

Dec.-22-1364

MCE-105(E) (Construction Costing & Financial Technology)

M.Tech. 1st (CE) (CBCS)

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all by selecting one from each of the section A, B, C and D. Section E is compulsory.

SECTION - A

1. A room 7m × 6m wide have a flat roof. There is one T-beam in the centre (cross section below the slab 30cm × 50cm) and the slab is 180mm thick. Estimate the quantity of iron bars required for reinforcement (for the T-beam only) from the data given below: -

Main bars- 9Nos. 20mm dia. In 2 rows of 4 each (all 4 in the bottom being straight and other bent)

Stirrups- 10mm dia. And 15cm centre to centre throughout

Anchor bars-2 Nos. 18mm dia. (10)

2. What is cost control? Describe method of cost forecasting. (10)

SECTION - B

3. What is cash flow statements? Describe cash flow statements with suitable example. (10)
4. Explain cash outflow during contract period with suitable example. (10)

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SECTION - C

5. What are the types of tenders? Explain e-tendering in detail. (10)
6. What is running payment? Explain with suitable example. (10)

SECTION - D

7. What is standardization in material management? Explain codification in detail. (10)
8. What is the difference between store record and store accounting? Explain store management. (10)

SECTION - E

9. Attempt all the following:
- (a) What is BBS?
 - (b) What is cost forecasting?
 - (c) What is inventory control?
 - (d) What is cash inflow?
 - (e) What is tender document?
 - (f) What is final payment?
 - (g) What is substitution in material management?
 - (h) What is ABC analysis?
 - (i) What is receipt in inventory control?
 - (j) What is stores accounting? (10×2=20)