

GURUDAS COLLEGE

B. Sc. SEMESTER V (Honours) Odd Semester Examination, 2021

Online Internal Assessment

Subject: BOTA

Subject Category: Honours

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

Course Name: PLANT BIOTECHNOLOGY

Date of Examination: 4th Jan, 2022

All questions carry equal marks

Time: 30 minutes

FM: 10

Answer the following (Any 5) :

2X5=10

1. The concept of tissue culture was proposed by

- (a) Simon
- (b) Haberlandt
- (c) White
- (d) Skoog

2. Rhizogenesis requires higher concentration of

- (a) ABA
- (b) Auxin
- (c) Cytokinin
- (d) GA₃

3. Hot Air Oven works at the temperature of

- (a) 50-100°C
- (b) 150-200°C
- (c) 200-250°C
- (d) 160-180°C

4. 'Callus' is composed of mass of

- (a) Parenchyma
- (b) Sclerenchyma
- (c) Plectenchyma
- (d) None

5. Artificial seeds may be formed by encapsulation of

- (a) organoides
- (b) stomatic embryos
- (c) meristemoides
- (d) None

6. Cybrids are

- (a) Nuclear hybrid
- (b) hybrid plants derived from cross pollination
- (c) cytoplasmic hybrids
- (d) cytological hybrids

7. In protoplast fusion, the lack of _____ allows the plasma membrane of two or more protoplast to come into intimate contact.

- (a) Cytoplasmic membrane
- (b) Cell wall
- (c) Cell membrane
- (d) Nuclear membrane

8. The size of the virulent plasmid of *Agrobacterium tumefaciens* is

- (a) 40-80 kb
- (b) 80-120 kb
- (c) 140-235 kb
- (d) > 235 kb

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 id
gchonsgen@gmail.com
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