

B.E. Civil Engineering Fifth Semester
CE505 - Building Design and Drawing

P. Pages : 1

Time : Four Hours



GUG/W/18/1604

Max. Marks : 80

- Notes :
1. Question No. 1 is compulsory.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Assume suitable data wherever necessary.
 4. Retain the construction lines.
 5. Illustrate your answers wherever necessary with the help of neat sketches.
 6. Solve **any two** from Q. No. 2, Q.3 and Q. 4.

1. A medical practitioner desires to build a residential house with provision for a consulting chamber and examination room in the same building. The building will be two storeyed with stair case. The plot size is 18m x 15m with road on north side the build up area shall be restricted to 240 sqm of which consultation area should not exceed 50sqm. Plan the building with minimum 3 bed room, Hall and kitchen, two bed room should have attached toilet and another common toilet, leave the margin as per byelaws of municipal corporation. Drawing the following view to a scale of 1:50 neatly dimensioned.
 - i) Ground floor plan. 10
 - ii) First floor plan. 10
 - iii) One respective section passing through stair case. 10
 - iv) Site plan to a scale 1 in 200. 5
 - v) Schedule for door and window. 5
2.
 - a) Draw self explanatory free hand sketches for the following. 10
 - i) Paneled door.
 - ii) RCC dog legged stair case.
 - b) Write a short note on 10
 - i) Aspect and Prospect
 - ii) Orientation of building.
3. Plan of a single storey building for the primary Health center and draw a single line plan on full size graph paper giving detail of room size door and window. 20
4. Draw to a suitable scale two point perspective of the building in Question No 1.0 Neglecting small details like plinth offset Chajja projection. 20
