

Roll No. 

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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(CE) (2011 Onwards) (Sem.-6)

**PROFESSIONAL PRACTICE**

Subject Code : BTCE-605

Paper ID : [A2292]

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.
4. Assume any data suitably.

**SECTION-A****1. Write briefly :**

- a) Different types of plans used in civil engineering.
- b) Methods of preparing estimates.
- c) Special specifications.
- d) Plinth area estimate.
- e) Muster roll.
- f) Lump sump contract.
- g) Importance of tender fee, earnest money deposit and security deposit.
- h) Write any two purposes of rate analysis.
- i) Write two powers of arbitrator.
- j) Write short note on contingencies.

**SECTION-B**

2. Discuss in detail the general specifications for a first class building.
3. Classify the contracts. Explain the provisions and limitations of any two of them.
4. Define contract. List different types of contracts and explain percent rate contract.
5. Write short note on material at site (MAS) account and muster roll.
6. Define the following terms :
  - a) Measurement book
  - b) Earnest money

**SECTION-C**

7. Calculate the cost of transportation by trucks for Jalandhar soling (15 cm thick) and inner coat (10 cm thick) for a new road 18 km long, width of metalling is 7.5 m. Assume the quarry to be in km 1 of the section, carrying capacity of truck is 8 cu.m. and transport charge including loading and unloading being :

1st km	:	Rs. 50/cu.m/km
2nd and 3rd km	:	Rs. 35/cu.m/km
4th and 5th km	:	Rs. 25/cu.m/km
6th to 10th km	:	Rs. 20/cu.m/km
11th to 20th km	:	Rs. 10/cu.m/km

The rate of stacking by the road side is Rs. 25.00/cu.m

8. Calculate following :
  - a) No. of bricks required for 1 cu.m brickwork.
  - b) No. of cement bags required for 1 cu.m brickwork in cement mortar 1:4.
  - c) Quantity of sand for 1 cu.m PCC in cement mortar 1:1.5:3.
9. Discuss different kinds of arbitration according to Arbitration Act. What are the advantages of arbitrations over a court decision?