

(4 Hrs.)

(Max.Marks:80)

- N.B.** (1) Question no.1 is compulsory  
 (2) Answer any three(03) questions from the remaining questions  
 (3) All questions carry equal marks

1. Draw **the plan of Hospital building** in city area, as **(G+1) R.C.C framed structure only** on PLOT of 50 m.x 55 m.

**Requirements of the various units as per follows:-**

- |                        |                                       |
|------------------------|---------------------------------------|
| 1) Consulting Room     | <b>2 No.</b> -each 20 m <sup>2</sup>  |
| 2) Male Ward           | -100 m <sup>2</sup>                   |
| 3) Female Ward         | -100 m <sup>2</sup>                   |
| 4) Operation Theatre   | -30 m <sup>2</sup>                    |
| 5) Special Rooms       | <b>3 No.</b> - each 20 m <sup>2</sup> |
| 6) I.C.U               | - 50 m <sup>2</sup>                   |
| 7) Pathology Lab       | -20 m <sup>2</sup>                    |
| 8) Medical Store       | -20 m <sup>2</sup>                    |
| 9) Administrative Unit | - 30 m <sup>2</sup>                   |
| 10) Nurse Room         | -20 m <sup>2</sup>                    |

Provide adequate passage, staircase, sanitary units as per byelaws. Assume floor to floor height as **3.6 m** provide adequate passages, Staircases, Toilet/sanitary units as per the bye-laws. Draw the following according to some suitable scale.

- |  |    |
|--|----|
| (a) GROUND FLOOR PLAN  | 15 |
| (b) Line Plan of First Floor   | 05 |
| 2. Draw the Sectional Elevation for the building you have planned in Q.no.1  | 20 |
| 3. Draw the <b>Two-point</b> perspective for the building you have planned in Q.no.1 Assume the eye level at 2.2m. from Ground level . | 20 |
| 4. (a) Write detailed Principles of Town Planning  | 10 |
| (b) Draw front elevation of the planned building in Q.1  | 10 |
| 5. Draw the <b>One- point</b> –perspective for a workshop with the following data :  | 20 |
| Size of workshop = 5 m x 15 m  |    |
| Height of workshop = 4m (excluding pitched Roof )  |    |
| Eye level = 2m , from G.L  |    |
| Plinth Level = 0.6 m from G.L  |    |
| 6. (a) Draw the detailed foundation plan with a section of a one footing for the building, you have planned in Q.No.1                  | 12 |
| (b) Write detailed notes on Modular planning   | 08 |

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