

SEAT No. \_\_\_\_\_

[A-8]

No. of Printed Pages; 01 82

**SARDAR PATEL UNIVERSITY**  
VALLABH VIDYANAGAR – 388 120  
**M. Sc. ( PM VALUATION )**  
SECOND SEMESTER – 2017-18

VP 531 Principles of M/c Tools & Fact. Eqp.

End Semester Examination

DATE : 06-11-2017

TIME : 10:00 a.m. to 01:00 p.m.

Total Marks: 50

Note: (i) Figures on right side indicate marks  
(ii) Use separate answer books for the two sections

**Section I**

- Q. 1**      **Attempt any three.** 09
- A. Discuss the advantages and limitations of hot and cold working.
- B. What are the functions of coatings on shielded electrodes?
- C. Describe the main parts of slotting machine with neat sketch.
- D. What are the different methods of welding? Describe any one in detail.

- Q. 2 A.** Explain, with neat sketches, the different types of hoisting equipment. 04
- B. What is the specific use of wood turning lathe? Sketch and describe its working in detail. 04

**OR**

- B. What are the different methods of welding? Describe them in brief. 04
- Q. 3 A.** Write note on: 1. Combination set and 2. Bevel protractor. 04
- B. State and explain the different types of conveyors used for material handling. 04

**OR**

- B. Discuss how would you proceed to check: 1. Flatness, 2. Squares, 3. Roundness and 4. concentricity 04

**Section II**

- Q. 4 A.** Differentiate between orthogonal and oblique cutting. What is the utility of orthogonal cutting? 03
- B. What is the function of grinding machine? How does it differ from a plain grinder? 03

**OR**

- B. Name and describe the principal parts of milling machine. 03
- C. List various milling machine operations, describe one in brief. 03
- Q. 5 A.** How a lathe is specified? Discuss. 04
- B. State the operations which may perform on a lathe. 04

**OR**

- B. What are the difference between a capstan and a turret lathe? 04
- Q. 6 A.** Sketch and describe in brief of a radial drilling machine. 04
- B. What are the advantages of hydraulic shaper over crank shaper? 04

**OR**

- B. What are the fundamental difference between a planner and a shaper? 04

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