S.B. Roll No.

QUANTITY SURVEYING & VALUATION 6th Exam/Civil/5156/May'18

Duration: 3Hrs.

SECTION-A

15x1=15

M.Marks:75

- Q1. a) Fill in the blanks. i. The value of a property building after its working tenure without being dismantled is known as
 - ii. While analyzing the rates, contractor profit is added at the rate of.....%.
 - iii. The attendance of the laborers is recorded daily in.....
 - iv. While mixing cement mortar by volume, the volume of a cement bag is taken as...... cu.m.
 - v. In the analysis of rate the number of bricks taken into account per cubic meter is.....

b) State the unit of measurement for the following:-

vi. Electric Fitting D.P.C xi. vii. Cement Plaster xii. Steel doors and Windows viii. Supply of Bitumen/tar xiii. Supply of water closet(size specified) ix. Supply of varnish, oil xiv. Rain Water pipe x. Supply of bricks Distempering xv.

SECTION-B

Q2. Attempt any six questions.

- a. What are the various duties of quantity surveyor?
- b. What do you understand by estimate? Give the importance of estimate.
- c. What are the factors affecting the Analysis of rates.
- d. Find out the dry material required for 1cu.m cement concrete 1:4:8.
- e. Find out the dry material for 1cu.m brick masonry in cement sand mortar 1:4.
- Define valuation. Give the purpose of valuation. f.
- g. Calculate the value of year's purchase whose life is 20 years and the rate of interest is 6%. For sinking fund rate of interest is 5 %.
- h. Write a short note on scrap value, book value and outgoings.
- i. Define Contract? What are the essential elements of contracts?

SECTION-C

Attempt any three questions.

Q3. A RCC simply supported beam with following data

Clear Span=3.5m Bearing on Wall=200mm Thickness of wall=300mm Size of the beam=300mmX500mm Main Reinforcement=5-20mm ϕ HYSD bars (Three Bars up at I/7 from the inner face of support) Stirrups=8mm ϕ 2 legged @ 200mm c/c. Anchor Bars=2-12 φ mm

Calculate the total quantity of mild steel reinforcement also prepare the bar bending schedule.

Q4. Prepare a preliminary estimate of a building having plinth area equal to 2100 sq.m. Given that:-

- a. Plinth area rate Rs. 1600/- per sq.
- b. Extra for Architectural work 1% of the building cost.
- c. Extra for Electrical Installation (10%), + Water supply and sanitary installations (8%) = 10+8=18% of the building cost.
- d. Extra for other services- 10% of the building cost.
- e. Contingencies and supervision charges 10%.

6x5=30

3x10=30

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Rd	N.S. level
0	70.40
30	69.70
60	71.10
90	74.05
120	75.40
150	74.00

Q5. A short link road is to be constructed entirely in cutting at a uniform rising gradient 1 in 30. The N.S levels are given below:

If the formation level at Rd 0 is 65 meters, estimate the quantity of cutting for a formation width of 10 meters. The side slope is 2:1(Horizontal: vertical) and there is no cross slope. Also find out the cost of cutting @ Rs.450.00 cu m.

- Q6. Workout the analyses of rates for brick masonry cement mortars 1:4 in superstructure. Labour for 10cu.m brick masonry 8 brick layer @ Rs. 500/- per day, 15 mazdor @ Rs. 300/- , 2 Bhisti @ Rs. 250/- per day. Rate of material: cement bag Rs. 300/-, Sand Rs. 800/- per cu.m, Bricks 4000/- per thousand.
- **Q7.** Explain general specifications of first class building.
- Q8. Work out the quantity of following items from the given drawing:
 - a. Excavation for foundation
 - b. Cement concrete 1:6:18 in foundation
 - c. Brick masonry in cement mortor 1:7 in foundation and plinth
 - d. Brick masonry in 1:7 super structures.

