

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

P. Pages : 1

Time : Three Hours



GUG/S/25/11016

Max. Marks : 70

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- Notes :
1. All questions carry equal marks.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Illustrate your answers wherever necessary with the help of neat sketches.
 4. Solve **any five**.

1. a) Explain Network techniques, CPM, PERT and Prima Vera. 7
b) What are the different types of floats involved in CPM? 7
2. a) Explain Procedure adopted for concreting in different weather condition. 7
b) Prepare organization structure for a project site 7
3. a) Explain in detail procedure to write down method statement for construction project Earthen dam. 7
b) Explain the methods of Underwater concreting? 7
4. a) Explain in detail how launching of deck of bridge is done. 7
b) Explain the methodology for construction of a chimney using slip form method. 7
5. a) Explain in detail the behaviour of soil on reinforcing with geotextiles. 7
b) Explain in details various techniques for improving rock stability. 7
6. a) Why formworks are important in the construction? 7
b) Describe the various safety measures taken in the construction of formwork. 7
7. a) Differentiate between Traditional formwork system and Modern Formwork system. 7
b) Explain compaction grouting. To which type of soils is it applicable. What are its advantages and disadvantage? 7
