

<b>5E3178</b>	Roll No. _____	Total No. of Pages : <b>3</b>
<p><b>5E3178</b></p> <p><b>B.Tech. V Sem.(Main/Back) Exam. Dec. 2012</b></p> <p><b>Mechanical Engg.</b></p> <p><b>SME4 Industrial Engg.-I</b></p>		

**Time : 3 Hours**

**Maximum Marks : 80**

**Min. Passing Marks : 24**

*Instructions to Candidates:*

*Attempt any five question selecting one question from each unit . All Questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used / calculated must be stated clearly.*

Use of following supporting material is permitted during examination.  
(Mentioned in form No. 205)

1. \_\_\_\_\_ **Nil** \_\_\_\_\_

2. \_\_\_\_\_ **Nil** \_\_\_\_\_

## UNIT-I

Q.1 (a) What is scientific management? What are principles of scientific management? (8)

(b) Discuss reactions and criticisms of Taylor and Fayol. (8)

**OR**

Q.1. (a) What is decision making? Discuss different stages of decision making. (8)

(b) What is management? Discuss evolution of management theories. (8)

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## UNIT-II

- Q.2 (a) Discuss the first three steps for the formation of a joint stock company. (10)
- (b) Discuss about the State Undertaking Organisations. (6)

**OR**

- Q.2 (a) Discuss line and functional organisations. Give their advantages and limitations. (8)
- (b) Discuss private and public limited companies. (8)

## UNIT-III

- Q.3. (a) Discuss and differentiate preference shares and equity shares. (6)
- (b) Discuss different kinds of capital sources of fixed capital. (4)
- (c) Total assets Rs.1,10,000/-. Fixed assets Rs 50,000/-. Capital employed Rs. 90,000/-. If there are lonely investment then calculate current ratio. (6)

**OR**

- Q.3 (a) Discuss the following financial ratio:  
liquidity ratio, profits investment ratio and equity ratio. (8)
- (b) What is the role of financial institutions? (4)
- (c) Discuss balance sheet with suitable example. (4)

## UNIT-IV

- Q.4 (a) Explain straight line, sinking fund and decline balance method of depreciation. (8)
- (b) Calculate the compound amount when Rs.2000/- are lent at 8% interest rate for 05 years.
- (I) The interest being compounded semi-annually (every six months).
- (II) The interest being compounded quarterly. (8)

[Contd...]



## OR

Q.4. (a) The price of an electronic office equipment is Rs.2,50,000/- and the salvage value at the end of 10 years is Rs.50,000/-. Calculate the unamortized value after 05 years by -

(I) Sinking fund method

(ii) Sum of years digit method.

(III) Declining balance method. (8)

Q.4. (b) Explain Present Worth, Sinking Fund and Compound Amount annuity methods. (8)

## UNIT-V

Q.5. (a) What is trade union? What are their objectives and functions? Discuss their advantages and limitations. (8)

(b) Discuss all methods of resolving disputes. (8)

## OR

Q.5. Explain the following:

(a) Trade disputes Acts

(b) Factory Act 1944.

(c) Payment of Wages Act, and

(d) Workman's Compensation Act. (4 x 4=16)

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