

M.E. First Semester (Civil Engineering (Construction Engineering & Management)) (CGS)  
**13062 : Construction Project Planning & Management : 1 CM 01**

P. Pages : 2

Time : Three Hours



**AU - 3343**

Max. Marks : 80

- Notes :
1. Answer **three** question from Section A and **three** question from Section B.
  2. Due credit will be given to neatness and adequate dimensions.
  3. Assume suitable data wherever necessary.
  4. Illustrate your answer necessary with the help of neat sketches.
  5. Use of pen Blue/Black ink/refill only for writing the answer book.

**SECTION – A**

1. a) Discuss importance of Construction Industry. **6**  
b) Enlist task related to Pre-Project phase. **7**

**OR**

2. a) Discuss important traits of project manager. **6**  
b) Discuss Ethical conducts. **7**
3. a) Discuss Evaluating alternatives. **6**  
b) Discuss pay back period and average annual rate of returns. **7**

**OR**

4. a) Discuss construction Economics. **6**  
b) Write step by step procedure of preparing preliminary estimate based on PAR. **7**
5. a) Explain master production scheduling. **7**  
b) Explain PERT with suitable examples. **7**

**OR**

6. a) Discuss phase out and transfers. **7**  
b) Explain network techniques advantages. **7**

**SECTION – B**

7. a) Explain project monitoring and control systems. **6**  
b) Write steps involved in implementation of earned value method. **7**

**OR**

- |    |    |                                               |   |
|----|----|-----------------------------------------------|---|
| 8. | a) | Explain project updating and project control. | 6 |
|    | b) | Write a note on S-Curve.                      | 7 |
| 9. | a) | Explain Resolution and Mechanism of disputes. | 6 |
|    | b) | Explain bidding models.                       | 7 |

**OR**

- |     |    |                                                                                   |   |
|-----|----|-----------------------------------------------------------------------------------|---|
| 10. | a) | What determination of optimum markup level.                                       | 6 |
|     | b) | What are common causes of a rise of claim.                                        | 7 |
| 11. | a) | Enlist various construction project management software. Explain any one of them. | 7 |
|     | b) | Explain theory of 3C's and Iron triangle.                                         | 7 |

**OR**

- |     |    |                                                                    |   |
|-----|----|--------------------------------------------------------------------|---|
| 12. | a) | Explain computer application in scheduling and resource levelling. | 7 |
|     | b) | Explain project performance attributes.                            | 7 |

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