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8241

M.Sc. IIIrd SEMESTER EXAMINATION, 2019 ZOOLOGY

Paper - I VERTEBRATES

Time: Three Hours Maximum Marks: 80

PART – A [Marks: 20]

Answer all questions (50 words each).

All questions carry equal marks.

PART – B [Marks: 40]

Answer five questions (250 words each).

Selecting one from each unit. All questions carry equal marks.

PART – C [Marks: 20]

Answer any two questions (300 words each).

All questions carry equal marks.

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PART – A

- Q.1 (i) Write two important characters of Placoderms?
 - (ii) Give two examples of Extinct Vertebrates.
 - (iii) Why do tadpoles growing in iodine deficient water, fail to grow into frogs?
 - (iv) What evolved from amphibians?
 - (v) How and when did the dinosaurs go extinct?
 - (vi) How did tetrapods evolve?
 - (vii) Why birds have different type of beaks?
 - (viii) Give name of largest and smallest flightless bird.
 - (ix) What is adaptive radiation? Give example.
 - (x) Why is the Cenozoic Era called the age of Mammals?

PART - B

UNIT -I

- Q.2 What is a "monophyletic group". Draw the vertebrate phylogeny.
- Q.3 What are the pharyngeal jaws? What is their function? What is unique about the pharyngeal jaws of the Moray Eel?

UNIT -II

- Q.4 Differentiate between: -
 - (a) Neoteny and Paedogenesis
 - (b) Anadromous and Catadromous migration
- Q.5 Write short note on origin of Amphibia.

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<u>UNIT –III</u>

Q.6	Give the classification of Archaeopteryx and its characteristics.	
Q.7	Write short notes on:	
	(a)	Living reptiles
	(b)	Dinosaurs
<u>UNIT –IV</u>		
Q.8	Writ	e short notes on –
	(a)	Palate in birds
	(b)	Theories of origin of flight
Q.9	Why	do birds like the Ostrich and the Emu have wings though they cannot fly?
		<u>UNIT –V</u>
Q.10 What were the major events in Cenozoic Era? Explain.		
Q.11 Describe phylogenetic Evolution of Placenta.		
PART – C		
Q.12 Write an essay on Agnatha group.		
Q.13 Write in brief the economic importance of Amphibians.		
Q.14 Discuss the Evolution of terrestrial animals.		
Q.15 Describe flight adaptation in birds.		
Q.16 Write a note on origin and evolution of mammals.		

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