B.E. Instrumentation Engineering (CBCS / Model Curriculum) Semester - VIII

8BEIE02 / IN802M - Project Planning Estimation and Assesment

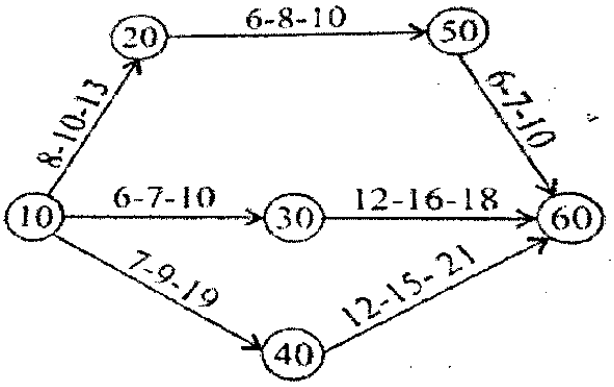
P. Pages : 2 **GUG/S/23/14364**

Time : Three Hours * 3 0 5 2 * Max. Marks : 80

Notes : 1. All questions carry as indicated marks.
2. Due credit will be given to neatness and adequate dimensions.
3. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) List & explain different categories or types of projects and discuss the role of project manager in any organization. **8**

b) In the network shown, find the critical path also find t_o, t_m, t_p for the given example of PERT. **8**



OR

2. a) Enlist the various standards used in industries and explain any three in detail. **8**

b) Differentiate between project scheduling techniques CPM & PERT. **8**

3. a) Write a short note on types of project documents. **8**

b) What are the importance and salient features of P & ID in process control project. **8**

OR

4. a) What is meant by specification? What kind of information does specification provide? Explain the use of instrument specification sheet. **8**

b) Write neat sketch, develop a P & ID for any of your known process & indicate all aspects of P & ID. **8**

5. a) State contents of Quotation. How to evaluate techno-commercial report. **8**

b) What is estimation? Explain in brief types of estimates. **8**

OR

6.	a)	Classify the tenders and discuss the different steps in purchasing.	**8**
	b)	Discuss the generalized site selection and layout criteria of a factory.	**8**
7.	a)	Write short note on installation details of flow instruments.	**8**
	b)	Draw and explain the typical sketch of installation of thermocouple.	**8**

OR

8.	a)	Write note on Site Acceptance Test (SAT).	**8**
	b)	Write note on Customer Acceptance Test (CAT).	**8**
9.	a)	Discuss the significance of control center and its design objectives.	**8**
	b)	Write a short note on intelligent operator interface.	**8**

OR

10.	a)	What are the types of control panels normally used in process plant? Draw & explain the engineering details required to be considered for it.	**8**
	b)	Write a short note on control room lighting.	**8**

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