

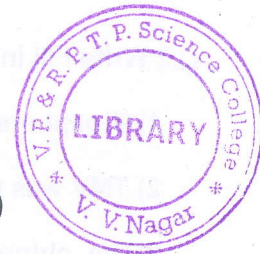
SEAT No. \_\_\_\_\_



No. of Printed Pages : 4

[65]  
E+G

SARDAR PATEL UNIVERSITY  
B.Sc. 2<sup>nd</sup> (CBCS) EXAMINATION 2022  
Wednesday DATE 27/04/2022  
TIME 12:00 PM - 2:00 PM  
SUBJECT / COURSE BIOLOGY(USO2CBIO-51)  
BIODIVERSITY



Marks: 70

Draw neat and labeled diagram wherever necessary

Q.1 MULTIPLE CHOICE QUESTION

(10)

- How many Biogeographical Zones are there in India ?  
(a) 2 (b) 4 (c) 6 (d) 10
- Endangered species are recorded in \_\_\_\_\_.  
(a) Red data book (b) Radar book (c) Red book (d) none of these
- Bacteria cell wall is made up of \_\_\_\_\_.  
(a) Lignin (b) Pectose (c) Chitin (d) Peptidoglycan
- Virus are \_\_\_\_\_ microorganism.  
(a) Multicellular (b) Acellular (c) Unicellular (d) None of these
- Bacteriophage consist of \_\_\_\_\_ as a genetic material.  
(a) RNA (b) DNA  
(c) Chromosome (d) Both DNA and RNA
- The fungus frequently growing on bread is  
(a) Agaricus (b) Rhizopus (c) Yeast (d) Penicillium
- Cycas is an example of  
(a) Mesophyte (b) Hydrophyte (c) Xerophyte (d) Halophyte
- Venter is the part of  
(a) Antheridium (b) Sporogonium (c) Archegonium (d) Sporangium
- Elephantiasis disease is caused by \_\_\_\_\_.  
(a) Plasmodium (b) Filarial worm (c) Tape-Worm (d) *E. histolytica*
- Anadromous fishes migrate from  
(a) Fresh to fresh water (b) Fresh to marine water  
(c) Marine to fresh water (d) Marine to marine water

(C.P.T. O.)

Q.2 Write Fill in the blanks and True or False

(08)

- 1) Biosphere Reserves are \_\_\_\_ conservation. (In-situ / Ex-situ)
- 2) TMV was first isolated in crystalline form by. (Mullar / Stanley)
- 3) The chloroplast present in *Volvox* is \_\_\_\_\_ shaped. (Cup / Ribbon)
- 4) Mermaid's purse found in \_\_\_\_\_. (Rohu / Sharks)
- 5) India launched project Tiger in 1981 True/False
- 6) Ribosomes in bacteria are 80s type. True/False
- 7) Corolloid roots are present in *Cycas*. True/False
- 8) Rabbit is warm blooded animal. True/False

Q.3 Answer the following (any ten)

(10x2= 20)

1. What is Biodiversity?
2. Give full form of GPS and GIS.
3. Define Phytogeography.
4. What are viroids?
5. Write any four characteristics of Cyanobacteria.
6. Sketch and label Bacteriophage
7. What is *Volvox coenobium*.
8. Sketch and label fern sporangium.
9. What is Fragmentation?
10. Write general characters of Protozoa.
11. Write about causes of fish migration.
12. Write any four type of birds migration.



Q. 4 Long Answer (Attempt any four)

(8x4=32)

1. Describe National Parks.
2. Describe various major threats to biodiversity.
3. Explain Ultrastructure of Bacterial cell.
4. Explain structure of Virus.
5. Describe external and internal structure of *Riccia* thallus.
6. Explain internal structure of *Cycas* leaflet with suitable diagram.
7. Describe metamorphosis in insects.
8. Write about any ten flight adaptations in birds.