

## MODEL QUESTION PAPER - I

Time : 3 Hrs

Max Marks : 100

- [N. B: 1. Answer all FIVE questions from PART – A. Each question carries 1 mark.
2. Answer any TEN questions from PART – B. Each question carries 2 marks.
3. Answer division (a) or division (b) of each question in PART-C. Each question carries 15 marks.]

### PART – A

#### Part - A (10 x 3 = 30 Marks)

1. What is pattern and casting?
2. List the advantages of hot working.
3. State the principle of Arc welding.
4. What are the types of flame? Explain any one.
5. What is orthogonal cutting?
6. Define feed and speed.
7. What is meant by indexing?
8. What is counter boring in drilling machine?
9. What is natural abrasive?
10. What is ATC?

#### Part - B (5 x 14 = 70)

11. a. Explain the pattern allowance in detail. (14 Marks)  
(or)
- b. What is hot and cold working? List their advantages and disadvantages. (14 Marks)



12. a. i) Explain MIG welding. (7 Marks)  
ii) Explain various types of flames. (7 Marks)  
(Or)  
b. i) Explain electroslog welding. (7 Marks)  
ii) Explain the destructive tests of welded points.  
(7 Marks)

13. a) Explain with a neat sketch of nomenclature of a single point cutting tool. (14 Marks)  
(Or)

- b) List various operations done in lathe. Explain any four. (14 Marks)

14. a) Sketch and explain the nomenclature of plain milling cutter. (14 Marks)  
(Or)

- b) Write short notes on Tool holding devices of drilling machines. (14 Marks)

15. a) Explain cylindrical grinding machine with neat sketches. (14 Marks)

(Or)

- b) Explain the construction and working of CMM.  
(14 Marks)