

2021

BOTANY — HONOURS

Paper : CC-6

Full Marks : 50

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

1. Answer the following questions :

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| (a) How spadix inflorescence differs from catkin inflorescence? | 2 |
| (b) Give an example of hemicyclic flower. | 1 |
| (c) What is accrescent calyx? Give an example. | 1+1 |
| (d) What is cremocarp? | 1 |
| (e) What is synergid? | 1 |
| (f) What is tetrasporic type of embryo sac development? | 2 |
| (g) What do you mean by helobial type of endosperm development? | 1 |

2. Answer **any two** from the following :

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|---|-----|
| (a) Draw and describe gamopetalous regular forms of corolla. | 2+3 |
| (b) Describe different types of schizocarpic fruits with examples. | 5 |
| (c) With suitable illustrations and examples distinguish between helicoid and scorpioid cyme. | 5 |
| (d) Briefly describe the different types of polyembryony in angiosperms. | 5 |

3. Answer **any three** from the following :

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| (a) Explain briefly with examples, different types of simple racemose inflorescence. | 10 |
| (b) Comment on the adhesion and cohesion of stamens with suitable diagrams and examples. Discuss in brief the placentation types with suitable diagrams. | 6+4 |
| (c) With labelled diagrams describe the embryo development in <i>Capsella</i> . | 10 |
| (d) Describe different types of dry dehiscent fruits with examples. What is pseudocarp? Distinguish syconus and sorosis type of fruits. | 5+1+4 |
| (e) Describe the events in relation to pollen germination and growth of pollen tube. What do you mean by double fertilization? | (4+4)+2 |
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