

Total No. of Questions : 10]

SEAT No. :

P3081

[5059]-692

[Total No. of Pages : 2

B.E. (Instrumentation and Control Engineering)
PROJECT ENGINEERING & MANAGEMENT
(2012 Pattern) (406262) (End-Semester) (Semester - I)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.*
- 2) *Neat diagrams should be drawn whenever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data if necessary.*

Q1) What are the various types of organization structures, Explain in detail? Draw an organizational structure for manufacturing firm. **[10]**

OR

Q2) a) Explain interaction between Electrical, mechanical & safety departments with instrumentation department. **[6]**

b) Enlist the skills required for Project Manager. **[4]**

Q3) a) Explain project life cycle stages in brief. **[5]**

b) Write note on Computers in project Management Engineering. **[5]**

OR

Q4) a) Define Optimistic Time, Most Likely Time, Pessimistic Time, Expected time the following w.r.t. PERT. **[4]**

b) Compare & Contrast between PERT & CPM. **[6]**

Q5) a) Explain Kick-off meeting and state its importance in relation with Project Engineering. **[6]**

b) Define Project statement & P&T diagram. Also give its importance. **[10]**

OR

P.T.O.

- Q6)** a) Explain Cable identification schemes, Cable trays. [6]
b) What is FAT, CAT, SAT? Write the importance of the same. Also prepare CAT report for any typical instrumentation item. [10]

- Q7)** a) Give Hazardous area classifications & elaborate its effect on design. [10]
b) Draw the loop diagram for flow control loop. [6]

OR

- Q8)** a) Explain Tendering and bidding process in detail. What is the need of Bid evaluation? Explain. [9]
b) Explain Project Estimation, Project Planning, Project Commissioning, Project Hardware w.r.t. Instrumentation & Control, [7]

- Q9)** Explain following terms in connection with design of Panel. [18]
a) MBOM
b) Types of installation Details
c) Ergonomic considerations

OR

- Q10)** a) Explain Vendor registration, Vendor Liaison, in relation with industrial purchases. [10]
b) Write Notes on [8]
i) Intelligent operator interface
ii) Calibration report of I/P converter

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