

2020

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) What is perisperm? Give an example. | 1+1 |
| (b) What is a compound spadix inflorescence? | 1 |
| (c) Define schizocarpic fruit. Give an example. | 1+1 |
| (d) Define aggregate fruit. | 1 |
| (e) What is hypocrateriform corolla? Give an example. | 1+1 |
| (f) What is apogamy? | 1 |
| (g) How a spike differs from a raceme inflorescence? | 1 |

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

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|---|-------|
| (a) Write a short note on apomixis in angiosperms. | 5 |
| (b) Distinguish between cyathium and hypanthodium inflorescences with one example each. | 2½+2½ |
| (c) With suitable examples describe different fleshy indehiscent fruits. | 5 |
| (d) Describe different types of pollen tube entry into ovule with examples. | 5 |

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

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| (a) What is cymose inflorescence? Describe different types of cymose inflorescences. | 2+8 |
| (b) Define double fertilization. Describe double fertilization with suitable diagrams. | 3+7 |
| (c) What is megasporogenesis? Describe monosporic and bisporic types of megagametogenesis. | 2+4+4 |
| (d) Describe the genetic and molecular aspects of flower development. | 10 |
| (e) With labelled diagrams describe four different types of ovule. | 2½+2½+2½+2½ |
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