GURUDAS COLLEGE

B. Sc. SEMESTER V (Honours) Examination, 2020
Online Internal Assessment, 2020

Subject: BOTA

Subject Category: Honours

Course: BOT-A-DSE-B-5-5-TH

Course Name: Plant Biotechnology

Date of Examination: 4th March, 2021

Full Marks – 10

Time – 30 minutes

All questions carry equal marks

Answer the following (Any 5)   **2X5=10**

1. Cybrids are produced by

(a) The nucleus of one species but cytoplasm from both the parent species

(b) The fusion of two same nuclei from the same species

(c) The fusion of two different nuclei from different species

(d) None of the above

2. Bt cotton is a

(a) a cotton variety obtained by crossing two different cotton plants

(b) a cotton variety brought from South America

(c) an insecticide sprayed on cotton plant

(d) a transgenic cotton variety

3. _____ method uses high voltage electrical impulses for gene transfer

(a) Liposome fusion

(b) Microinjectile

(c) Electroporation

(d) Silicon carbide fibers

4. Which of the following bacterium is considered as natural genetic engineer

(a) *Agrobacterium tumnefaciens*

(b) *Agrobacterium radiobactor*

(c) *Pseudomonas putida*

(d) *Thermus aquaticus*

5. In artificial seeds, somatic embryos are frequently encapsulated by

(a) Sodium Alginate

(b) 2, 4-D

(c) Teepol

(d) None of them.

6. Use of 'Chemostat' is an example of

(a) Continuous culture

(b) Spinning culture

(c) Stirred culture

(d) Slowly rotating culture.

7. The Autoclaves are commonly operated at the temperature of

(a) 100°C

(b) 120°C

(c) 180°C

(d) 200°C

8. In Organogenesis, 'Caulogenesis' indicates initiation of

(a) Root only

(b) Shoot only

(c) Somatic embryos only

(d) Shoot with root

Instructions for submission of answer scripts

1. Write the front page/top sheet as per instruction.
2. Scan the pages in sequence and make a single PDF file.
3. Rename file as per instruction.
4. Email the PDF file within the stipulated time to the following

   Email IDs:

   1) **gcdbot2020@gmail.com**
   2) **honsgenexam@gmail.com**
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