

**Total number of printed pages – 4**      **B. Arch**  
**PCAR 8404**

**Eighth Semester Examination – 2008**

**CONSTRUCTION AND PROJECT MANAGEMENT**

**Full Marks – 70**

**Time : 3 Hours**



*Answer Question No. 1 which is compulsory and any **five** from the rest.*

*The figures in the right-hand margin indicate marks.*

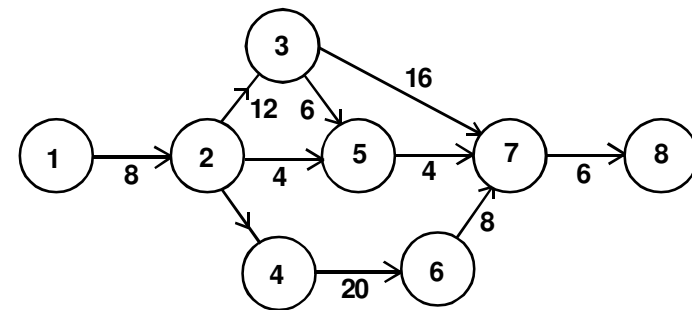


1. Answer the following questions :      2 × 10

- (a) What is a turn-key contract ?
- (b) What is the importance of time-cost analysis ?
- (c) What do you understand by heavy construction ? Give few examples.

- (d) What are the duties and responsibilities of a contractor ?
- (e) Classify the Civil Engineering drawings.
- (f) What is briefing stage in a construction project ?
- (g) What is the importance of Bar Charts ?
- (h) What is PERT ?
- (i) What are the advantages of scheduling ?
- (j) What is a critical path ?

Identify the critical path in the network shown in the figure below and determine the project completion time.      10



(Duration in weeks)

**P.T.O.**

**PCAR 8404**

**2**

**Contd.**

3. What is the significance of construction management ? What are the objectives and functions of construction management ? 10
4. Describe the procedure for determining optimum cost and optimum completion time for a project using CPM. 10
5. Describe the following stages in planning in detail : 10
  - (a) Pre-Tender Stage
  - (b) Contract Stage.
6. Explain the purpose and activities of different stages in construction. Differentiate between
  - (a) Construction stage and commissioning stage
  - (b) Contract and Tender. 10
7. Explain the merits and demerits of the following types of contracts : 10
  - (a) Lumpsum Contract
  - (b) Schedule Contract
  - (c) Cost plus percentage of cost contract
  - (d) Negotiated Contract
  - (e) Turn key Contract.

8. (a) What is (a) Pessimistic Time Estimate ( $t_p$ ), (b) Optimistic Time Estimate ( $t_o$ ), (c) Most likely Time Estimate ( $t_e$ ).  
State the relation of the above time estimates with the expected time of the activity ( $t_e$ ). 5
- (b) Define the following terms : 5
  - (i) Activity
  - (ii) Event
  - (iii) Network.

*HowToExam.com*

**PECS 3414**

**5**

**P.T.O.**

**PECS 3414**

**6**

**Contd.**