

M.Tech. Structural Engineering & Construction (CBCS Pattern) Semester-II
PSES24 - Advanced Construction Management & Technology

P. Pages : 1

Time : Three Hours



GUG/W/24/11016

Max. Marks : 70

- Notes :
1. All questions are compulsory.
 2. Answer **any five** questions.
 3. Due credit will be given to neatness and adequate dimensions.
 4. Assume suitable data wherever necessary.
 5. Retain the construction lines.
 6. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) What do you understand by Project Management. Explain. **4**
- b) The network for a certain project is shown in fig. 1. Determine the slack for each event by CPM. **10**

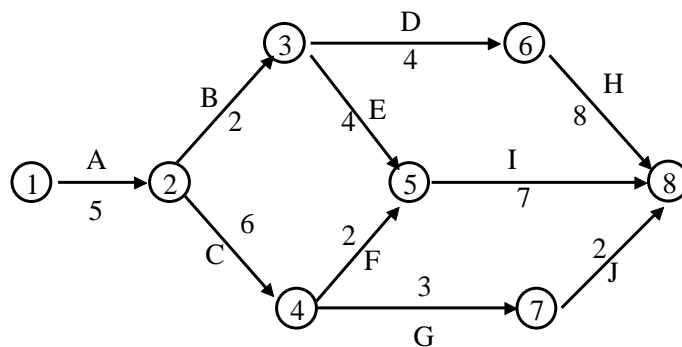


Fig.1

2. Explain in details the selection of equipments for batching, mixing and transporting the ready mix concrete project? List down the factors which affects the outputs of above. **14**
3. a) What is method statement? Write method statement for precast boundary wall works? **6**
- b) Write step by step process of method statement for nuclear power plant. **8**
4. Explain with help of flowchart the major activity like excavation, concreting, steel fabrication and erection of composite structure of hydro project and nuclear power plant. **14**
5. a) Write down a short note on soil distribution in India. **7**
- b) Explain in detail what quality controls are to be taken for field compaction procedure and sand drains. **7**
6. a) How would you design the load carried by framework? **7**
- b) Explain modular shuttering with neat sketch? **7**
