SELL SON DE SURVEY SOND 3 (Sem-2) ZOO M 1

2018

**ZOOLOGY** 

(Major)

Paper: 2·1

( Animal Diversity—II )

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the questions

- Answer the following as directed:  $1 \times 7 = 7$ 
  - Name an amphibian which carries its (a) youngs on its back.
  - The Fall of a Sparrow-Who wrote this (b) book?
  - (c) In singing birds, sound is produced by (i) air sac, (ii) syrinx, (iii) larynx. (Choose the correct answer )
  - (d) Fangs of poisonous snake are modified maxillary teeth. Is it true?
  - Hemichordates are also called (e) (Fill in the blank)

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(Turn Over)

	(f)	New world monkeys have prehensile tail but prehensile tail is absent in old world monkeys.
		( Write True or False )
	<i>(g)</i>	Electric organs are modified muscles.
		( Write Yes or No )
2.	Ans	wer the following questions: 2×4=8
	(a)	All vertebrates are chordates but all chordates are not vertebrates. Why? 2
	(b)	What are cartilaginous fishes? Give one example. 1+1=2
	(c)	Define autotomy. What is its significance? 1+1=2
	(d)	Write a note on weberian ossicles. 2
3.	Ans	wer any <i>three</i> of the following questions: 5×3=15
	(a)	What is missing link? Seymouria is a connecting link between amphibians and reptiles. Discuss it. 1+4=5
	(b)	"Birds are glorified reptiles". Justify it. 5
	(c)	Why are birds and mammals called homeothermal animals?
	(d)	Distinguish between aestivation and hibernation. 2½+2½=5
	(e)	Discuss the structure and evolutionary significance of ammocoete larva. 2½+2½=5
		(Continued)

- 4. Answer any three questions of the following: 10×3=30
  - Why is Balanoglossus considered to be very close to echinoderms? Write the chordate affinities of Balanoglossus.

5+5=10

- (b) What is retrogressive metamorphosis? How does it differ from progressive metamorphosis? Discuss the phenomena by giving an account. 1+3+6=10
- What are the different types of swim bladder? Describe the modifications of swim bladder in different fishes. 3+7=10
- (d) How can you distinguish a poisonous snake from a non-poisonous one? Discuss abut poison apparatus and biting mechanism of a poisonous snake. 2+2+6=10

What is an air sac? How many air sacs are found in birds? Mention the benefits obtained by a bird from the air sacs. 2+5+3=10

What is dentition? Discuss the dentition (f) patterns with mammalian reference. Mention its significance. 2+6+2=10

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