7. <u>Diversity in Living Organisms</u>

Q 1 Name the branch of the biology that deals with the classif	ication. Mark (1)
Q 2 Who was the first to propose the two-kingdom system of	classification? Mark (1)
Q 3 Who proposed three-kingdom classification?	Mark (1)
Q 4 What is meant by triploblastic?	Mark (1)
Q 5 What is haemocoel ?	Mark (1)
Q 6 Name the person who has given the five-kingdom classifi	cation. Mark (1)
Q 7 Which is the largest phylum of animal kingdom?	Mark (1)
Q 8 What is the function of canal system in sponges?	Mark (1)
Q 9 What are Gymnosperms?	Mark (1)
Q 10 What is the purpose of classification?	Marks (2)
Q 11 What do you mean by evolution?	Marks (2)
Q 12 What are the bases due to which plants and animals are of	classified as different categories? Marks (2)
Q 13 What are the four main characteristics of chordates?	Marks (2)
Q 14 Draw the hierarchy of the classification?	Marks (2)
Q 15 Give the names of different groups of Plant Kingdom.	Marks (2)

Q 16 Will advanced organisms be the same as complex	· ·
	Marks (2)
Q 17 Give one example each of Hemichordata, Urochor	
	Marks (2)
Q 18 Pick the odd one out and justify your choice by gi	=
i) Coelenterates, Echinoderms, Vertebrates, Molluscsii) Chicken, Bat, Ostrich, Penguin	1 mark 1 mark
ii) Chicken, Bat, Ostren, Fenguin	Marks (2)
Q 19 Pick the odd one out and justify your choice by gi	ving reasons
i) Riccia, Marsilea, Marchantia, Funaria 1 mark	ving reasons.
ii) Crocodile, Salamander, Sparow, Bat 1 mark	
	Marks (2)
Q 20 To which major group do the following belong?	
i) Bat	
ii) Cycas iii) Plasmodium	
iv) Mosquito	
,,	
	Marks (2)
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Q 21 Give two points of difference between Chondricht	Marks (2)
Q 22 Differentiate between Poriferans and Coelentrates	Marks (3)
	Marks (J)
Q 23 Give two exampes of Bryophytes and Pteridophyt	es.
	Marks (3)
O 24 Define adventors of using acientific name instead	of common name?
Q 24 Define advantage of using scientific name instead	Marks (3)
0.25 D. C	
Q 25 Define the main characteristics of Vertebrates.	Marks (3)
	Marks (3)
Q 26 Bat can fly still it is placed in mammals. Why?	Marka (2)
	Marks (3)
Q 27 Why thallophytes, bryophytes and pteridophytes a	
	Marks (3)
Q 28 Show the diagrammatic representation of five-king	gdom classification.
	Marks (3)

Q 29 Draw a flowchart to depict classification of Kingdom Plantae.

Marks (3)

Q 30 a) Identify four features possessed by all Chordates.

b) In which class would you place any organism which has:

- i. a scaly exoskeleton and a bony endoskeleton.
- ii. a scaly exoskeleton and lay eggs outside water. ½+½ marks

Marks (3)

- Q 31 Give one point of difference between:
- i) Bilateral and radial symmetry
- ii) Notochord and nerve cord

Marks (3)

- Q 32 (a) Name the locomotary organs of echinoderms.
- (b) Distinguish between-
- 1. Tapeworm and earthworm
- 2. Mite and termite

Marks (3)

- Q 33 Point out differences between the following:
- (a) Bony and cartilaginous fishes.
- (b) Bilateral and radial symmetry.
- (c) Notochord and nerve chord.

Marks (5)

Q 34 Give a brief account of angiosperms.

Marks (5)

- Q 35 What are the bases by which Vertebrata are divided into sub-groups?
 - Marks (5)
- Q 36 Identify the below given organism and write four major characteristics of its phylum.



Marks (5)

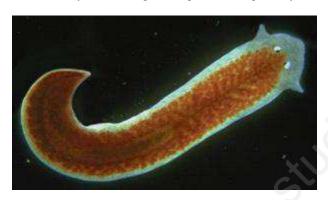
1/2+1/2+1/2 marks

Q 37 Identify the below given organism and give four major characteristics of its phylum:



Marks (5)

Q 38 Identify the below given organism and give any four major characteristics of its phylum:



Marks (5)

Q 39 Identify the below given organism and give four major characteristics of its phylum:



Marks (5)

Q 40 Identify the below given organism, and give four major characteristics of its phylum:



Marks (5)

Q 41 Identify the below given organism and give four major characteristics of its phylum:



Marks (5)

Most Important Questions

- Q 1 Name the character included by Aristotle for biological classification?
- Q 2 Name one edible fungus?
- Q 3 Write a short note on distribution of bacteria.
- Q 4 What are mycoplasma?
- Q 5 What is alternation of generation?
- Q 6 Who proposed five-kingdom classification? What are the names of kingdoms?

Q 7 What are the criteria used by Whittekar for five kingdom classification?
Q 8 Draw the different shapes of bacteria.
Q 9 What are lichens?
Q 10 Write the advantages and disadvantage of binomial system of classification.
Q 11 Name the amphibians of the plant kingdom?
Q 12 Write any four common features of algae.
Q 13 What is the meaning of the word 'Cryptogamae'.
Q 14 How are angiosperms different from gymnosperms, give two main points.
Q 15 What are the two classes of angiosperms? What is the basis of division?
Q 16 Name the organisms responsible for the fixation of carbon dioxide in water bodies?
Q 17 How are cones formed in gymnosperms?
Q 18 Name the group of the following organisms: (a) Sponges (b) flatworms
Q 19 Write two features of group arthropoda. Give an example of an arthropod.
Q 20 What are the differences between animals belonging to the Aves group and those in the Mammalia?
Q 21 Distinguish between open type and closed type of circulatory system.
Q 22 What is notochord? How are animals divided on the basis of notochord?
Q 23 Write any two important features found in platyhelminthes.
Q 24 Differentiate the two body forms exhibited by coelentrates .

- Q 25 Describe the body structure of sponges.
- Q 26 Describe the 4 characteristic features of the largest phylum of kingdom Animalia.
- Q 27 Describe the class Mammalia.
- Q 28 Define bilateral symmetry?
- Q 29 Name the second largest animal phylum.
- Q 30 Which phylum shows the presence of spongin fibres in its organisms?
- Q 31 Describe coelom, ceolomate, pseudocoelomate and acopelomate.
- Q 32 Identify the phylum which shows the presence of notochord, dorsal nerve chord and gill-slits?
- Q 33 Which phylum shows the presence of mucus glands in the skin and three chambered heart?
- Q 34 Which reptile has four-chambered heart?