

Roll No.

12023

MBA 2 Yr. 2nd Semester CBCS (2016-17)

Examination – May, 2019

HUMAN RESOURCE MANAGEMENT

Paper : 16IMG22C3

Time : Three Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : The question paper will have *two* Sections. Section A shall comprise 8 short questions carrying 2 marks each which are *compulsory*. Answer to each question should not exceed 50 words normally. Section B shall comprise 8 questions (*two* questions from each Unit). The students will be required to attempt *four* questions (*one* from each Unit). All questions will carry equal marks.

SECTION – A

1. Short answer type question :

(a) Enlist the objectives of human resource management.

(b) Explain the need of employee training.

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UNIT - I

2. A reinforced concrete continuous beam ABCD consists of three spans. The exterior span AB and CD are 6 meter each and the interior Span BC is 8 m. The characteristic dead load inclusive of self weight is 24 kN / m and characteristic imposed load is 30 kN / m. Draw the bending moment envelope for the ultimate condition. 20
3. Design an interior panel of a flat slab 5.2 m × 6.2 meter in size. The slab is supported on columns of 600 mm in diameter. The height of column above and below the slab is 4 meter. A finishing surface of 20 mm thickness is provided over the flat Slab. The floor of slab is likely to be used as a classroom. Use M20 and Fe 415. 20

UNIT - II

4. Two reinforced concrete column 800 mm × 800 mm and 600 mm × 600 mm in size carry axial load of 1500 kN and 1000 kN, respectively. These columns are placed 6 meter apart center to center. The safe bearing capacity of soil is 200 kN/m². Design beam and slab type rectangular combined footing. The cantilever projection available from the property line of column 1 is 1.72 meter. Use M20 and Fe 415. 20
5. Design a circular bunker to storey 20 tones of coal. Density of coal = 9 kN/m³. Angle of repose = 30 degree. Use limit state method of design. Use M20 and FE 415. Sketch the details of reinforcement in bunker, including cylindrical wall and Hopper bottom. Assume other data suitably. 20

UNIT – III

6. A prestressed concrete beam section is 250 mm wide and 300 mm deep. The initial prestressing force is 450 kN at an eccentricity of 60 mm. The beam has a span of 5.75 meter, and has to carry a superimposed load of 7.50 kN/m. Analyse the beam section for the stresses produce at the mid span before and after application of live load. Allow a loss of prestress of 15%. Take weight of concrete equal to 24 kN/me. 20
7. A four bay multistoried frame has the following details. Continuous beam ABCDE with $AB=BC=CD=DE=4$ meter. Height between floors = 4 meters; size of beams = 300 mm by 500 mm. size of column = 300 mm by 400 mm. Thickness of floor slabs = 150 mm. floor finish = 1 kN/m^2 , live load = 2 kN/m^2 . Estimate the maximum design moments in the beams and columns. Assume four stories in building. 20

UNIT – IV

8. Design a reinforced concrete slab for a room measuring 4 meter \times 5 meter from inside. The slab carries a live load of 2500 N/m^2 , and is finished with 20 mm thick granolithic finishing, having unit weight of 24 kN/m^3 . Use M20 and Fe250 steel. The slab is simply supported over the four edges with corner held down. Take width of supporting wall as 300 mm. 20