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RNLKWC/B.Sc.-CBCS/IIIS/BOT/H/GE3T/22

2022

BOTANY

[GENERIC]

(CBCS)

(B.Sc. Third Semester End Examinations-2022)

PAPER-GE3T

[Biotechnology]

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

Group - A

1. Answer any five of the following: **5x2=10**
- a) Write the botanical names and family of black pepper.
 - b) Write the two uses of Soybean. **1+1**
 - c) Mention the parts of cotton plant that is used commercially.
 - d) What do you mean by micro propagation?
 - e) What is the centre of origin and who first proposed the concept of centre of origin.
 - f) Name one oil yielding plant and their use.
 - g) Write the origin of wheat and its uses.
 - h) Name the enzyme that is used in PCR and its source.

(2)

Group – B

2. Answer any four of the following: **4x5=20**
- a) Write the importance of biotechnology in agriculture. 5
 - b) Write down the description of TS of clove with suitable diagram.
 - c) Write down the comparison between Southern, Western and Northern Blotting technique. 5
 - d) Write down the process of haploid production through androgenesis. 5
 - e) Briefly describe the steps involved in ELISA. 2+3
 - f) What is DNA finger printing? Write the applications of DNA fingerprinting. 2+3

Group – C

3. Answer any one of the followings: **1x10=10**
- a) Describe the process of commercial tea leaves processing. Describe the process of RFLP with proper diagram. 4+4+2
 - b) Write the health benefits of clove? Write the scientific names and family of soybean. What is endosperm culture. Mention two applications of it. 4+4+2