

# FEDERAL PUBLIC SERVICE COMMIS ~~MPETITIVE EXAMINATION FOR ~~MPINT TO POSTS IN BS-17 ~~VERNMENT, 2013

TIME ALLC	<b>WED:</b>	(PART-I MCQs)	<b>30 MINUTES</b>	MAXIMUM MARKS: 20					
THREE HO	URS	(PART-II)	2 HOURS & 30 MINUTES	MAXIMUM MARKS: 80					
NOTE: (i)	NOTE: (i) First attempt PART-I (MCQs) on separate OMR Answer Sheet which shall be taken back								
	after 30	minutes.							
(ii)	Overw	riting/cutting of the	options/answers will not be give	en 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.

1.	Metamerically segmented wo	rms	belong to phylum:						
	(a) Nematoda	<b>(b)</b>	Platyhelminthes	(c)	Annelida	( <b>d</b> )	None of these		
2.	Which of the following is a multiflagellate Protozoa?								
	(a) Ceratium	<b>(b)</b>	Noctiluca	(c)	Leishmania	( <b>d</b> )	None of these		
3.	Spicules are secreted by:								
	(a) Scleroblasts	<b>(b)</b>	Nematoblasts	(c)	Endoblasts	( <b>d</b> )	None of these		
4.	Which of the following is echinoderm?	aj	porous opening through	wh	ich water enters	the	hydrocoel of an		
	(a) Pedicellaria	<b>(b)</b>	Tube feet	(c)	Madreporite	( <b>d</b> )	None of these		
5.	The body cavity of most triploblastic animals formed by splitting the mesoderm into an outer an								
	inner layer is called:								
	(a) Coelentron		Coelom	(c)	Colon	( <b>d</b> )	None of these		
6.	Compound eyes are found in								
_	•		Ecinodermate	(c)	Mollusca	( <b>d</b> )	None of these		
7.	Egg-laying mammals are place								
	(a) Meththeria	· · /	Prototheria	(c)	Theria	( <b>d</b> )	None of these		
8.	Open circulatory system is for				<b>a</b> 1 1				
0	(a) Birds		Earthworms	(c)	Cockroaches	(d)	None of these		
9.	Bivalve molluscs are usually			$\langle \rangle$					
10	(a) Scavangers		Deposit feeder		Filter feeder		None of these		
10.	The pillar or central axis around which the whorls of a gastropod shell are coiled is called:								
11	(a) Columella	~ /	Collembola	(C)	Colloblasts	( <b>a</b> )	None of these		
11.	The ninth vertebra of frog is 1		Sacral	(a)	I luo atrala	<b>(J</b> )	None of these		
12.	(a) Cervical The stage in an ambrue in wh	` '			Urostyle		None of these		
14.	The stage in an embryo in wh (a) Gastrula		Blastula		Morula		None of these		
13.	A fish which migrates down	· /		~ ~	Worula	( <b>u</b> )	None of these		
13.	(a) Anadromous		Catadromous		Dromiacea	<b>(d)</b>	None of these		
14.	Which of the following has for	` '		(U)	Diomacea	( <b>u</b> )	None of these		
14.	(a) Dog fish		Frog	(c)	Pigeon	(d)	All of these		
15.	Facets by which vertebrae art		6		•	( <b>u</b> )			
1	•		Parapophyses		Zygopophyses	( <b>d</b> )	None of these		
	(a) mempopinybeb	()	- arapopiij 505	$(\mathbf{c})$	~,5°P°P''''''''''''''''''''''''''''''''''	(4)			

## **ZOOLOGY, PAPER-I**

- The inner membrane of the two foetal membranes in reptiles, birds and mammals is can 16. (a) Amnion (b) Chorion
- **17.** Amphioxus is an example of: (a) Urochordata (b) Cyclostomata
- **18.** Filarial worm (genus Wuchereria) belong to phylum: (b) Platyhelminthes (a) Nematoda
- **19.** Notochord is formed from primary: (b) Mesoderm (a) Ectoderm
- **20.** Shell fish includes:
  - (a) Shrimp, Crabs and eel fish
    - (c) Lobsters, crabs and shrimps

- (c) Peritoneum
- (c) Hemichordata
- (c) Annelida
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- (c) Endoderm
- (b) Dog fish, crabs and lobsters
- (d) All of these

# **PART-II**

Part-II is to be attempted on the separate Answer Book. NOTE: (i) (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) (b)	Give an account of life cycle of Fasciola hepatica. Describe the various types of larval forms found in crustacea.						
Q.3.	(a)	(a) What is the difference between corallite and coral reef? Give a detailed account of the various forms of coral reefs.						
	<b>(b</b> )							
Q.4.	(a)	(a) Describe the morphology and microscopic structure of the shell of a gastropod mollusc such as Pila.						
	<b>(b)</b>							
Q.5.	Write	e short notes on the following:-	(5 each)	(20)				
	`	<ul> <li>a) Binary fission in Paramecium</li> <li>b) Flame cells</li> <li>c) Leishmaniasis</li> <li>d) Spicules</li> </ul>						
		SECTION-B						
Q.6.	(a) (b)	Describe various types of heart found in the vertebrate. Give an account of flight adaptation of birds.						
Q.7.	(a) (b)							
Q.8.	Write	e short notes on the following:-	(5 each)	(20)				

(a) Biting mechanism of snakes (b) Placenta (c) Fish scales (d) Neuron

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