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1ST YEAR REVISION & TEST SESSION

NAME:			ROLL NO:		TIME:	50: MIN
SUB:	Biology	Date:			CLASS:	1st Year
SYLLABUS	Chp. 1 (Biodiversity and Classification)		T. MARKS	30	OBT. M	

Q. 1 Choose the Correct Answer. Cutting, Erasing, Double Selection is Strictly Prohibited. (1x6=6)

1. **What is a key difference between the domains Bacteria and Archaea:**
   (A) Bacteria have membrane-bound organelles, While Archaea do not
   (B) Bacteria cell walls have peptidoglycan, while Archaeal cell walls do not have it
   (C) Archaea are only found in extreme environments, while Bacteria are not
   (D) Bacteria are all unicellular, while Archaea include multi-cellular organisms
2. **Which domain of life is characterized by organisms that often inhabit extreme environment have cell:**
   (A) Bacteria (B) Archaea (C) Eukarya (D) Protista
3. **In which kingdom are organisms predominantly multi-cellular, autotrophic, and have cell walls made of cellulose:**
   (A) Animalia (B) Fungi (C) Plantae (D) Protoctista
4. **Which virus group includes viruses such as Coronaviruses and influenza viruses:**
   (A) Double-stranded DNA viruses (B) Single-stranded DNA viruses
   (C) Double-stranded RNA viruses (D) Single-stranded RNA viruses
5. **Which method is best suited for assessing the distribution of species across a gradient of environmental conditions within a single geographical area:**
   (A) Quadrat Sampling (B) Point Counts
   (C) Transect Sampling (D) Remote Sensing
6. **What type of speciation occurs when populations geographically separated barrier:**
   (A) Sympatric Speciation (B) Parapatric speciation
   (C) Peripatric Speciation (D) Allopatric Speciation

PART-I

Q. 2 Write Short Answers of the Following Questions (2x8=16)

i. Describe one key feature that differentiates Archaea from Bacteria.
ii. Which kingdom is characterized by organisms with chitin in their cell walls and that are mostly decomposers?
iii. What is the role of genetic drift in the process of speciation?
iv. Which level of biodiversity assessment involves evaluating the variety of ecosystem in a region?
v. How are viruses classified based on their nucleic acid content and replication method?
vi. What are the three domains of life and how do they differ in terms of cellular structure?
vii. What are the key features of organisms in kingdom Protista?
viii. What is the difference between an ecosystem and a niche?

PART-II

Write Answers of the Following Questions in Detail.

Q. 3 (a) Describe the general characteristics of phylum Chordata. 4
(b) How does biodiversity help maintain balance in an ecosystem? 4

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Answer Key							
1	B	**2**	B	**3**	C	**4**	D
5	C	**6**	D				