## Mid-West University

## **Examinations Management Office**

Semester End Examinations 2081

Bachelor level/ B.E. Civil/ 5th Semester

Time: 3 hours

Subject: Estimating and Valuation (CE324)

Full Marks: 50 Pass Marks: 25

- Attempt all the questions Figures in the margin indicate full marks. Assume suitable values, with a stipulation, if necessary. Candidates are required to answer the questions in their own words as far as possible. 1. a) Define purpose of estimating. Mention various methods of taking of quantities. b) What is meant by approximate estimate? What documents should be supplied along with this estimate? What are the different methods of preliminary estimate? Explain them clearly. 2. a) How do you prepare the rate of an item? What are the different factors which affect the rate of an item? Explain with necessary example clearly. b) Calculate nos bricks, cement, sand and water for 1000 m<sup>2</sup> of a half brick thick partition [4] wall with (1:4) cement mortar. Assume necessary data if any. c) Calculate the quantities of materials required for 150m<sup>2</sup> of external cement plaster (1:6) on the stone wall [4] 3. a) Define Depreciation. Explain the various method of depreciation. 141 b) A Land Developer desires to purchases a piece of converted land measuring 7500000.00 Sqm in area. After developing this land for housing colony he wants to sell the plots at the rate of 350.00 per sqm. Which is prevailing in the vicinity and thus earn net profit 15 percent? Workout the maximum compensation which can be given to the owners whose land is to be acquired for the developing of the plots, assuming 45% are into be provided for roads, parks, drainage, and other public amenities. Colony improvement charges Rs 16.00 per sqm. ii.
- 4. Work out the quantity of earth work in cutting and filling of a part of a hill road as per data given below:

Engineers and architects fee for surveying and planning the colony 5% on the sale of

Transverse slope of ground = 1 in 6

Developer need 12% profit

Formation width of road = 7.5m

Side slope in cutting = 1:1.5

Side slope in filling = 2:1

plots.

iii.

iv.

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Distance	1500	2000	2500
RL of ground	1198.8	1200.20	1206,00
RL of formation	1199.20	1201.00	1205.00