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END SEMESTER EXAMINATION 2020**Cv-602****6th sem****Estimating-II****(new syllabus)****Full marks-56****Time-2 hour 30 minute**

The figures in the margin indicate full marks for the questions

PART A

- 1 Fill up blanks with appropriate word: 1x5=5
- (a) The nos. of bag of cement required for 10cum brickwork 1:4 is-----
- (b) Part 1 of MR is also known as-----, where daily record of labour is maintained
- (c) The capacity of doing work by a skilled labour in the form of quantities of work done per day is known as----- of labour
- (d) -----is the average horizontal straight distance between the borrow pit and the place of spreading soil
- (e) The formal acceptance by the administrative department for incurring an expenditure on the work, is called-----
- 2 Choose the correct alternatives: 1x5=5
- (a) ----- is refundable after completion of Maintenance period of work .
 (i) Retention money (ii) Performance Guarantee
 (iii) Security deposit (iv) Earnest money)
- (b) The quantity of lime required for one coat of whitewashing of plastered surface of 100m² will be-----
 (i) 7.5 m³ (ii) 10 m³
 (iii) 12.5 m³ (iv) 15 m³
- (c) The volume of coarse aggregate required to make 100m³ of 1:2:4 concrete is -----
 (i) 84m³ (ii) 88m³
 (iii) 92m³ (iv) 96m³
- (d) The expenses of items which do not come under any regular head of items and cost of unforeseen items are called-----.
 (i) lump-sum (ii) contingencies
 (iii) overhead (iv) extras
- (e) The weight of 10 mm steel bar per meter length is-----
 (i) 0.22kg (ii) 0.32kg
 (iii) 0.42 kg (iv) 0.62 kg

PART B

- 3 (A) Analysis Rate per unit any two of following items. Assume current market Rate $4 \times 2 = 8$
- (a) Cement Concrete work 1:1.5: 3 with 40mm nominal size in foundation
- (b) 20 mm thick cement plastering 1:8 on brick work .
- (c) Half Brick wall with 1:6 cement mortar
- (B) Write down the detailed specification of Wood work for doors and windows. 4
- (C) Calculate the economical depth of digging of an irrigation canal from the following data: 4
- Bed width of canal=6m, top width of both the ban= 3m each
- Side slope in cutting=1:1, side slope in banking=1.5:1
- Full supply depth= 1m, Free Board= 0.6m
- (D) Define lead and lift. How lift is converted into horizontal distance? 4
- 4 (A) What is measurement book? How does an ordinary measurement book differ from a standard measurement book? 3
- (B) What are the common irregularities in the maintenance of Master Roll? 3
- (C) Differentiate between administrative approval and Technical Sanction. 3
- 5 (A) Work out the quantity of earthwork for 2500m length of a irrigation canal with the following data: 6
- Proposed bed level at chainage 0 = 137.30m Bed width = 4.0m
- Side slope in cutting = 1:1 Side slope in filling = 1.5:1
- Bank width on both side = 1.50m Depth (F.S.D) = 60cm
- Free Board = 45 cm Bed slope = 1 in 5000
- G. L is given below:
- | | | | | |
|-------------------|--------|--------|--------|--------|
| Chainage (m) | 0 | 500 | 1000 | 1500 |
| Ground Level (m) | 137.90 | 137.80 | 137.60 | 137.40 |
- (B) Calculate the quantity of earth work of an approach road for 300m length with the following data: 6
- Proposed formation level at chainage 0 = 149.20m Formation width = 8.0m
- Side slope in cutting = 1.5:1 Side slope in banking = 2:1
- Down word gradient = 1 in 200
- G. L is given below:
- | | | | | | |
|-------------------|--------|--------|--------|--------|--------|
| Chainage (m) | 0 | 50 | 100 | 150 | 200 |
| Ground Level (m) | 148.60 | 148.70 | 149.20 | 149.40 | 149.30 |
- (C) Define Contract and Tender. Differentiate between Lump sum contract and Schedule Contract. 5