

**B.ARCH. SEM – VI (CBCS – 2015 COURSE) : SUMMER - 2018**  
**SUBJECT : ESTIMATION AND COSTING**

Day : **Monday**  
Date : **30/04/2018**

**S-2018-3313**

Time : **10.00 AM TO 12.00 PM**  
Max. Marks : 60

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**N. B. :**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Use of non-programmable calculator is **ALLOWED**.
  - 4) Answers to both the sections should be written in **SEPARATE** answer books.
  - 5) Assume suitable data, if necessary.
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**SECTION – I**

- Q. 1** Analyze the rate for **ANY TWO** items: (10)
- a) Brick work 230 mm thick in CM 1:6 Quantity – 75 cum
  - b) R.C.C. floor slab (1:1:5:3) machine mixed excluding reinforcement and framework - quantity 25 cum.
  - c) 12 mm thick sand faced plaster in CM 1:4 Quantity – 175 sqm.
- Q. 2** Write short notes on **ANY TWO** of the following: (10)
- a) Schedule of Rates
  - b) Importance of overhead charges
  - c) Bill of Quantities
- Q. 3** Define rate analysis. Why it is required to carry out rate analysis? Explain in brief factors affecting the rate. (10)

**OR**

Define labour rates and explain its types. Give five standard labour rates.

**SECTION – II**

- Q. 4** Write short notes on **ANY TWO** of the following: (10)
- a) Approximate estimate
  - b) Detailed estimate
  - c) Contingencies and work charged establishment
  - d) Purpose of estimate

**P. T. O.**

**Q. 5** State units of measurement **ANY FIVE:**

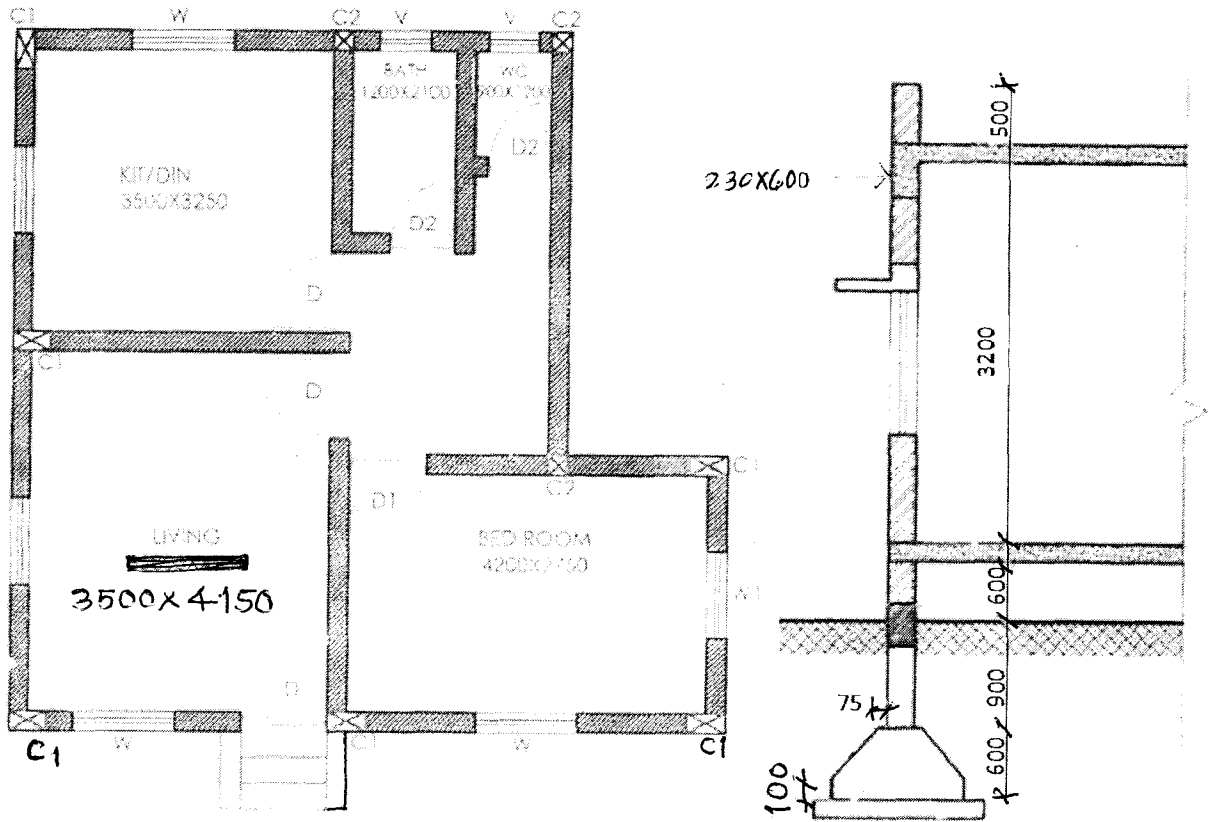
**(05)**

- a) R.C.C footing
- b) R.C.C. slab
- c) Glazed vitrified flooring
- d) T.W. railing
- e) Aluminum window
- f) Granite kitchen platform
- g) Bib cock

**Q. 6** Estimate the quantities for the following items from drawing in fig. in standard proforma of schedule of quantities **(ANY THREE)** **(15)**

- a) Brick masonry in CM 1:5 in superstructure
- b) 12 mm thick internal cement plaster in CM 1:4
- c) R.C.C. footing 1:15:3
- d) R.C.C. floor beam

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D-1000X2100

D2-800X2100

W-2000X1200

W1-1000X900

V-600X900

FOR ALL FOOTING -P.C.C.SIZE -1300X1300,

FOOTINGS 1000X1000

D-600,

d-150,

ALL FLR SLABS- 125 THK

ALL FLOOR BEAMS- ABOVE ALL 230 THKWALLS

-230X500,

ALL LINTELS-230X230 WITH BEARING 300MM,

C1-230X500MM,

C2-230X230