

KERALA AGRICULTURAL UNIVERSITY
B.Tech (Agrl.Engg) 2017 Admission
7thSemester Final Examination

Cat. No. Ellw 4207

Marks: 50

Quantity Surveying and Valuation 3(2+1)

Time: 2 hours

I. Fill in the blanks (10×1=10)

1. The rates of various items of works to be used in the construction may be worked out by the
2. White washing is computed in
3. The value which a property can fetch when sold out in open market is called
4. The detailed estimate when the original sanctioned estimate is likely to exceed during the execution of work by more than 5% of total amount is the
5. The built up covered area of a building measured at floor level of any storey is the
6. An amount left at the end of the year after deducting all usual outgoings is
7. Constant percentage method is used to calculate
8. The area of shutter enclosed between adjacent rails of a door is the
9. The present day cost of an engineering structure is the
10. Standard size of a brick is

II. Write short notes (Answer any FIVE)

(5×2=10)

1. Scrap and salvage value
2. Administrative sanction and technical sanction
3. Valuation and Estimation
4. Depreciation and Obsolescence
5. Schedule of rates and Bar bending schedule
6. Preliminary and detailed estimate

III. Answer any FIVE of the following

(5×4=20)

1. Calculate quantity of materials required for M₂₀ concrete.
2. a) Discuss the purposes of valuation.
b) Explain the types of income.
3. Calculate the number and total weight of 6mm Φ two legged stirrups @ 200mm c/c in a beam of 3m length, 0.3m depth and 0.2m width. Assume a clear cover of 0.025m.
4. Explain the methods of calculating the depreciation.

5. What is analysis of rates? Also state the purpose of analysis of rates.
6. Discuss in detail about the methods of estimating the earthwork of irrigation channels.

IV. Answer any ONE of the following

(1×10=10)

1. a) Work out quantities of dry material and cost of material and labour for 10 cum brick masonry. Brick @ Rs 2700 / 1000nos, cement @ Rs 320/bag, sand @ Rs 800/cum, 8 mason @ Rs 700/day, 15 mazdoor @ Rs 350 day, 2 bhishti @ Rs 200/day.
b) Calculate the weight of 250 m long, 16mm Φ MS bars used for RCC work in a building.
2. Prepare the estimate of a gravel road for a length from 0km to 12km with the dimensions given in the fig below. Assume 50% extra while collecting the gravel for OMC compaction.

