

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

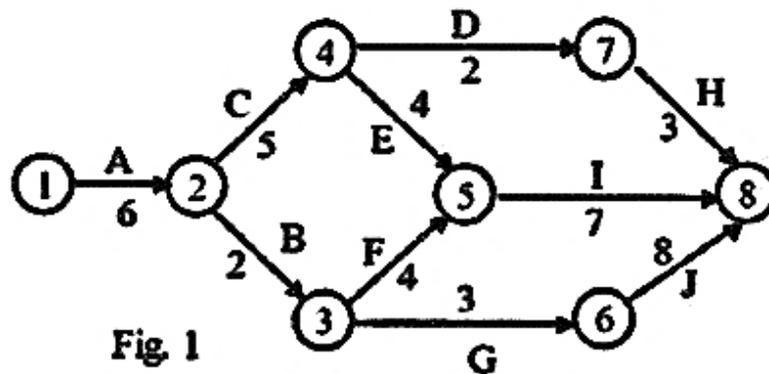
P. Pages : 1
 Time : Three Hours



GUG/S/23/11016
 Max. Marks : 70

- Notes :
1. All questions carry equal marks.
 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. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) Prepare organization structure for a project site. 7
 b) Explain Network techniques, CPM, PERT and Prima Vera. 7
2. The network for certain project is shown in fig. 1. Determine the slack for each event by CPM/PERT. 14



3. a) Explain the Methods for major activities like excavation, concreting, steel fabrication and erection for earthen dams. 7
 b) Explain the methods of Underwater concreting? 7
4. a) Explain the methodology for the construction of Tunnel using Tunnel Boring machine? 7
 b) Explain the methodology for construction of a chimney using slip form method. 7
5. Explain in details various techniques for improving rock stability & quality. 14
6. a) Why formwork are important in the construction? 7
 b) Differentiate between Traditional formwork system and Modern Formwork system. 7
