

2023

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 pappus? | 1 |
| (b) Write the difference between interpetiolar and intrapetiolar stipules. | 2 |
| (c) What is resupination? | 1 |
| (d) What is stylopodium? Cite an example. | 1+1 |
| (e) What are synergids? | 1 |
| (f) What are aggregate fruits? | 1 |
| (g) What is gynostegium? Give one example. | 1+1 |

2. Answer *any two* from the following :

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| (a) Compare spikelet and spadix inflorescence with suitable diagrams and examples. | 5 |
| (b) With suitable illustrations describe different types of placentations found in angiosperm. | 5 |
| (c) State the different stages of microsporogenesis with suitable diagram. | 3+2 |
| (d) Distinguish between apospory and apogamy. What is adventive embryony? Give example. | 3+(1+1) |

3. Answer *any three* from the following :

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| (a) What is versatile anther? Name one family where it is found. Draw and describe different types of stamens resulting from cohesion and adhesion. | 1+1+8 |
| (b) Describe different types of capsular and schizocarpic fruits with one example of each. | 5+5 |
| (c) Describe the process of entry of pollen tube into the ovule. Draw and describe the process of double fertilization. What are bisporic and tetrasporic embryosac development? | 4+4+2 |
| (d) Describe the development of embryo in <i>Capsella bursa-pastoris</i> with suitable diagrams. What is cleavage polyembryony? | 8+2 |
| (e) What do you mean by floral induction? Explain the name and function of different genes involved in floral development. | 2+8 |
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