## **ZOOLOGY, PAPER-I**



## FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BPS-17 UNDER THE FEDERAL GOVERNMENT, 2010

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TIME ALLOWED:	(PART-I) 30 MINUTES	MAXIMUM MARKS:20	CO
TIME ALLOWED:	(PART-II) 2 HOURS & 30 MINUTES	MAXIMUM MARKS:80	3

NOTE: (i) First attempt PART-I (MCQ) on separate Answer Sheet which shall be taken back after 30 minutes.

Overwriting/cutting of the options/answers will not be given credit.

## PART – I (MCQ)

		(COMPULSO	RY)	
<b>Q.1.</b> (i)	Select the best option/an Chano cysts are found in (a) Coelentrate (d) Arthropoda	rswer and fill in the approximately (b) Annelida (e) All of these	copriate box on the Ans	swer Sheet. (20)
(ii)	House fly is a common in (a) 4	nsect having legs. (b) 6	(c) 8	(d) None of these
(iii)	Silver fish is included in: (a) Pisces	(b) Arthropoda	(c) Annelida	(d) None of these
(iv)	Number of vertebrae in r (a) 10	neck of a giraffe are: (b) 5	(c) 7	(d) None of these
(v)	Flame cell is typical of: (a) Annelida (e) None of these	(b) Chordata	(c) Porifera	(d) Platyhelminthes
(vi)	Nervous system originate (a) Epidermis (e) All of these	es from: (b) Mesodermis	(c) Endodermis	(d) None of these
(vii)	Mammals are characteriz (a) Mammary Glands	ted by: (b) Hair	(c) All of these	(d) None of these
(viii)	Nucleus is not present in (a) Fish (e) None of these	RBC of: (b) Snake	(c) Bird	(d) Mammal
(ix)	Scales in fish derive their (a) Epidermis	r origin from: (b) Mesodermis	(c) Endodermis	(d) None of these
(x)	Sound in insect is product (a) Mouth	eed through: (b) Tracheal movements	(c) Wing beat	(d) None of these
(xi)	Sole of foot in man has _ (a) Dorsal	location: (b) Ventral	(c) lateral	(d) None of these
(xii)	Coelome in adult mamm (a) Visceral cavity	als is represented by: (b) Cavity in brain	(c) Both of these	(d) None of these
(xiii)	The Skelton in insects is: (a) Exoskeleton	(b) Endoskeleton	(c) None of these	(d) Both of these

<u>zoo</u>		GY, PAPER-I			(d) None of the (d) None of these	
(xiv	7)	Sea horse is included in:			18	
		(a) Mammals	(b) Fish	(c) Reptiles	(d) None of th	
(xv	`	Circulatory system is ope	en tyne in:			
(AV	,	(a) Annelida	(b) Insecta	(c) Mammals	(d) None of these	
				(*)		
(xv		The body cavity is regard (a) Has ectodermal origi	ded as pseudocoele in Ner	matodes because:	.0	6
			l by Mesodermal epitheliu	ım		3
		(c) Has endodermal orig			•	<b>V</b>
		(d) None of these				
		(e) All of these				
(xv	ii)	True metaneric segmenta	ation is characteristic of:			- I
		(a) Molluses	(b) Annelida	(c) Arthropoda	(d) None of these	
(xv	iii)	Hollow dorsal nervous sy	vstem is present in:			
	,	(a) Amphiexus	(b) Fish	(c) Mammals	(c) None of these	
		(e) All of these				
(xix	()	Contractile vacuole in pr	otozoa is mainly responsi	ble for:		
`		(a) Excretion	(b) Osmoregulation	(c) respiration	(d) None of these	
(xx	)	Scorpion is included in:				
(1111)	,	(a) Insecta	(b) Arachnida	(c) Echinodermata	(d) None of these	
			D . D.T.	***		
			<u>PART – </u>			
NOT	Е:	(ii) Attempt ONLY SECTION-I and (iii) Be precise in you	e attempted on the separate FIVE questions from PA TWO from SECTION-lar answers and draw labell f any question or any p	ART-II, selecting THR II. All questions carry EO led diagrams, wherever re	QUAL marks. equired.	
		considered.	OF CETALLY	~		
0.1	(-)	"A	SECTION -		the etatament (0)	
Q.2.	(a) (b)		ot equal to a cell of multical al level of cellular organizations.			
Q.3.	(a)		tiate between corals and c	oral reefs? How are diffe		
	(b)	formed?	ation with special reference	e to platyhelminthes	(3+7) (6)	
Q.4.	` ′		nentation. Explain with re	1 2	(2+6)	
	(b)		s with reference to insects		(8)	
0.5.	Wr	ite short notes on:			(16)	
<b>V.</b> 0.	(i)	Echinoderm affinity	(ii) Shell in Mollusca	(iii) Importance of No	` /	
	(iv)	Polymorphism – coeler	ntrata			
			SECTION -	<u>II</u>		
Q.6.	(a)	Discuss Amphioxus as	a complete chordate.		(8)	
	(b)		ooth chordate and non-cho	ordate character". Justify.		
Q.7.	(a)	Discuss evolution of he	eart in different chordate g	groups.	(8)	
	(b)	Give a brief account of	f embryonic membranes.		(8)	
Q.8.	(a)		ation. Discuss the phenon			
	(b)	"Birds are said to be gl	orified reptiles". Justify the	he statement.	(8)	
Q.9.	Wr	ite short notes on:			(16)	
		<ul><li>(a) Scales in Fishes</li><li>(c) Feathers in Birds</li></ul>	` /	xoskeleton in mammals Desert adaptations in Rept	(4+4+4+4) iles	

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