

MANUFACTURING TECHNOLOGY-III

(Theory - 1)

Full Marks : 80

Time : 3 hours

Answer any five questions

Figures in the right-hand margin indicate marks

- 1. (a) What is die and punch ? 2
- (b) Explain advantages of dies. 6
- (c) With a neat sketch explain compound die. 8
- 2. (a) Define jig and fixture. 2
- (b) Explain 3-2-1 point location. 6
- (c) With a neat sketch explain screw fixture and wedge fixture. 8

- 3. (a) Define geometry accuracy. 2
- (b) Write the procedure of installation of machine tools. 6
- (c) Explain the testing of geometry accuracy of lathe. http://www.sctevtonline.com 8
- 4. (a) What is casting ? 2
- (b) Explain advantages and disadvantages of die casting method. 6
- (c) With a neat sketch explain investment casting. 8
- 5. (a) What is centrifugal casting ? 2
- (b) Explain sintering. 6
- (c) Describe methods of components by powder metallurgy technique. 8
- 6. (a) What do you mean by non-conventional machining process ? 2
- (b) Write the function of laser beam machining. 6
- (c) With a neat sketch explain function of EDM. 8

(Turn Over)

(3)

7. (a) What do you mean by laser ? 2
(b) Write the function of Abrasive jet machining. 6
(c) With a neat sketch explain ECM. 8

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