Third Semester M. Sc. - II Examination

ZOOLOGY

Paper - XII Special Paper - Fisheries - II Fish Physiology

P. Pages: 3

Time: Three Hours)

[Max. Marks: 80

- **Note:** (1) All questions are compulsory.
 - (2) All questions carry equal marks.
 - (3) Draw well labelled diagram wherever necessary.
- 1. Give an account of :—
 - (a) Keratinized Epidermis.
 - (b) Significance of chromatophores.
 - (c) General organisation of Dermis.
 - (d) Water flow across the gills and respiration.

OR

- (e) Mucogenic epidermis.
- (f) Transport of respiratory gases.

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	(g) Pump Musculative and skeleton.	w.sgbauonline.com	Give an account of various receptors in fishes.	
	(h) Physiological adaptations in air breathing fishes.		OR	
		·	Describe Acoustico-lateralis system in Fish.	
2.	Describe alimentary canal in relation to food and feeding habits of fishes.		16	
	OR	5.	Describe the followings:—	
	Give an account on structure and function of swim		(q) Glomerular Kidney.	
	bladder. 16		(r) Excretion of nitrogenous wastes.	
			(s) Urea cycle.	
3.	Explain the followings:—		(t) Anadromous Teleosts.	
	(i) Structure of Fish heart.		OR	
	(j) Regulation of cardiac activity.		(u) Stenohaline Teleosts.	
	(k) Fish haemoglobin.			
	(l) Haemodynamics.		•	
	OR	•	(w) Aglomerular Kidney.	
	(m) Cardiac output.		(x) Euryhaline teleosts. 16	
	(n) Aortic arches in Dipnoi.	2		
	(o) Blood pressure.			
	(p) Circulation time. 16			
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