (iii) Spicules in sponges are secreted by cells called:
(a) Chromocytes (b) Thesocytes (c) Scleroblasts (d) Spongoblast (e) None of these
- (iv) Which one of the following coelenterate is also called Portuguese-man of war:
(a) Hydra (b) Velella (c) Obelia (d) Physalia (e) None of these
- (v) Pseudocoelomate animals are:
(a) Coelenterates (b) Nematodes (c) Annelids (d) Arthropods (e) None of these
- (vi) Earth worm belongs to:
(a) Phylum platyhelminthes (b) Nematode (c) Mollusca (d) Arthropoda (e) None of these
- (vii) The number of arms in octopus is:
(a) Four (b) Six (c) Eight (d) Ten (e) None of these
- (viii) The excretor organ of cockroach is:
(a) Flame cell (b) Nephridia (c) Coxal gland (d) Green gland (e) None of these
- (ix) The compound eyes are present in:
(a) Cuttle fish (b) Sea urchin (c) Sea mouse (d) Honey bee (e) None of these
- (x) Balanoglossus belongs to:
(a) Hemichordata (b) Cephalochordata (c) Urochordata (d) Craniata (e) None of these
- (xi) The extinct vertebrates are:
(a) Elasmobranchi (b) Placodermi (c) Osteichthyes (d) All of these (e) None of these
- (xii) The type of scales found in shark is:
(a) Placoid scale (b) Ganoid scale (c) Cosmoid scale (d) Cycloid scale (e) None of these
- (xiii) All of the following animals have three chamber heart except:
(a) Uromastix (b) Snake (c) Wall lizard (d) Crocodile (e) None of these
- (xiv) An animal group having radially symmetrical adults but bilaterally larvae are:
(a) Annelids (b) Echinoderm (c) Chordates (d) All of these (e) None of these

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- (xv) Which one of the following is not an extra embryonic membranes?
 (a) Pleura (b) Amnion (c) Chorion (d) Allantois (e) None of these
- (xvi) The egg laying mammals such as Duck billed platypus and spiny anteater are found in:
 (a) Asia (b) North America (c) South America (d) Australia (e) None of these
- (xvii) Renal portal system is absent in:
 (a) Mammals (b) Fish (c) Amphibian (d) Reptiles (e) None of these
- (xviii) Swim bladder is present in:
 (a) Amphibia (b) Giant turtle (c) Sea snake (d) All of these (e) None of these
- (xix) Diencephalons is a part of:
 (a) Circulatory system (b) Excretory system
 (c) Nervous system (d) Respiratory system (e) None of these
- (xx) Microlecithal egg is found in:
 (a) Reptiles (b) Birds (c) Amphibian (d) All of these (e) None of these

PART-II

NOTE:(i) **PART-II** is to be attempted on separate Answer Book.
 (ii) **Attempt ONLY FOUR questions from PART-II, selecting TWO questions from each SECTION. All questions carry EQUAL marks.**
 (iii) **Extra attempt of any question or any part of the attempted question will not be considered.**

SECTION - I

- Q.2.** (a) Describe reproduction in paramecium. **(10)**
 (b) Explain the different kinds of spicules in ponfera. **(10)**
- Q.3.** (a) Discuss polymorphism in coelenterates. **(10)**
 (b) Explain the life cycle of obelia.. **(10)**
- Q.4.** (a) What are platehelminths. **(10)**
 (b) Describe the life cycle of any medically important platehelminths. **(10)**
- Q.5.** Write short notes on: **(5 x 4 = 20)**
 (a) Metamerism (b) Mouth parts of insects.
 (c) Foot in Mollusca (d) Larvae of Echinoderm.

SECTION – II

- Q.6.** (a) Give an account of arterial system of pigeon. **(10)**
 (b) Explain hepatic portal system. **(10)**
- Q.7.** (a) What is Gastrulation? Describe gastrulation in frog. **(10)**
 (b) Write an essay on parental care in Mammals. **(10)**
- Q.8.** Write short notes on the following: **(5 x 4 = 20)**
 (a) Hairs in Mammals (b) Development of bone
 (c) Fish migration (d) Egg types.
