B. Tech.

(SEM. VIII) EXAMINATION, 2008-09

PROJECT MANAGEMENT

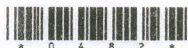*Time : 3 Hours]*   *[Total Marks : 100*

Note :   (1)   Attempt **all** the questions.

(2)   All questions carry **equal** marks.

(3)   Be precise in your answer.

(4)   No second answer book will be provided.

1   Attempt any **two** parts of the following :   **10×2=20**

(a)   Explain the important characteristics of a project. Describe the various phases of project management.

(b)   Describe various stages of a project cycle. How project control is exercised in project management?

(c)   Describe project life cycle, project life cycle curve, and cumulative expenditure time curve. Write in brief the importance of organizing human resource.

2   Attempt any **two** parts of the following :   **10×2=20**

(a)   Explain and classify major forms of organization structure. Write merits and demerits of a pure matrix form of organization.

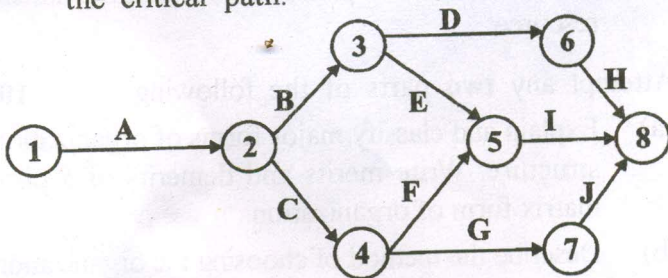(b)   Describe the method of choosing the organization structure to suit the given project.

(c) What is contracting? Discuss the procedure of awarding contracts. What is earnest money deposit?

3 Attempt any **two** parts of the following : 10×2=20

(a) How will you analyze the components of the cost in an industrial project? Discuss in brief.

(b) Enlist the performance indicators used in project management. Briefly explain the approaches used for the performance analysis. How modern approaches differ from old one?

(c) Write short notes on :
(i) Project risk analysis
(ii) Benefit analysis.

4 Attempt any **two** parts of the following : 10×2=20

(a) Define :
(i) Time estimates in PERT
(ii) Time estimates in CPM
(iii) Slack and Float.

(b) The normal durations required to perform various activities of the network shown below are given in table below. Compute : (a) Event Times, (b) Activity times, and Total float. Also determine the critical path.

Activity	Estimated duration	Activity	Estimated duration
A	5	F	2
B	2	G	3
C	6	H	8
D	4	I	7
E	4	J	2

(c) Write short notes on :
(i)   LOB Technique
(ii) Crashing of project.

5   Attempt any **two** parts of the following :   10×2=20
(a) Define the terms :
(i)   Direct Cost
(ii) Indirect Cost and
(iii) Outage Loss.
Determine :
(i)   Direct cost duration relationship
(ii) Total cost duration relationship of project as shown in table below :

Activity	Normal Duration (days)	Normal Cost(Rs.)	Crash Duration (days)	Crash Cost (Rs)
1-2	9	8000	6	9500
2-3	5	5000	3	5500

(b) Write short notes on :

(i)   Enterprise wide project management,

(ii) Future role of computers in project management.

(c) What are the essential requirements of project management software? Name few software packages for computerized project management system.