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**ST—499—2022**

**FACULTY OF SCIENCE**

**M.Sc. (Fourth Semester) EXAMINATION**

**MAY/JUNE, 2022**

**(New/CBCS Pattern)**

**BOTANY**

**Paper—XVIII-C**

**[(Seed Technology-III (Seed Production and Processing)]**

**(Wednesday, 6-7-2022)**

**Time : 2.00 p.m. to 5.45 p.m.**

*Time— 3.45 Hours*

*Maximum Marks—75*

*N.B. :— (i) All questions are compulsory.*

*(ii) All questions carry equal marks.*

*(iii) Draw neat and well labelled diagrams.*

1. Describe the method of seed production in the following pulses : 15

(a) Chickpea;

(b) Green gram.

*Or*

Explain the methods of seed production in the following major oil-seeds :

(a) Groundnut;

(b) Sunflower.

2. Describe in detail about : 15

(a) Seed multiplication ratio;

(b) Minimum seed certification standards.

*Or*

Explain in detail maintenance of nucleus and breeder seed.

P.T.O.

3. Explain in detail about seed treating equipments. 15

Or

Write in detail about functions of the following equipments :

- (a) Scalper debearder;
- (b) Scarifier;
- (c) Indent Cylinder;
- (d) Disc Separator.

4. Describe in detail about seed marketing structure. 15

Or

Explain different seed marketing channels.

5. Write short notes on (any *three*) : 15

- (a) Floral structure of pea
- (b) Cytoplasmic male sterility
- (c) Specific gravity separator
- (d) Seed pellets.