

710**April 2024**

Time - Three hours
(Maximum Marks: 100)

- [N.B.** 1. Answer all questions under Part-A. Each question carries 3 marks.
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART - A

1. What are the thermosets used to prepare FRP?
2. What are the functions of fillers?
3. What are the properties of Dough moulding compounds?
4. What is DMC?
5. What are the advantages of spray up process?
6. List the advantages of hand layup process.
7. What is trimming?
8. What is turning?
9. Give any three industrial applications of FRP.
10. List any three electrical applications of FRP.

[Turn over.....

PART – B

11. (a) Compare the properties of FRP and metals.
(Or)
(b) Explain about the various additives used in composites and their functions.
12. (a) Discuss the preparation of DMC with neat sketch. Mention its properties.
(Or)
(b) Write short notes on (i) Cost economics (ii) Fabrication of moulds.
13. (a) Explain the manufacture of FRP products by vacuum bag method.
(Or)
(b) Explain about Autoclave moulding.
14. (a) Discuss various moulding defects and recommend remedies for the same.
(Or)
(b) Explain the following post processing technique (i) Cutting (ii) Machining (iii) Joining.
15. (a) Discuss about the various construction applications of FRP.
(Or)
(b) Explain various marine and agricultural applications of FRP.
