



Sanjay Ghodawat University, Kolhapur  
Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

2018-19

EXM/P/09/01

Year and Program: 2018-19 School of Technology

Department of Civil Engineering  
(SY B. Tech)

Course Code: CET 215

Course Title: Project  
Management & Engineering  
Economics

Semester – II

Day and Date Tuesday  
28/05/2019

End Semester Examination  
(ESE)

Time: Max Marks: 100  
10-30 am to 1-30 pm

**Instructions:**

- 1) All questions are compulsory.
- 2) Assume suitable data wherever necessary.
- 3) Figures to the right indicate full marks.

Q.1 Solve the following questions.

Marks Bloom's  
Level

- a) Define Project Management. Explain various parties involved in construction project.

07 L<sub>2</sub> CO1

OR

- a) Define WBS. Explain in detail process of WBS.

07 L<sub>2</sub> CO1

- b) Draw the network for following. Compute EST, EFT, LST and LFT.

08 L<sub>4</sub> CO2

Activity	1-2	2-3	2-4	3-5	4-5	5-6
Duration	6	5	14	12	10	7

OR

**ESE**

Page 1/3

- b) The network for a certain project is shown in fig. Determine the expected time for each of the path. Which path is critical?

08

L4

CO2

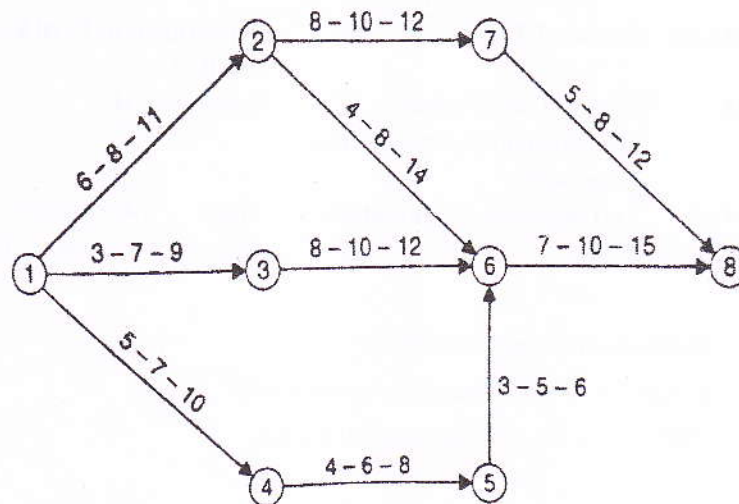


Fig. Project Network

Q.2 Solve the following questions

- a) Define BIM? Explain role of BIM in project management.

07

L2

CO3

OR

- a) Explain statistical quality control with its characteristics.

07

L2

CO3

- b) State & Explain various factors used in engineering economy?

08

L4

CO4

OR

- b) The details of two construction machines are given below. Make a comparison if the rate of interest is 12% per year. Use present worth method.

08

L4

CO4

	Machine A	Machine B
Initial Cost (Rs.)	100000	170000
Annual operation and maintenance cost (Rs.)	60000	50000
Salvage value (Rs.)	10000	20000
Service life (years)	10	10

**ESE**

Page 2/3

<b>Q.3 Solve any Two</b>			
a) Explain the following:	08	L <sub>2</sub>	CO1
1) Role of client and contractor			
2) Phases of project management			
b) Explain the following terms:	08	L <sub>2</sub>	CO2
1) Types of float			
2) Fulkerson's rule			
c) Explain the following:	08	L <sub>2</sub>	CO3
1) Lean Construction			
2) Role of Inspection			
d) Explain the following:	08	L <sub>2</sub>	CO4
1) Equivalence			
2) Cash flow diagram			
<b>Q.4 Solve any Two</b>			
a) Explain the concept of journal? Give standard format of journal entry	09	L <sub>2</sub>	CO5
b) Discuss trial balance with its objectives.	09	L <sub>2</sub>	CO5
c) Explain balance sheet in detail with its characteristics.	09	L <sub>2</sub>	CO5
<b>Q.5 Solve any Two</b>			
a) Explain cost sheet and its preparation.	09	L <sub>2</sub>	CO6
b) Discuss methods of costing and explain any four.	09	L <sub>2</sub>	CO6
c) Explain breakeven analysis in detail with sketch.	09	L <sub>2</sub>	CO6
<b>Q.6 Solve any Three</b>			
a) Explain types of accounting.	06	L <sub>2</sub>	CO5
b) Explain in detail trading account.	06	L <sub>2</sub>	CO5
c) Discuss various objectives of cost accounting.	06	L <sub>2</sub>	CO6
d) Explain uniform costing and marginal costing in detail.	06	L <sub>2</sub>	CO6

\*\*\*\*\*

**ESE**

Page 3/3