

701**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 do you mean by external undercut?
2. What is standard mould base?
3. Draw typical sketch of a guide pillar.
4. What is guide bush?
5. Write a note on dog leg actuation technique.
6. What is 2-plate mould?
7. What are the merits of semi-positive mould?
8. What are flash pockets?
9. What is pinch off?
10. What is a die head?

[Turn over.....

PART – B

11. (a) Explain the design of plastic products to meet the processing requirements.

(Or)

- (b) Discuss the effect of inserts on mould strength.

12. (a) Discuss about stripper ejection with sketch.

(Or)

- (b) With neat sketch, discuss the construction of (i) Fan gate
(ii) Ring gate.

13. (a) Explain empirical formula for estimation of number of cavities in a mould.

(Or)

- (b) Explain the construction of hot runner mould. Mention its advantages.

14. (a) Discuss the types of transfer moulds.

(Or)

- (b) Compare the construction of pot type and plunger type transfer moulds.

15. (a) With a neat sketch, explain about the design of a pipe die.

(Or)

- (b) Explain parison programming in blow moulding.
