

Please check that this question paper contains 9 questions and 2 printed pages within first ten minutes.

EVENING

[Total No. of Questions: 09]

31 DEC 2022

[Total No. of Pages:2]

Uni. Roll No.

Program: B.Tech. (Batch 2018 onward)

Semester: 5th

Name of Subject: Construction Engineering & Management

Subject Code: PCCE-111

Paper ID: 16388

Scientific calculator is Allowed

Detail of allowed codes/charts/tables etc.: Not required

Time Allowed: 03 Hours

Max. Marks: 60

NOTE:

- 1) Parts A and B are compulsory
- 2) Part-C has Two Questions Q8 and Q9. Both are compulsory, but with internal choice
- 3) Any missing data may be assumed appropriately

Part – A

[Marks: 02 each]

Q1.

- a) What is construction engineering?
- b) Explain the classification of construction works.
- c) What are the resources of construction industry?
- d) What are the characteristics of a construction project?
- e) Explain site layout including enabling structures.
- f) What is difference between activity and event.

Part – B

[Marks: 04 each]

- Q2.** What are the requirements fulfilled by good formwork?
- Q3.** What are the applications of precast concrete work?
- Q4.** Explain the various types of equipment required for earthmoving.
- Q5.** What are the common causes of time and cost overruns and corrective measures?
- Q6.** What is basics of statistical quality control?
- Q7.** Explain the common contract clauses.

EVENING

31 DEC 2022

Part – C

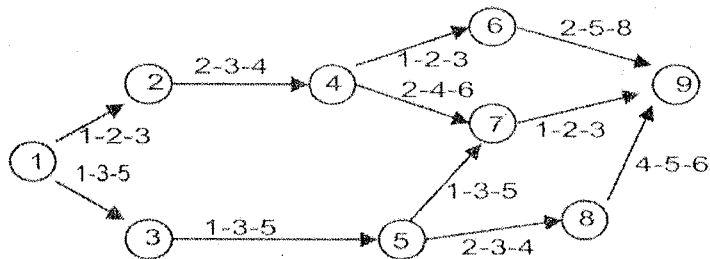
[Marks: 12 each]

Q8. Explain the application of building information modelling (BIM) in project management.

OR

Explain dispute resolution methods in construction industry

Q9. Find (a) Earliest expected time (b) Latest allowable occurrence time (c) critical path for the following network.



OR

Calculate the probability of completion in 12 days.

Normal deviate	-3	-2	-1	0	1	2	3
Probability (%)	0.1	2.3	15.9	50	84.1	97.7	99.9
