2024/SEM/EVEN/09/26/LISB-652(B)/177

PG Even Semester Exam, 2024

Life Science & Bioinformatics

4th Semester

COURSE NO. LS-652 (B)

[Plant Biology- I]

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer all questions,

1. Write a detailed account on fossilization process and the types of fossil. 14

Or

2. Write notes on: 6+8=14
   a. NPC system of classification of pollens
   b. Applications of palynology

3. a. Define "coarse cereal". State the economic importance of Pennisetum glaucum. 2+6=8
   b. Write notes on : 3x2=6
      i. Withanolide
      ii. Pea oil

Turn over

Or

4. a. Write notes on : 2x2.5=5
      i. Benificial health benefits of Alcea rosea
      ii. Industrial use of Sorchorus sp.
   b. State various uses of lemon grass oil. 5
   c. State the use of soy based products in livestock's. 4

5. a. Define the term biodiversity. What are the different levels of biodiversity? Differentiate between biome, habitat and microhabitat. 2+2+3=7

b. Discuss the factors that affects the biodiversity of different biomes. 7

Or

6. Write notes on: 7x2=14

a. Food Web

b. Terrestrial Ecosystem.

7. Discuss the significance of TKDL with reference to the prevention of bio piracy. 14

Or

8. Write short notes on: 2+7=14

a. Mechanism of benefit sharing in case of plant related traditional knowledge.

b. How patentability of an invention is decided.

9. a. Describe the etiology, pathogenesis, symptoms and treatment of bacterial blight of rice. 7

b. Write note on the following: 2x3.5=7

i. Gall

ii. Inoculum potential

Or

10. a. Differentiate between endoparasite and ectoparasite. 3

b. Describe various methods employed by plant pathogens to evade host defences of plants. 4

c. Write in detail about control of late Blight of potato. 7

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