QP Code: RS20MSC17 | Reg. No | | | | | | | | | | | AR 20

GIET UNIVERSITY, GUNUPUR – 765022

M. Sc. (Second Semester) Examinations, September – 2021

20LSPC204 – BIODIVERSITY AND EVOLUTION

(Life Science)

Time: 2 hrs | Maximum: 50 Marks

(The figures in the right hand margin indicate marks.)

PART – A

Q.1. Answer ***ALL*** questions **(2 x 10 = 20 Marks)**

a. What give common and differential features of cladogram and phylogenetic tree?

b. What is adaptive radiation? Give two examples.

c. What is difference between Alfa and Beta diversity ?

d. Australian marsupials like macropus shows which type of distribution? Mention the main reason behind it?

e. What are the main features of biodiversity hotspots?

f. What is genetic drift?

g. What is hardy Weinberg's equation and its significance?

h. What do you mean by biological species? How it is different from phylogenetic concept ?

i. Why biodiversity hotspots are very sensitive areas?

j. What is sexual selection? Mention two examples seen in animal kingdom.

PART – B (6 x 5 = 30 Marks)

Answer ***ANY FIVE*** question | Marks

2.. What do you mean by Biodiversity? Write the significance of biodiversity and why biodiversity protection is essential? (6)

3. Discuss the Oparin's theory and also the Urey and millers experiment to validate the theory? (6)

4. Discuss four different types of species concept studied by you? (6)

5. Write short notes on (6)

   a. Chipko movement

   b. Ex-Situ conservation

6. What is natural selection? Who proposed the theory of natural selection? Show and discuss different type of selection with graph? (6)

7. Give an account of salient features of Biodiversity act. (6)

8. What is Adaptive radiation? Explain the causes of Adaptive radiation? Explain with one example. . (6)

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