

**T. Y. B.ARCH. SEM – VI (2010 COURSE) : WINTER - 2017**  
**SUBJECT: QUANTITY SURVEYING & SPECIFICATION WRITING**

Day: **Saturday**  
Date: **11/11/2017**

Time: **2.00PM TO 05.00 PM**  
Max. Marks: 100

**W-2017-3256**

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate full marks.
- 3) Both the sections should be written in **SEPARATE** answer book.
- 4) Assume data if necessary.

**SECTION-I**

**Q.1** Work out the quantities for the following items of work based on the details **[30]**  
given in accompanying diagram (**ANY FIVE**)

- a** Excavation in hard murum for column footings
- b** RCC M 20 columns in ground floor
- c** Ceramic tile dado and flooring to toilet
- d** RCC lintels
- e** PCC subfloor base
- f** Oil bound distemper for walls and ceiling of bedroom.
- g** PCC coping to terrace parapet wall

Data

Footing size 1350mmx1350mm, D=500mm, d= 200mm

Bearing of lintels 300mm

RCC slab thickness 130mm

Internal brick wall 150mm

External brick wall 230mm

**Q.2** State the Unit of measurement (as per IS:1200) for the following items of work **[10]**

- a** RCC beams
- b** Excavation in soft soil
- c** Overhead water storage tank
- d** Stop cock
- e** GI pipe
- f** Asb cem sheet roofing
- g** 150mm thik brick wall
- h** Oil paint to doors
- i** Aluminum ventilators
- j** M.S. Grill
- k** External plaster
- l** Kitchen platform

**Q.3** Write short Notes on (**Any TWO**) **[10]**

- a** Supplementary and revised estimate
- b** Contingencies
- c** Task work
- d** Spot items

**P.T.O.**

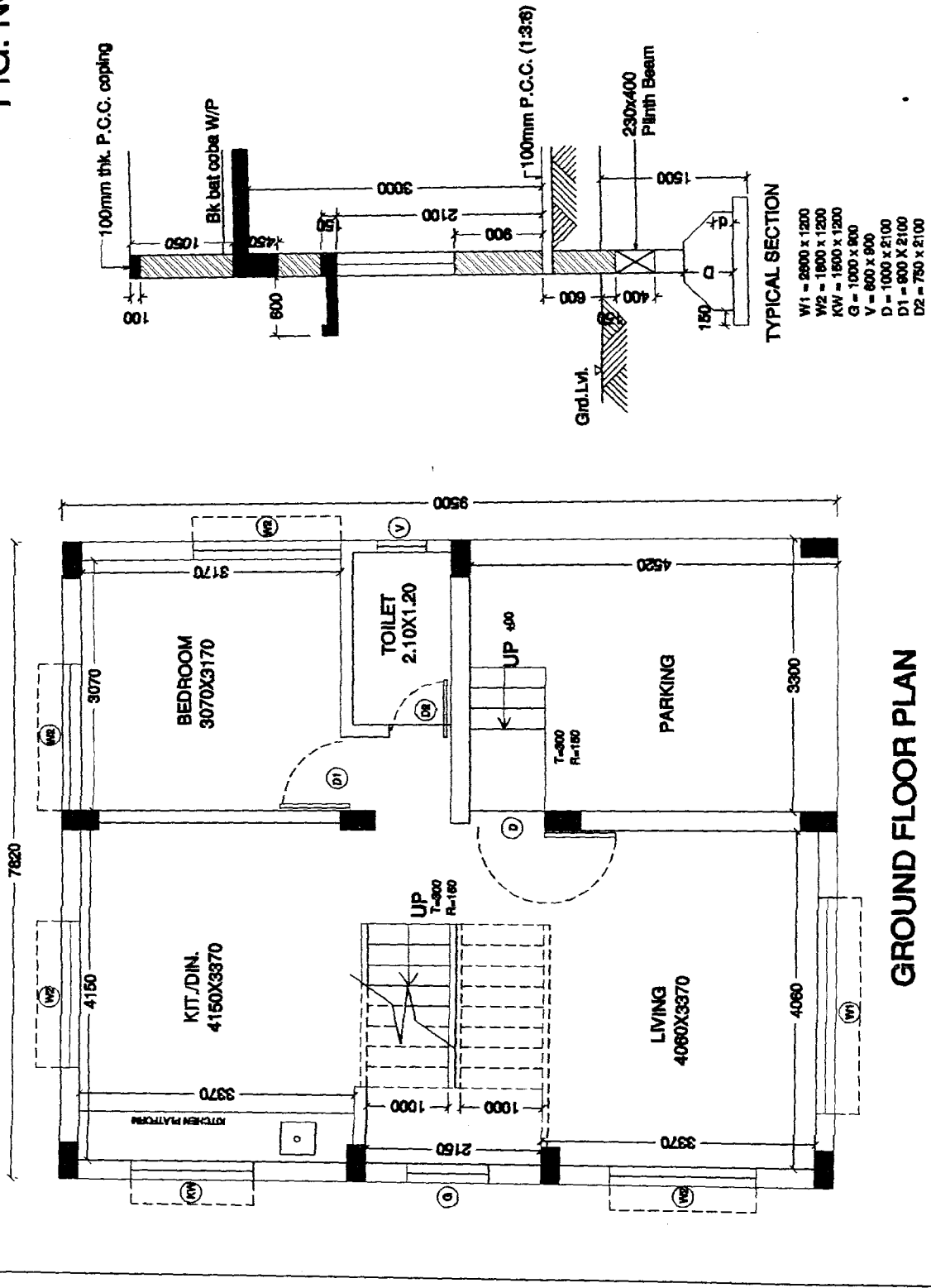
- Q.4** Work out analysis of rates for the following items of work (**Any TWO**) [10]
- a** PCC in foundation 1:3:6
  - b** External cement plaster cm 1:4 sand face finish
  - c** R.C.C beams (1:2:4)
  - d** 230th brick masonry in cm 1:6
- Data: Materials
- Cement: Rs. 300 per bag
  - Sand: Rs 2000 per cum
  - Bricks: Rs 7 each
  - Aggregate: Rs 1200 per cum
- Data: Labour
- Beam Rs. 700 per cum
  - Brickwork: Rs. 500 per cum
  - External Plastering: Rs 120 per sqm
  - PCC (1:4:8): Rs 700 per cum

### SECTION-II

- Q.5** What is specification? Describe briefly different types of specifications and elaborate any one. [10]
- Q.6** Write detailed specifications for the following items [10]
- a** Polished Shahabad stone for flooring
  - b** T.W frames for windows
  - c** Cement
  - d** Water for construction
- Q.7** Write brief specifications as mentioned in BOQ (**Any TWO**) [10]
- a** Excavation in soft soil
  - b** Vitrified tile flooring
  - c** R.C.C. work for beams
  - d** Disconnecting chamber
- Q.8** Specify following materials by trade/Manufacturer's names (**Any TEN**) [10]
- a** G.I. pipe
  - b** Lift
  - c** A.C.
  - d** W.H.B.
  - e** Cement paint
  - f** S.S. sink
  - g** Steel for truss
  - h** P.V.C. pipe for drainage
  - i** Cement
  - j** Electric switches
  - k** Fans
  - l** Door locks

\* \* \* \* \*

FIG. NO. 1



GROUND FLOOR PLAN