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NEW SCHEME

Eighth Semester B.E. Degree Examination, May / June 2006
Electrical and Electronics
Industrial Management, Electrical Estimation &
Economics

Time: 3 hrs.]

[Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Explain differential piece rate system of wage payment of Taylor. (05 Marks)
 b. Discuss the following in view of Henri Fayol's contribution to industrial management i) Authority and responsibility, ii. Discipline
 iii. Unity of command.
 Mention the other eleven principles. (11 Marks)
 c. Write the merits of SCALAR type of organization. (04 Marks)
- 2 a. Explain a typical Line – Staff organization. (06 Marks)
 b. Mention all the functions of management and discuss any two of them. (08 Marks)
 c. Discuss Mc Gregor's theory X. (06 Marks)
- 3 a. Explain Maslow's hierarchy of needs and satisfactory of needs. (07 Marks)
 b. Write briefly about Manager's contribution to productivity. (05 Marks)
 c. With reference to Hawthorne's investigations, write briefly about
 i. Re-organizing first line supervision
 ii. Introducing employee consultation
 iii. Integrating pay with social needs.
 iv. Employee behaviour. (08 Marks)
- 4 a. Discuss any three methods of senior executive training. (09 Marks)
 b. Mention the causes of industrial disputes. (03 Marks)
 c. Write any eight general rules of interior wiring. (08 Marks)
- 5 a. Mention the steps employed in accomplishing a project planning by CPM. (08 Marks)
 b. Give a suitable plant layout of a workshop of inner dimensions 10 m × 8 m for the following machines operating on 440 V supply.
 i. 4 Lathes of 2 HP each.
 ii. 1 Milling machine of 10 HP
 iii. 1 Drilling machine of 1 HP.
 Comment on the layout. (08 Marks)
 c. Write about SQC. (04 Marks)
- 6 a. Mention and write briefly about the data required for preparing an estimate for an electrical installation. (05 Marks)
 b. Compare the surface conduit and concealed conduit types of wiring. (05 Marks)
 c. Prepare an estimate of Earthing using GI pipe for 1.25 m assuming suitable market rates. Draw the approximate sketch. (10 Marks)

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- 7 a. In a workshop, one 15H.P., 400 V, 3- ϕ , 50 Hz motor is to be installed. Prepare the estimate of the cost required with a layout of the wiring. The plan of the workshop is shown in fig.Q7. The DB is placed vertically at a height of 1.5 m from ground level.

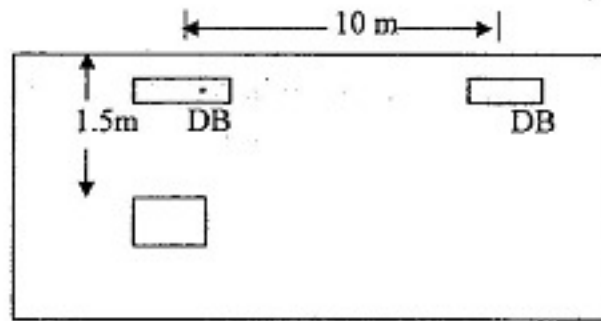


Fig. Q7 LAYOUT

(20 Marks)

- 8 a. A machine is purchased for Rs 60,000 /=. The estimated life of machine is 20 years and the scrap value is Rs 10,000 /=. Calculate the rate of depreciation by sinking fund method if the rate of interest on depreciation fund is 5%. (05 Marks)
- b. What is inventory control? Write about the importance of inventory control and mention its advantages. (08 Marks)
- c. List out the limitations of breakeven analysis. (07 Marks)
