

## B.E. Civil-VIII e-sche.

Marks: 80

Time: 3-hour

N.B.: (1) Question No 1 is Compulsory.

- (2) Attempt any three questions out of the remaining five.
- (3) All questions carry equal marks.
- (4) Assume suitable data, if required and state it clearly.
- (5) Notations carry usual meaning.

## Q1. Answer the following (Any FOUR.)

[5M]

- a) What are the contents of project charter? who prepares and authorizes the project charter
- b) Compare the top-down budgeting and bottom-up budgeting.
- c) What is Goldratt's critical chain method?
- d) Explain the significance of IRR method in project selection.
- e) Briefly describe the purchasing cycle.
- f) Explain the risk breakdown structure.
- (a) A consulting project has an actual cost of Rs. 35000, Scheduled cost Rs. 27000, and [5M] completed work is Rs. 31000. Find the Scheduled and Cost Variance. Also find SPI and CPI.
  - (b) What is a contract? Explain different types of contracts in brief.
  - (c) Consider a project having following cash flow stream. The cost of capital (r) for the firm is 10%. Calculate NPV of project and decide whether to accept or reject the project.

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CASH Flow in	10,00,000	2,00,000	2,00,000	3,00,000	3,00,000	3,50,000

- Q3. (a) What is project life cycle? how does cost of change, risk and influence of stakeholders are [10M] affected with Project time during the life cycle of project?
- Q3. (b) Explain probability and impact matrix. What are the risk response strategies foe negative risks [10M] (threats) and positive risks(opportunities).

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(a) A small project is composed of 8 activities, whose time estimates are listed below. Q4.

Activity	Predecessor	to Bally	(tm	tp .
A	- 6	3	6	9 8
В	- 3	5 5	7	8
С	ACO	6 9	9	12
D	A	Q' 6 P	12	S 15
Е	₹ŏB €	9.	0 12	18
F	.86 B 85	SY12 6	18	24
G	% C, D, E	6 8	9	12
Н	3, 68,	3 3	6	9

- Draw the project network diagram. Find the critical path and expected project duration.
- ii) If the due date is 30 days. What is the probability that the project will be completed within the due date?
- iii) Find the probability of completing project between 26 to 31 days.

[10M]

Q4. (b) What are the non-numeric models of project selection? Expalin in brief. [5M]

Q4. (c) Explain importance of ethics in projects. [5M]

(a) How communication is planned and managed in project management? Q5.

[10M]

(b) What is life cycle of a project audit? what are responsibilities of project auditor? Q5. What is essential for successful project audit?

[10M]

(a) What are four stages of team development and growth? What are the barriers to team effectiveness?

[10M]

(b) List and briefly describe the ways project may be terminated. What are some non-technical reasons for project termination?

[10M]

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