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 : \(3.5 \times 4 = 14\)
   
   (a) What are the aim and objectives of preapring 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?

V-0026] 1 [Contd...
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: **6x2=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.