



DCV-003-0011013

Seat No. _____

B. Sc. (Sem. I) (CBCS) (WEF-2016) Examination

August - 2022

Z-01 : Zoology

(Non Chordate : Systematic, Forms and functions, cell biology, Histology, Ecology, Fisheries biology & Wild life biology)

(Old Course)

Faculty Code : 003

Subject Code : 0011013

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instructions : (1) Write answers of any five questions of the following.

(2) Draw labeled diagram if necessary.

- 1 (A) Answer in short : 4
- (1) Dentalium belongs to which class?
 - (2) Peripetetus belongs to which phylum?
 - (3) Give any two characters of phylum Protozoa.
 - (4) Give the scientific name of round worm.
- (B) Describe in short : 2
- (1) Any five Characters of phylum Coelenterata.
- (C) Describe : 3
- (1) Classify with reasons the animal leech.
- (D) Describe : 5
- (1) Draw entire classification chart with appropriate phylum only.
- 2 (A) Answer in short : 4
- (1) Flame cells are as excretory organs are found in which phylum?
 - (2) Locomotory organs in Protozoa are _____.
 - (3) Starfish belongs to which phylum?
 - (4) Octopus belongs to which class?

	(B) Describe in short :	2
	(1) Classify the animal Hook worm. Reasons are not necessary.	
	(C) Write answer :	3
	(1) Classify the animal Scorpion with reasons.	
	(D) Describe :	5
	(1) Characters of Phylum Porifera and Arthropoda	
3	(A) Answer in short :	4
	(1) Give the scientific name of Tape worm.	
	(2) Disease caused by Taenia solium is called?	
	(3) The number of gravid proglotids in Taenia are nearly?	
	(4) In which animal cysticercus larva is formed during development?	
	(B) Describe :	2
	(1) Scolex of Taenia solium.	
	(C) Describe :	3
	(1) Short note on Bladder worm.	
	(D) Describe :	5
	(1) Only labelled diagram of reproductive system of Taenia solium.	
4	(A) Answer in short :	4
	(1) Spermatheca pores are located in the inter segmental groove of?	
	(2) Give the length of animal Earthworm.	
	(3) Give the number of segments where clitellum is situated in Earthworm.	
	(4) Give the scientific name of Earthworm.	
	(B) Describe :	2
	(1) Write short note on Setae of Earthworm	
	(C) Describe :	3
	(1) Short note on Nervous system of Earthworm.	
	(D) Describe :	5
	(1) Only labeled diagram of Digestive system of Earthworm.	

- 5 (A) Answer in short : 4
- (1) Function of nucleus.
 - (2) Give the thickness of plasma membrane.
 - (3) Name of scientist who has suggested fluid mosaic model of plasma membrane.
 - (4) Give any two examples with more than one nucleus present.
- (B) Describe : 2
- (1) Function of Plasma membrane
- (C) Describe : 3
- (1) Endoplasmic reticulum
- (D) Describe : 5
- (1) Mitochondria
- 6 (A) Answer in short : 4
- (1) Function of peptic cells of stomach.
 - (2) Function of Oxyntic cells of stomach.
 - (3) Function of mucous cells of stomach.
 - (4) The name outermost layer of Intestine is _____.
- (B) Describe : 2
- (1) Function of Pepsin and Lipase enzyme.
- (C) Describe : 3
- (1) Histological structure and function of mammalian Liver.
- (D) Describe : 5
- (1) Histological structure and function of mammalian Pancreas.
- 7 (A) Answer in short : 4
- (1) Give the name of mosquito who lays 200-400 eggs in dirty water.
 - (2) Write in short about Culex larva.
 - (3) Give the name of mosquito who lays 40-100 eggs in fresh clean water.
 - (4) Write in short about Anopheles larva.
- (B) Describe : 2
- (1) Explain any one adaptation in animal Cricket (Gryllotalpa).
- (C) Describe : 3
- (1) Marine water ecosystem

	(D) Describe :	5
	(1) Explain Desert adaptation	
8	(A) Answer in short :	4
	(1) Length of fishing Gill net.	
	(2) Length of Lodhiyo fishing boat.	
	(3) Length of Trawler fishing boat.	
	(4) Only diagram of Placoid scale.	
	(B) Describe :	2
	(1) Short note on Hook and Line fishing net.	
	(C) Describe :	3
	(1) Short note on Cycloid scales.	
	(D) Describe :	5
	(1) Difference between chondrichthyes (Cartilaginous fish) and Osteichthyes (Bony fish).	
9	(A) Answer in short :	4
	(1) Give the area of Barda wild life sanctuary.	
	(2) Give the area of Khijadia bird sanctuary.	
	(3) Fauna of Barda sanctuary.	
	(4) Best time to visit Khijadiya Bird sanctuary.	
	(B) Describe :	2
	(1) Short note on Ctenoid scales.	
	(C) Describe :	3
	(1) External characters of fish morphology.	
	(D) Describe :	5
	(1) Explain True flight (Active flight adaptation).	
10	(A) Answer in short :	4
	(1) Give the area of Kutch desert wild life sanctuary.	
	(2) Best time to visit marine national park.	
	(3) Fauna of marine national park.	
	(4) Give the area of Nalsarovar Bird sanctuary.	
	(B) Describe :	2
	(1) Give the area of Marine national park.	
	(C) Describe :	3
	(1) Write Difference between national park and sanctuary.	
	(D) Describe :	5
	(1) Explain Gir National Park	