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UG/3rd Sem/BOT(G)/T/19

2019

B.Sc

3rd Semester Examination

**BOTANY (General)**

**Paper - DSC 1C-T**

Full Marks : 40hrs

Time : 2hrs

*The question are of equal value for any group/half. The figures in the margin indicate full Marks. Candidates are required to give their answers in their own words as far as practicable. Illustrate the answers wherever necessary.*

1. Answer any five questions of the following :

2×5 = 10

- (a) What is Promristem?
- ✓(b) Write the typical anatomical characters of stomata of a xerophytic plant.
- ✓(c) Write two anatomical characters by which decot stem can be distinguished from monocot stem.
- ✓(d) Write the characters of cork cells.
- (e) What is hilum of an oule ?

[ Turn Over ]

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(f) Define triple fusion. Where is it found ?

✓(g) Define polyembryony with example.

✓(h) What does hypophysis do?

2. Answer any *four* questions of the following :  $4 \times 5 = 20$

(a) (i) What are early wood and late wood ? 2+3

(ii) Write a short account on lenticel.

(b) (i) Write the anatomical difference between a monocot leaf and a dicot leaf.

(ii) What is protostele? Give example. 3+2

(c) Write the process of microsporogenesis in angiosperms with suitable diagrams. 5

(d) Write short notes on :  $2\frac{1}{2}+2$

(i) Unisexuality in angiosperms.

(ii) Homogamy in angiosperms.

(e) (i) Write the characters of meristem. 2+3

(ii) What is tunica and corpus?

(f) (i) Write the character of helobial type of endosperm.  $2+(1+2)$

(ii) What is apomyis? Write its importance. 2+3

3. Answer any *one* question of the following :  $10 \times 1 = 10$

✓(a) (i) How does the embryo of Capsella bursapastors develop after fertilization ? 8+2

(ii) What is Perisperm ?

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3. Answer any *one* question of the following:

1×10=10

- (a) What is phylogenetic system of classification? Briefly describe Engler and Prantl's system of classification upto series. Write the merits and demerits of this classification. 1+6+1½+1½
- (b) Write the principles of ICN. Describe the different criteria for the rejection of names. 6+4