

B.E. Civil Engineering Fifth Semester  
**CE504 - Project Management**

P. Pages : 2

Time : Three Hours



**GUG/W/18/1603**

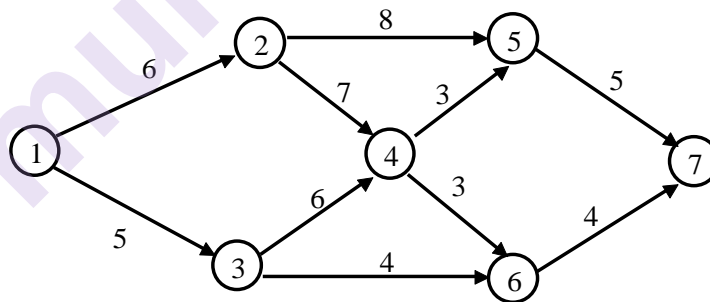
Max. Marks : 80

- Notes :
1. All questions carry equal marks and compulsory.
  2. Due credit will be given to neatness and adequate dimensions.
  3. Assume suitable data wherever necessary.
  4. Diagrams and Chemical equation should be given wherever necessary.
  5. Retain the construction lines.
  6. Illustrate your answers wherever necessary with the help of neat sketches.
  7. Use of slide rule, Logarithmic tables, Steam tables, Mollier's chart, Drawing instruments, Thermodynamic tables for moist air, Psychrometric charts and Refrigeration charts is permitted.

1. a) State & explain the principles of engineering economics. 8  
b) What do you understand by elasticity of demand? Discuss various factors affecting it. 8

**OR**

2. a) Discuss the factors which affects localization of industry. 8  
b) Enlist various types of market. Discuss any one in detail. 8
3. a) For the following network, find the critical path, Also determine total float & duration in weeks. 10



- b) Differentiate between PERT & CPM. 6

**OR**

4. a) Describe the general concepts of wave study. 8  
b) Describe the general principles of quality control. 8
5. Write a note on:  
i) Safety during excavation. 4  
ii) Safety audit. 4

- iii) Safety education & training. 4
- iv) Fire protection. 4

**OR**

- 6. a) Define personnel management. What are the functions of personnel management? 8
- b) What are the general principles of the quality control? Explain. 8
- 7. a) How are construction accidents classified? What are the measures to prevent the accidents? 8
- b) Discuss the function of store. 8

**OR**

- 8. a) Describe management information system. What are the characteristics of a good MIS. 8
- b) Discuss the function of store. 8
- 9. a) What is Economic Order Quantity (EOQ). Explain EOQ with help of graph. 8
- b) Explain the ABC classification of store inventory. List the Basic principles in ABC analysis. 8

**OR**

- 10. Explain the following:- 16
  - i) Power shovel.
  - ii) Batch mixing plant.
  - iii) Drag line.
  - iv) Equipment required for material transporting & handling.

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