

1/MDC-115 Syllabus-2023

2 0 2 5

(Nov-Dec)

FYUP : 1st Semester Examination

MULTIDISCIPLINARY COURSE

(Introductory Life Science)

MDC-115

Marks : 56

Time : 2½ hours

*The figures in the margin indicate full marks
for the questions*

Answer Question No. **1** and *any four* from the rest

1. Write on/Answer the following (any *four*) :

3×4=12

- (a) Lipids
- (b) Write the general features of kingdom Monera.
- (c) Write a note on nucleic acid. Name one nucleic acid.

(2)

- (d) Evolution
- (e) Differentiate between renewable and non-renewable bioresources with examples.
- (f) Discuss the factors that threaten wildlife.
2. (a) What are the general features of kingdom Plantae and kingdom Animalia? $4+4=8$
- (b) Write the general features of kingdom Fungi. 3
3. (a) What are carbohydrates? Discuss the different types of carbohydrates with examples. Add a note on their functions. $1+3+1+2=7$
- (b) Discuss the functions of proteins. 4
4. (a) Describe the economic importance of any two microbial bioresources. $3 \times 2 = 6$
- (b) Explain the concept of evolution through natural selection. 5

(3)

5. (a) Discuss the economic importance of animals. 4
- (b) What is ecology? Explain the terms 'autecology' and 'synecology'. $3+2+2=7$
6. (a) Define a gene. Describe the basic structure of a gene. Add a note on its functions. $1+2\frac{1}{2}+2\frac{1}{2}=6$
- (b) Differentiate between prokaryotic and eukaryotic cells. 5
7. (a) With proper examples, describe the in-situ and ex-situ methods of wildlife conservation. $3\frac{1}{2}\times 2=7$
- (b) Define biodiversity hotspot. List the four major biodiversity hotspots in India. $2+2=4$
