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UG/3rd Sem/BOT(H)/Pr/19

2019

UG 3rd Semester (Honours) Examination

BOTANY

Paper - C7P

(Genetics)

[Practical]

Full Marks : 20

Time : 3 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Answer *all* questions.

1. Make a suitable squash preparation of the pretreated, fixed and stained root tip material 'A'. Draw, label and count the chromosome from a scattered metaphase plate.

[Squash preparation -2, Drawing and Labelling 3,
Chromosome count - 1] 6

[Turn Over]

2. Determine the goodness of fit of the supplied ratio of Specimen B Chi-Square method.

[Calculation -4, Comment -1] 5

3. For Q No. 3 'B'- Permanent slides/photographs of Translocation Ring, laggard or Inversion Bridge should be given.

For Q No. 3 'C' Mitotic Anaphase/Telphase/Meiotic Leptotene, Zygotene, Pachytene/Diplotene should be given.

4. Identify the specimens – 'C' and 'D' with reasons.

2×2

5. Laboratory Note Book. 2

6. Viva-Voce. 3
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[Practical]

Instruction to the Examiners

1. Each student should be supplied with pretreated, fixed and stained roottip of *Allium cepa*. Students should make a squash preparation with the sample on slide. The slide should be sealed with wax or nailpolish. Examinee should select out an ideal metaphase plate under microscope and would draw and label and leave the preparation for evaluation.
 2. Each student should be supplied with seed of two/three different colours (may be artificially coloured) in a ratio any one of the following :
9 : 7, 13 : 3, 15 : 1, 12 : 3 : 1, 9 : 3 : 4 and 9 : 6 : 1.
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