

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VIII (NEW) EXAMINATION – WINTER 2020

Subject Code:2180611

Date:19/01/2021

Subject Name:Construction Management

Time:02:00 PM TO 04:00 PM

Total Marks: 56

Instructions:

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

MARKS

- Q.1**
- (a) Explain tendering stage of project . **03**
 - (b) Explain (i) Total float (ii) Dummy activity **04**
 - (c) Calculate Earliest start time ,Latest start time , Earliest Finish Time and Latest Finish time and critical path for the following project **07**

Activity	Predecessor Activity	Duration in weeks
A	-	3
B	A	4
C	A	2
D	B	5
E	C	1
F	C	2
G	D,E	4
H	F,G	3

- Q.2**
- (a) Describe limitations of Bar chart . **03**
 - (b) For different activities of certain project t_o, t_m and t_p in days are given below calculate expected duration , Variance and standard deviation for each activity **04**

Activity	t_o	t_m	t_p
A	3	7	15
B	2	8	12
C	1	3	7
D	6	18	26

- (c) What are the functions of organizations? Describe Line or military organization **07**

- Q.3**
- (a) Why PERT is considered better than CPM , for research and complicated projects ? **03**
 - (b) Describe advantages of Project scheduling **04**
 - (c) Describe resources smoothing . **07**

- Q.4**
- (a) Explain (i) Earliest start time (ii) Latest finish time **03**
 - (b) Explain (i) Balance sheet (ii) Working capital **04**
 - (c) Discuss Principles and various steps in accounting process **07**

- Q.5**
- (a) Explain ABC Analysis of Inventory control for material management **03**
 - (b) Explain A-O-A and A-O-N Network **04**
 - (c) What is TQM ? Describe Principles of TQM **07**

- Q.6 (a) Give Advantages of Quality control **03**
(b) Explain Building Block of TQM **04**
(c) Explain EOQ Model for material procurement **07**
- Q.7 (a) Explain value Engineering **03**
(b) Prepare Job Layout for seven storeyed building . **04**
(c) Describe (i) causes of accidents and (ii) Contractor as stakeholder of construction Industry . **07**
- Q.8 (a) Explain principles of safety **03**
(b) Explain graphical method of linear programming . **04**
(c) Explain Success attributes for project performance evaluation . **07**

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