



Sanjay Ghodawat University, Kolhapur

2018-19

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

EXM/P/09/01

Year and Program: 2018-19

School of Technology

Department of Civil Engg. (M. Tech)

Course Code: CEM 504

Course Title: Construction  
Project Management

Semester – II

Day and Date

Wednesday 22<sup>nd</sup> May 2019

End Semester Examination  
(ESE)

Time: Max Marks: 100

2:30 PM to 5:30 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	CO
a)	Explain phases of project throughout life neat sketch	10	L <sub>2</sub>	CO1
OR				
a)	Explain different stake holders involved in construction project	10	L <sub>2</sub>	CO1
Q.2	Solve the following questions			
a)	Illustrate importance project management in construction	10	L <sub>3</sub>	CO2
OR				
a)	Explain turnkey approach of construction with suitable example	10	L <sub>3</sub>	CO3
Q.3	Solve the following questions			
a)	Discuss design and construction relation	10	L <sub>3</sub>	CO3
OR				
a)	Explain technical feasibility in construction	10	L <sub>3</sub>	CO3
Q.4	Solve the following questions			
a)	Discuss factors affecting job site productivity	10	L <sub>4</sub>	CO4
OR.				
a)	Write a short note on role of material management in construction	10	L <sub>4</sub>	CO4

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**Q.5 Solve any three the following questions**

- |   |    |    |     |
|---|----|----|-----|
| a) Discuss various cost associated with construction                | 10 | L4 | CO5 |
| b) List out different method of estimation explain any one in brief | 10 | L3 | CO5 |
| c) How operating cost affect total project estimation?              | 10 | L4 | CO5 |
| d) How the bid price is determined?                                 | 10 | L3 | CO5 |

**Q.6 Solve any the following questions**

- |  |    |    |     |
|--|----|----|-----|
| a) Discuss working capital cycle with suitable example | 10 | L4 | CO6 |
|--|----|----|-----|

**OR**

- |  |    |    |     |
|--|----|----|-----|
| a) Write short note on capital budgeting | 10 | L4 | CO6 |
|--|----|----|-----|

- |   |    |    |     |
|---|----|----|-----|
| b) A company is trying to decide to purchase machine from following two alternatives Suggest best option for purchasing machine on basis of Present value method Assume interest rate 12 % per year | 10 | L5 | CO6 |
|---|----|----|-----|

	Option A	Option B
Initial Cost	2,60,000	3,60,000
AOC	8000	3000
Annual Labour Cost	35000	45000
Extra maintenance cost ant end of 5 <sup>th</sup> year	25,000	35,000
Salvage Value	45000	55000
Life(years)	9	9

- |  |    |    |     |
|--|----|----|-----|
| c) Calculate payback period for solar electricity unit on construction site having cost of 75, 000 which save 2500 unit per year .Assume rate of electricity 7 Rs/ unit rate of interest is 4% | 10 | L5 | CO6 |
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