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SKBU/P.G./1st Sem/Zool-102(CBCS)/16

## P.G. 1st Semester - 2016

## **ZOOLOGY**

(CBCS)

(Chordates: Structure and Functions)

Paper: MZOOCCT102

Full Marks: 40

Time: 2 Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

- 1. Answer any eight of the following:  $1 \times 8 = 8$ 
  - a) What is pillar cell?
  - b) What is ligamentum arteriosum?
  - c) What is foramen ovale?
  - d) What is ghemus?
  - e) What is endostyle?
  - f) What is Wolffian duct?
  - g) Define metakinesis.
  - h) What are the components of pallium?
  - i) What do you mean by allometric growth?

- j) State the fate of Meckel's cartilage in mammals.
- k) Which one of the following structure is primary nucleus for cranial nerve VII-XII in mammals?
  - (i) Cerebellum (ii) Cerebrum (iii) Medulla oblongata (iv) Pons.
- What is the fate of palatoquadrate in mammals?
- 2. Answer any six of the following:  $2 \times 6 = 12$ 
  - a) Discuss the composite theory of jaw origin.
  - b) What is associated receptor? Give example of such receptors.
  - c) Comment on the process of encephalization in primate.
  - d) Comment on te evolutionary significance of endostylar cells associated with iodine binding in Branchiostoma sp.
  - e) Write short note on Notochord.
  - f) What is metanephric kidney?
  - g) Differentiate Paleopulmonic lung and neopulmonic lung.

[Turn Over]

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?	What is secondary gill lamella	h)
5×4=20	swer any four of the following:	3. An
ntio? Mention 2+3	What is Ventilation-Perfusion r its significance.	a)
•	Discuss the phenomenon o foramen ovale during the birth mammal.	b)
· ·	Discuss the four bar kinetics reptilian jaw in relation to fee streptostyly?	c)
_	Schematically describe modification of telencephalor lamprey like ancestor.	d)
n bird with 3+2	Discuss the jaw kinetics i reference to rhynokinesis.	e)
	What are general sensory organ mechanism of perception of these sense organs.	f)
	What are the different types of I in human tongue? Briefly	g)

molecular mechanism of olfactory

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perception.

3+2