

# Dr. Babasaheb Ambedkar Technological University Lonere Raigad

## Department of Civil Engineering

### Question Bank

Subject - **BTCVC 604 \_Project Management**

#### Module 1

- Q.1 Explain in detail project, project management and components of project management.
- Q.2 Explain phases of project management.
- Q.3 Explain phases in a construction project management.
- Q.4 Explain Bar chart, its aspects, advantages and dis-advantages.
- Q.5 Create WBS and Draw Bar chart for renovation work of a G+1 residential building.
- Q.6 Create WBS and Draw Bar chart for any construction activity.
- Q.7 Differentiate between Bar chart and Milestone Chart.
- Q.8 Explain rules of development of network diagram.
- Q.9 Draw the network diagram and determine the project duration for the following:

Activity	A	B	C	D	E	F	G	H	I	J	K
Predecessor	--	--	--	A	B	B	C	D	E	G, F	H, I
Duration (Days)	5	6	3	5	7	10	4	2	3	6	4

- Q.10 Find the various floats associated with the above project.

## Module 2

- Q.1 Define network compression and explain various methods.
- Q.2 Explain graphical representation of cost slope.
- Q.3 Crash the following project by 2 weeks and find the crash cost. Neglect Indirect Cost.

Activity	Predecessor Activity	Normal Time (Weeks)	Crash Time (Weeks)	Normal Cost (Rs.)	Crash Cost (Rs.)
A	-	4	3	8,000	9,000
B	A	5	3	16,000	20,000
C	A	4	3	12,000	13,000
D	B	6	5	34,000	35,000
E	C	6	4	42,000	44,000
F	D	5	4	16,000	16,500
G	E	7	4	66,000	72,000
H	G	4	3	2,000	5,000

- Q.4 Explain resource allocation.
- Q.5 Differentiate between Resource smoothing and resource leveling.

### Module 3

- Q.1 Explain PERT in detail.
- Q.2 Differentiate between CPM and PERT.
- Q.3 Define Optimistic, pessimistic and most likely time estimates.
- Q.4 Draw the network diagram, determine the project duration and find the Z value for completing the project in 25 days.

Activity	1-2	1-3	2-4	3-4	3-5	2-6	4-6	5-6
to	6	3	2	4	1	5	7	1
tm	9	4	5	6	2	6	8	2
tp	12	11	14	8	5	7	15	3

### Module 4

- Q.1 Explain Demand and supply curve.
- Q.2 Explain types of costs.
- Q.3 Explain types of interests.
- Q.4 What are the various methods of economic comparison of projects?
- Q.5 Explain cash flow diagram with example.
- Q.6 Explain various interest formulae and their significance.
- Q.7 Find the value of Rs. 20000 deposited annually after 10 years with 10% p.a.
- Q.8 Loan amount is 10 lakhs. Find the amount to be deposited monthly for 10 years with 10% p.a. compounded annually.

## Module 5

- Q.1 Explain break-even analysis.
- Q.2 Explain significance of break-even analysis.
- Q.3 Fixed cost is 20 lakhs, Variable cost is Rs. 5, If the revenue for each item is Rs. 110, Calculate Break even Quantity
- Q.4 In the above problem, if company wants a profit of 5 Lakhs, how many units shall it sell?
- Q.5 Explain the quality control concept.
- Q.6 Explain the statistical methods of quality control.
- Q.7 Explain the process of quality control in construction projects.

## Module 6

- Q.1 Explain the concept of Total Quality Management.
- Q.2 Explain Philosophy of Juran.
- Q.3 Explain Philosophy of Deming.
- Q.4 Explain Quality Circle Implementation.
- Q.5 Explain ISO 9000 series.
- Q.6 Explain ISO 14000 series.
- Q.7 Explain use of Computers in Project Management.

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