



Printed Pages : 3

CE – 601

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 0026

Roll No.

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B. Tech.

(SEM. VI) EXAMINATION, 2006-07

ESTIMATION & EVALUATION

Time : 2 Hours]

[Total Marks : 50

- Note :*
- (1) Attempt **all** questions*
 - (2) Any missing data may be suitably assumed.*

1 Attempt any **four** parts of the following : **3.5×4=14**

- (a) What are the aim and objectives of preparing an 'Estimate'?
- (b) Distinguish between Plinth area estimate and Cube rate estimate.
- (c) Enumerate any five general items of work and mention their units of measurement.
- (d) Calculate the quantity of cement concrete used in the lintel, for a door of width 1.20m. Also calculate the quantity of steel in this lintel.
- (e) Calculate the earthwork in excavation of foundation for a room of internal size 4×5m with 300 mm thick walls, the width and depth of foundation being 700 mm and 800 mm respectively.
- (f) How do you account for deductions for openings in the wall?

2 Attempt any **four** parts of the following : **3×4=12**

Calculate the quantities of the following items of a single storeyed single room of size 5m × 5m with wall thickness 300 mm and the height 3.5 m. There are two doors of size 1m × 2 m and one window of size 1 m × 1.2 m in the room.

- (a) Exterior plastering with 12 mm thickness
- (b) Interior white washing
- (c) Ist class brick work in superstructure
- (d) 25 mm thick cement concrete flooring
- (e) Sal wood work in doors and window frames (125mm × 63 mm)
- (f) R.C.C. work in 120 mm thick roof slab.

3 Attempt any **two** parts of the following : **6×2=12**

- (a) What do you understand by “analysis of rates”? Calculate the rate of M20 grade concrete used in slabs of a single storeyed building.
- (b) What is a “work charged establishment? Discuss the importance with respect to regular establishment.
- (c) Discuss the role of CPWD in carrying out construction works. Mention important duties of Assistant Engineer in Building works.

4 Attempt any **two** parts of the following : **6×2=12**

- (a) What are the main features of PWD system of accounts? Explain the terms “debit and credit”, imprest and temporary advance as practised in PW accounts.
 - (b) Briefly discuss the relative merits and demerits of different methods of valuation.
 - (c) What do you mean by the standard rent, freehold and leasehold properties? Discuss in detail.
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