

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 03

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**Q1. Write briefly :**

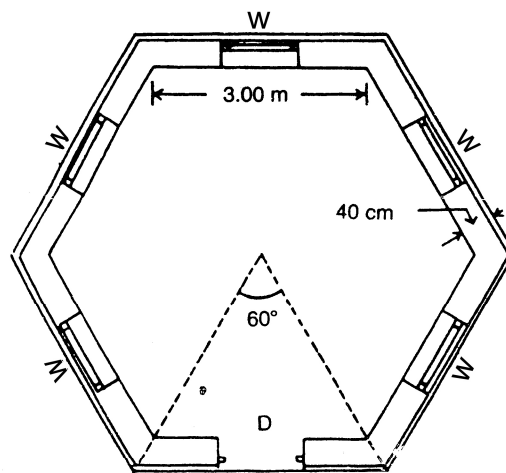
- a) What is meant by 'Lay out plan'?
- b) What is meant by item rate contract?
- c) What is a 'petty work'? How does it differ from minor work?
- d) List any two approximate methods of building estimation.
- e) What is meant by schedule of rates?
- f) What are 'transfer entries'?
- g) How is material at site account differ from stock account?
- h) Differentiate between 'lead and lift'.
- i) What is a 'cash book'?
- j) What is meant by physical verification of stores?

SECTION-B

- Q2 What is a lump sum contract? What are its essential characteristics? How are the payments under such contracts adjusted?
- Q3 Calculate the quantity of earth work for 500 m length of a road in a uniform ground the heights of banks at the two ends being 1.00 m and 1.50 m. The formation width is 10 m and side slopes 2 : 1 (H : V). Assume there is no transverse slope.
- Q4 List any five checks applied to muster rolls.
- Q5 What documents are submitted by the SDE to divisional office every month? What action is taken on these in the divisional office?
- Q6 Explain the major items of construction work which require quality control.

SECTION-C

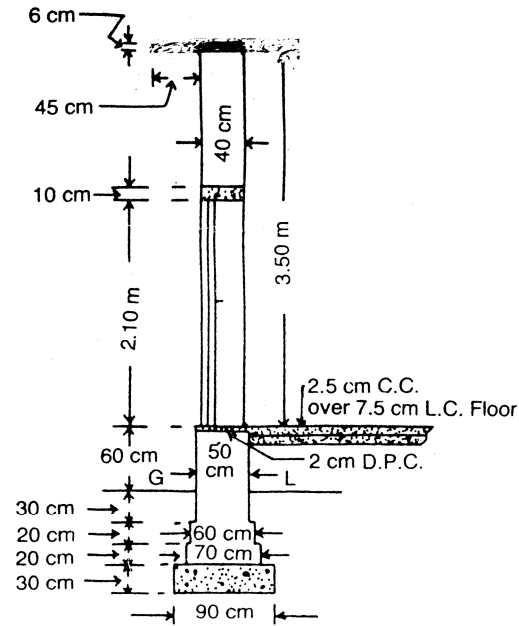
- Q7 From the plan and part cross section of the hexagonal compound wall given in the figure below, estimate the quantities of :
- Earth work in foundation
 - Lime concrete foundation
 - I Class brick work in foundation and plinth in lime mortar
 - I class brick work in superstructure in lime mortar
 - 12 mm cement plastering 1 : 6 inside and outside walls. Also, prepare an Abstract of the quantities



SCHEDULES :-

D-120 cm × 210 cm (1.20 m × 2.10 m)

W-110 cm × 150 cm (1.10 m × 1.50 m)



CROSS SECTION OF WALL THROUGH DOOR

- Q8 Prepare an analysis of rates for an RCC Column work excluding cost of steel including centering, shuttering, bending and binding. Use Concrete mix 1:3:6. Use any rate (CPWD/PPWD) as applicable. Calculate the rate per m^3 . Give the specifications.
- Q9 Differentiate clearly between the following :
- Piece work agreement and work order
 - General and retailed specification
 - Road metal account and material at site
 - Technical sanction and administrative approval