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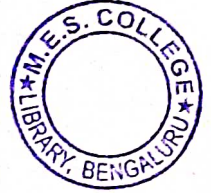
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I Semester B.Sc. Degree Examination, March/April - 2024

**ZOOLOGY**

**Cytology Genetics and Infectious Diseases**  
**(NEP Scheme 2021-22 and Onwards F+R)**

**Paper : I****Time : 2½ Hours****Maximum Marks : 60****Instructions to Candidates:**

1. Draw neat labelled diagrams wherever necessary.
2. Answer should be completely in English.

**PART - A****I. Answer the following.****(5×1=5)**

1. Define phagocytosis.
2. Name a nitrogenous base present only in RNA.
3. Define the term allele.
4. Write the genotypic ratio of mono hybrid cross.
5. Name the disease caused by wuchereria.

**PART - B****II. Answer any Five of the following.****(5×3=15)**

1. Mention the cytoskeletal elements of cell.
2. What are cell junctions? Mention its types.
3. Define :
  - a. Passive Transport.
  - b. Active Transport.
  - c. Bulk Transport.

**[P.T.O.]**



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4. Mention different types of RNA.
5. Explain incomplete dominance with suitable example.
6. Give the genotype of human Blood Groups.
7. Give the pedigree symbols for the following :
  - a. Consanguineous marriage.
  - b. Carrier female.
  - c. Affected male.

#### PART - C

III. Answer any Four of the following.

(4×5=20)

1. Explain the structure of ribosome.
2. Describe the structure of eukaryotic nucleus.
3. Explain the different types of cell - cell interactions.
4. Explain monohybrid cross with a suitable example.
5. Give the Karyotype and diagnostic features of Down's syndrome.
6. Name the causative organism, disease caused, mode of transmission and control measures of trypanosoma.

#### PART - D

IV. Answer any Two of the following.

(2×10=20)

1. Give an account on :
    - a. Chemical composition of plasma membrane.
    - b. Structure of endoplasmic reticulum.
  2. Explain Mitosis with suitable diagrams.
  3. Explain the chromosomal basis of sex determination in animals. Give an example each.
  4. Describe life cycle of Giardia.
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