

**PG (NEW) CBCS**  
**M.Sc. Semester-III Examination, 2019**  
**BOTANY**  
**PAPER: BOT-395**  
**(Practical)**

**Full Marks: 25****Time: 3 Hours**

**UNIT-I:**

**BOT 395.1 CELL BIOLOGY, GENETICS AND BIOTECHNOLOGY**

1. Prepare and appropriately stained slide for supplied sample 'A'
  - i) Requisition
  - ii) Experimentation (Slide preparation)
  - iii) Drawing
  - iv) Comment

[1+3+2+1=7]
2. Identify with components for the specimen 'B' and 'C'.

[2.5+2.5=5]
3. Perform the experiment on biometry for supplied materials
  - i) Experiment
  - ii) Comment

[3+3=6]
4. Viva-voce

[4]
5. Laboratory Note Book

[3]

*Aswjit Singh*

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**UNIT-II:****BOT 395.2 PLANT PHYSIOLOGY, BIOCHEMISTRY & MOLECULAR BIOLOGY**

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|---|----------|
| <b>1. Perform the Experiment with (✓) mark</b>  | <b>9</b> |
| i) Determination of percentage of seed viability.   |          |
| Or  |          |
| ii) Determination of isotonic concentration and osmotic pressure of cell sap.             |          |
| Or  |          |
| iii) Effect of respiratory inhibitor on the rate of respiration.                          |          |
| Or  |          |
| iv) Extraction and comparative study of chlorophyll levels in leaves of different ages.   |          |
| <b>Requisition</b>  | <b>2</b> |
| <b>Experimentation</b> ✓  | <b>3</b> |
| <b>Results</b>  | <b>2</b> |
| <b>Conclusion</b>   | <b>2</b> |
| <b>2. Perform the experiment with (✓) mark</b>  | <b>9</b> |
| i) Determine the protein concentration in the supplied sample using standard curve.       |          |
| Or  |          |
| ii) Determine the carbohydrate concentration in the supplied sample using standard curve. |          |
| Or  |          |
| iii) Determine the IAA concentration in the supplied sample using standard curve.         |          |
| <b>Requisition</b>  | <b>2</b> |
| <b>Experimentation</b>  | <b>3</b> |
| <b>Results</b>  | <b>2</b> |
| <b>Conclusion</b>   | <b>2</b> |
| <b>3. Viva – voce</b>   | <b>4</b> |
| <b>4. Laboratory Note Book</b>  | <b>3</b> |

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 49/01/2020