2. Explain in defail the 412.0.2 leadings

DA / DSt / BOOM / BBA / HOA

Surject (3rd Semester)

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What is damentally for ("Minor") the various

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Paper Code: ZOO/M3

(Diversity of Chordates)

Office accomplished and the control of the control

Full Marks: 75 Pass Marks: 40%

Time: 3 hours of maintain

(PART : B—DESCRIPTIVE)

(*Marks* : 50)

The figures in the margin indicate full marks for the questions

1. What are cephalochordates? Describe the general characteristics of cephalochordates.

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2+8=10 Het No. E

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Give a detailed account on the retrogressive metamorphosis in urochordates. 10

(Turn Over)

2.	Explain i	n de	etail	the	advanced	features	of	
	vertebrate	es or	ver p	roto	chordates.	A poly		0

Or

Write the general characteristics of Agnatha.

Give suitable examples.

8+2=10

3. What is osmoregulation? Explain the various modes of migration in fishes. 2+8=10

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Classify class Amphibia up to order with suitable examples.

4. Give a detailed account on the biting mechanism in snakes. Add a note on the poison apparatus. 6+4=10

Or

Discuss in detail why Archaeopteryx is considered as a connecting link between reptiles and birds.

5. Explain in detail the adaptive radiation with reference to locomotory appendages in mammals.

Or

Write an account on zoogeographical realms. 10

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5. Wishagun benethelse 2 0,2 4 dw in motth aco.	2. The
el dug avandamental (FYUGP) ac squiatave gut is	initi Jenov
(3rd Semester) ment	(a)
metacoel 'Yaoloozada lo sama lat	(6)
diverticulum (Minor) in schunderm	(a)
Similarity Paper Code: ZOO/M3 lo snovi	(d)
(Diversity of Chordates)	
hich of the subphylum netechord and nerve cord resent the aviroaced A : TRAP) and nerve cord	3. II. w
(a) open circulatory system (b)	$\langle a \rangle$
The figures in the margin indicate full marks for the	questions
Cephalochardat (c)	(0)
(d) None of the above	(d)
Put a Tick (/) mark against the correct answer in brackets provided:	
1. Balanoglossus is included in which subphylum	5.11.1
(a) Urochordata ()	(α)
(b) Hemichordata (()) Ascidian larva (()	(d)
(c) Cephalochordata () () () ()	(0)
(d) None of the above kelet (node) and to smooth	<i>(d)</i>
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kno	e condition in which the coelom and mesoc tially develops as a pocket of the primitive go own as	lerm at is
(a)	enterocoelous (3rd Somester)	
(b)		
(c)	diverticulum (noniM)	
(d)	None of the above : abo (ray)	
	(Diversity of Chordates)	
	which of the subphylum notochord and nerve opresent throughout the life?	cord
(a)	Hemichordata (2)	
(d) tions	ires in the margin in (liver), full natabrondorU g	The rigu
(c)	Cephalochordata ()	
(d)	Both (b) and (c) (mM)	
orfi	ick (/) mark against the correct ansyget in	Part a T
4. Wh	ich of the following is considered a hypothet	ical
(a)	anoglossus is included in which with about a consolor and a consol	
(b)	Dipleurula () statuoriociU Ascidian larva ()	(a)
(c)	Tornaria larva () stebrodomoli	
(d)	Cephalochordata	
	None of the (wow):	(\vec{o})
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5.		ch of the following evidences is not supporting echinoderm theory of chordate origin?
	(a)	Similarity in embryonic development ()
	(b)	Presence of pharyngeal slits ()
		Radial symmetry in adult echinoderm () evode ent to IIA (b)
7 3		Similarities in larval form () Steichthyes are primarily distinguished by
	The	advanced features of vertebrates over cochordata is of presence of
	(a) (b)	open circulatory system () (b) presence of cranium ()
	(c)	absence of vertebral column ()
	(d)	None of the above () wai a lo some (d)
		lostomes are primarily characterized by
	(a)	presence of jaws ratio () () sunA (b)
	(b)	absence of jaws ration (()) slaborU (d)
	(c)	presence of paired fins) () shaneups (3)
	(d)	presence of bony skeleton () bogA (b)

e. Catadromous migration is exhibited by	inci
(a) Salmon ()	
Similarity in embryonic development ()	(a)
Presence of pharyngeal slits (d)	
Rudial symmetry in adult (a) echinoderm (b)	
(d) All of the above ()	
Similarities in larval formwood que quantities in larval formwood que	(b) .
9 Octobala 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
9. Osteichthyes are primarily distinguished by	
(a) presence of a cartilaging	
endoskeleton ()	
open circulatory system attributional (a)	(a)
(b) presence of a bony endoskeleton ()	
presence of cranium ()	(9)
(c) lack of paired fins ()	(0)
(d) absence of a jaw ()	N.
None of the above ()	(b)
10. Bufo frog is included in the order	
Slostomes arechination with the street with the street	
presence of jaws (()	(a)
(b) Urodela () wasi to extracts	(d)
(c) Squamatannik () in being le eoneseng	(0)
(d) Apoda) (iii)iiiislasti vand in geneenin	
Bs/ZOO/M3/199	3:17:00

11.	Whice syste	ch of the following is true about the circulatory em of reptiles?			
Writ	(a)	They have four-chambered heart ()			
	(b)	They have three-chambered heart (M)			
1.	(c)	They have an open circulatory system (()) metrodonta			
	(d)	Both (b) and (c) ()			
		(c) Triconodonta (;)			
12.	The	poison apparatus in snakes is primarily apposed of which of the following?			
	(a)	Tail stinger and poison gland ()			
	(b)	Venomous skin and fangs ()			
	(c)	() sgnsh bns bnslg nosioq			
	(d)	None of the above ()			
13.	sho	ich type of migration involves birds travelling ort distances to more favourable conditions within same region?			
	(a)	Longitudinal migration ()			
	(b)	Latitudinal migration (and Greenland (b)			
	(c)	Altitudinal migration ()			
	(d)	Diagonal migration And Alaosim lanogaid			

14.	The	duck-billed platypus belongs to which order of male?
	(a)	(a) They have four-chambered heart months?)
	(a)	(b) They have three-chamblered hear among
	(b)	(c) They have an (open circulate system (()) stronger and to the
	(c)	(d) Both (b) and (c) (Triconodonta ()
9,	Viin	12. The potton apparatus in shakes is prima
	(d)	None of the above of the plant to besognoo
		(a) Tail stinger and poison gland estal (lepit)
	Mil	(b) Venomous, skip and dangs of and season
15.	regi	palaearctic realm covers which of the following ons? (d) None of the above (1) (a) (b)
	(a)	13. Which type of migra(ion) involvacional house short distances to more favourable conditions wit
	(b)	the same region? () quantities and Europe () () () () () () () () () (
	(c)	North America and Greenland (d)
	(c)	(c) Akitudinal migration ()() standarps.
	(d)	South-East Asia and Australia (1986) (b)
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2. Dipleurula concept II—nortael Established E

(*Marks* : 10)

Write short notes on any five of the following: $2\times5=10$

1. Urochordata

2.	Dipleurula	concept	SECTION
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Write short notes on any five of the following: 2 45 = 10

1. Urochordata

- (h) Symmetradoma
- (c) Triconodont:

- tely form of the affice.
- 25. The paleometic must regions?
 - (a) South date of
 - 19 Asim Williams
 - of Additional Volumes and Additional
 - (1997) Constitution of the state of the stat

(91)

3. Osteichthyes

4. Flight adaptation in bird

4. Flight adaptation in bird

3. Osteichthyes

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5. Sphenodon

5. Poogeographical realm

6. Zoogeographical realm

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