

Roll No:

Total No. of Questions : 09]

[Total No. of Pages :02

Paper ID [CE308]

(Please fill this Paper ID in OMR Sheet)

B.Tech. (Sem. - 6th)

PROFESSIONAL PRACTICE (CE - 308)

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

Section - A

Q1)

(10 × 2 = 20)

- a) Name any three methods used to estimate buildings.
- b) In one stack, how many bags of cement you recommend?
- c) Define pitch of roof.
- d) Write any two purposes of rate analysis.
- e) What is Technical sanction?
- f) What is Tender notice?
- g) Write the importance of measurement book.
- h) Write two powers of Arbitrator.
- i) Explain Imprest.
- j) Differentiate between General specifications and special specifications.

Section - B

(4 × 5 = 20)

Q2) An octagonal RCC (1: 2: 4) column having 52 cm internal and 60cm external dia is reinforced with 8-32 mm diameter bars. Helical reinforcement is 10 mm diameter at 100 mm C/C. Foundation for this column is 2.5 m × 2.5 m in which 16 mm diameter bars at 150 mm C/C are provided. The depth of

foundation is 1 m and in addition, 80 mm lean concrete (1: 4: 8) base is provided. The height of column is 3.5 m. Take weight of 10 mm, 16 mm & 32 mm diameter bars as 0.62 kg, 1.58 kg and 6.31 kg per m respectively. Prepare a bill for payment for the column assuming prevalent rates.

- Q3)** Prepare an analysis of rate for plain cement concrete 1: 2: 4 including mixing, laying, consolidating and curing.
- Q4)** Give specifications for (any two):
- Earthwork in filling.
 - First class brickwork.
 - Lime terracing.
- Q5)** What is contract document? What does it consists of? What are various clauses in condition of contract.
- Q6)** Discuss different kinds of arbitration according to Arbitration Act. What are the advantages of arbitrations over a court decision.

Section - C

(2 × 10 = 20)

- Q7)** Prepare a preliminary estimate of a framed four storied office building having carpet area of 300 m² for each floor. Assume areas occupied by corridor, varandah, staircase etc as 25% of built up area and by walls and columns as 10% of built up area. Adopt current rates.
- Q8)** What are characteristics of Mass Diagram? Write the steps to be followed for construction of mass diagram.
- Q9)** Write short notes on:
- Site Plan.
 - Temporary Advance.
 - Muster Roll.