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**[5252]-507**

**S.E. (Civil Engineering) (Second Semester) EXAMINATION, 2017**  
**ARCHITECTURAL PLANNING AND DESIGN OF BUILDINGS**  
**(2015 PATTERN)**

**Time : Two Hours****Maximum Marks : 50**

**N.B. :-** (i) Attempt Q. 1 or 2, Q. 3 or 4, Q. 5 or 6, Q. 7  
or Q. 8.

(ii) Figures to the right indicate full marks.

(iii) Draw neat sketch wherever necessary.

1. (a) Enlist documents to be submitted for seeking sanction for Building plan submitted to concerned authority. [6]
- (b) Write a short note on importance of principles of architectural planning and explain any *one* in depth with sketch. [7]

*Or*

2. (a) Why DP is said be an important document for “Living” ? [6]
- (b) Enlist planning concepts for green building and explain any *two*. [7]
3. (a) Write a short note on necessity of abbreviations and perspective drawing. [6]
- (b) Write a note on Smart Services. [6]

*Or*

P.T.O.

4. (a) What do you mean by evacuation time ? Explain its role in disaster management. [6]
- (b) Enlist the traps used for plumbing service and mention the function for any *two*. [6]
5. Draw to a scale 1 : 50 or otherwise developed plan for line plan as indicated in Figure 1. Assume suitably the tread/rise and width for the stairway for 3 m floor to floor height. Indicate the details like N line, door-window-ventilators and give the schedule for the same. [13]

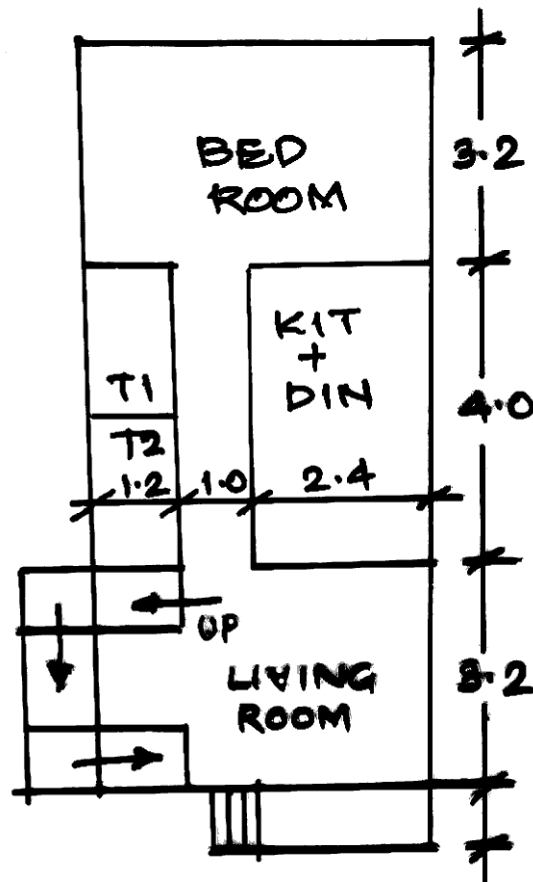


Fig. 1

*Or*

6. Draw to a scale 1 : 50 *or* otherwise developed plan using the following data :

The tread & rise for the stairway : 0.25 m, 0.15 m, Floor to floor height : 3.0 m, W.C. : 1.2 × 1 sq. m., Bath : 1.2 × 2.1 sq. m. Living room : 18 sq. m, Kitchen plus dining : 12 sq.m., Bedrooms 2 nos : 15 sq. m., Passage width 1 m. [13]

7. Draw to a scale of 1 : 50 *or* otherwise a line plan of a hospital building with 80 bed capacity. Assume suitable units for the same. Calculate the water requirement for the same. [12]

*Or*

8. Draw to a scale of 1 : 50 *or* otherwise a line plan of a hostel building with 80 bed capacity. Assume suitable units for the same. Calculate the water requirement for the same. [12]