Total No. of Questions—**8**] [Total No. of Printed Pages—**3**

Seat No.	

[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]

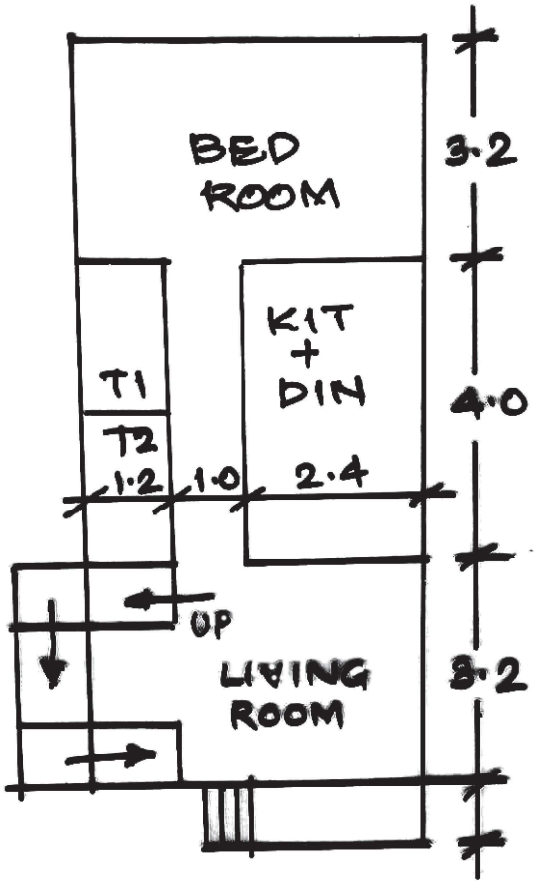

Fig. 1

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]