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1st Year Biology Solved Exercise MCQs

NAME:			ROLL NO:		TIME:	10: MIN
SUB:	Biology	Date:			CLASS:	1st Year
SYLLABUS	Chp. 1 (Biodiversity and Classification)		T. MARKS	10	OBT. M	

Q. 1 Choose the Correct Answer. Cutting, Erasing, Double Selection is Strictly Prohibited. (1x10=10)

1. **Which domain of life is characterized by organisms that often inhibit extreme environments and have cell membranes with ether-linked lipids:**
   (A) Bacteria (B) Archaea (C) Eukarya (D) Protista
2. **What is key difference between the domain Bacteria and Archaea?**
   (A) Bacteria have membrane-bound organelle, while Archaea do not
   (B) (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
3. **Which of the following kingdoms includes organisms that are mostly unicellular, eukaryotic, and can be autotrophic of heterotrophic:**
   (A) Fungi (B) Animalia (C) Plantae (D) Protoctista
4. **In which kingdom are organisms predominantly multi-cellular, autotrophic, and have cell walls made of cellulose:**
   (A) Animalia (B) Fungi (C) Plantae (D) Protoctista
5. **Which of the following criteria is commonly used to classify viruses:**
   (A) Their ability to cause specific diseases (B) The type of nucleic acid they contain
   (C) The colour of the virus particles (D) Their mode of transmission
6. **Which virus group includes viruses such as Coronaviruses and influenza viruses:**
   (A) (A) Double-stranded DNA viruses (B) Single-stranded DNA viruses
   (C) Double-stranded RNA viruses (D) Single-stranded RNA viruses
7. **At which level of biodiversity assessment do we evaluate the variety of different species within a particular habitat or ecosystem:**
   (A) Genetic diversity (B) Ecosystem
   (C) Species diversity (D) Functional diversity
8. **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
9. **Which of the following statement is true regarding the concept of a species:**
   (A) A species is always defined by its physical characteristics alone
   (B) Different species can interbreed and produce fertile offspring
   (C) Membranes of the same species are reproductively isolated membrane of other species
   (D) The concept of a species can be defined solely based genetic similarly
10. **What type of speciation occurs when populations geographically separated barrier?**
    (A) Sympatric Speciation (B) Parapatric speciation
    (C) Peripatric Speciation (D) Allopatric Speciation

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Answer Key							
1	B	**2**	B	**3**	D	**4**	C
5	B	**6**	D	**7**	C	**8**	C
9	C	**10**	C				