

Roll No.....

CE-802

B.E. VIII Semester

Examination, June 2014

Construction Planning And Management

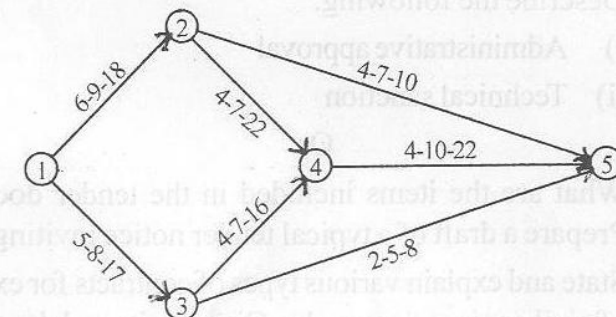
Time : Three Hours

Maximum Marks : 70

Note : Attempt all questions. All questions carry equal marks.
Assume suitable data if necessary.

1. a) How does the PERT differ from CPM? Describe time estimates used in PERT.
- b) For the network shown in the ahead figure, the three time estimates in days for each activity are indicated. Determine the critical path based on the concepts of slack and the probability of completing the project in 36 days. The non-exceedance probability (Pr) for various values of the probability factor (Z) is as follows:

Z	1.0	1.1	1.2	1.3
Pr %	84.13	86.43	88.49	90.32



Or

2. a) Draw a neat sketch of job layout for construction of multistoreyed building. Explain the different parts.
b) What types of personal management problems are likely in construction projects? How effectively these can be solved with available management tools?
3. a) While estimating the cost of owning and operating an equipment, prior to purchase. Explain the various cost heads that are considered. Explain the method of finding, owning and operating cost of an equipment.
b) Explain in detail the following construction equipments:
(i) Pile driving (ii) Compaction
4. Describe the following equipments with their outputs:
a) Concrete mixers
b) Cranes
c) Conveyors
d) Concrete vibrators.
5. a) What is tender notice? Explain the procedure of awarding contract step by step.
b) Describe the following:
i) Administrative approval
ii) Technical sanction

Or

6. a) What are the items included in the tender document? Prepare a draft of a typical tender notice inviting tender.
b) State and explain various types of contracts for execution of civil engineering works. Give merits and demerits for each of them.

7. a) Write detailed specification for the following items:
i) M-20 concrete (P.C.C)
ii) Fixing of G.I. sheet on roof.
b) How are shortage of T and P article adjusted? Draw the forms used for annual T and P register.

Or

8. a) Write detailed specification of the following:
i) Concreting in column
ii) First class masonry work.
b) What is a "Measurement Book"? How are the measurement recorded in it? What important points will you be in mind while recording the observations in the measurement book?
9. a) What is the necessity of an organisation in construction industry? Explain the various principle of organisation.
b) What are the cause of construction accidents? Classify construction accidents and list out safety equipment.

Or

10. a) State the merits and demerits of a functional organisation for a medium construction project. Explain the importance of leadership in managing a construction project.
b) Explain the provisions of the minimum wages Act 1945 (as amended in 1986) and the contract labour Act, 1970.
