

B. TECH. SEM – III (CIVIL ENGG.) 2014 COURSE) (CBCS) :
SUMMER - 2018

SUBJECT : BUILDING PLANNING, DESIGN & BYELAWS

Day : **Monday**
Date : **21/05/2018**

S-2018-2230

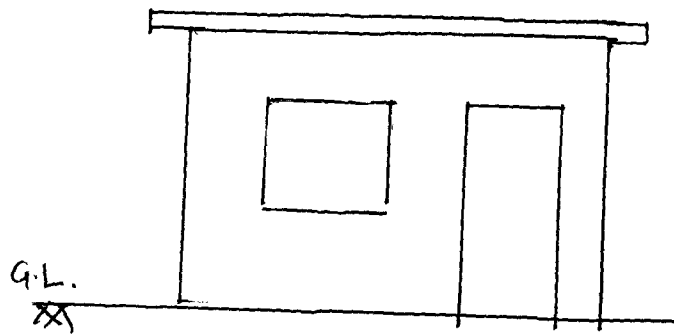
Time : **02.30 PM TO 06.30 PM**
Max. Marks : 60

N.B.

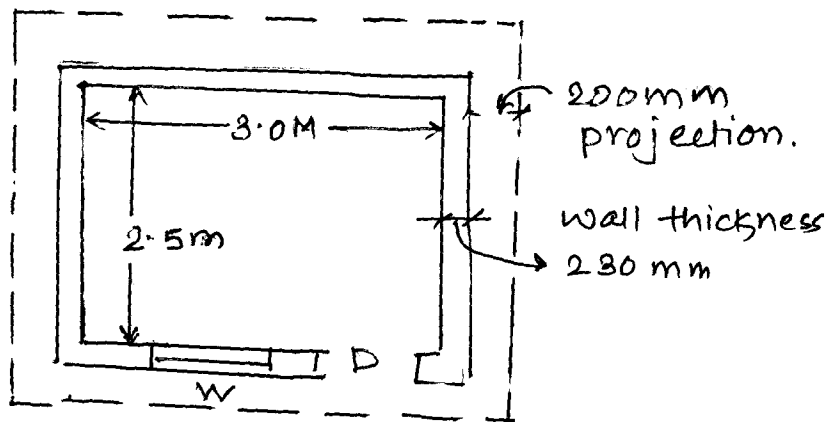
- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Use of non-programmable calculator is allowed.
- 4) Assume suitable data if necessary.

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- Q.1** a) What do you mean by Integrated approach? Describe it. (05)
b) Describe F.S.I., Building line and Control line. (05)
- OR**
- Q.1** Enlist all principles of planning and describe any two of them in detail. (10)
- Q.2** a) What is ventilation? Explain the necessity to provide proper ventilation for building? (05)
b) Discuss the requirements and conditions for good acoustics. (05)
- OR**
- Q.2** a) Define the terms – Thermal conductivity, Thermal Resistance with usual notations. (05)
b) Describe Mechanical Ventilation System. (05)
- Q.3** a) Explain Grease trap with neat diagram. (05)
b) What are the general measures of fire safety in building? (05)
- OR**
- Q.3** a) Discuss constructional details for electrical and telecommunication services. (05)
b) Draw a typical layout of water supply and drainage system for a bungalow with four rooms. Show all the details. (05)
- Q.4** Plan a low cost housing colony for Class IV staff of Government Organization. Draw a single typical plan with a scale of 1:50. Assume suitable data. (10)
- OR**
- Q.4** Discuss the constructional modifications required for intelligent building. (Minimum five points) (10)
- Q.5** a) Discuss the role of plan sanctioning authority for layout. (05)
b) Write the step wise the process for sanctioning the layout with flow chart. (05)
- OR**
- Q.5** Draw a line plan for secondary school building for 1500 number of students. Assume all other required data. Use scale 1:100. The plan should include classrooms, Principal's cabin, Staff room, Playground, Laboratories, Washrooms, administrative office and other necessary details. (10)
- Q.6** a) Discuss the necessity of town planning. (05)
b) Write the procedure to draw one point perspective. (05)
- OR**
- Q.6** Draw two point perspective with the scale 1: 50. Refer Fig. No. 1 (10)

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ELEVATION



PLAN

Fig. No. 1

Eye level = 1.8 m

slab thickness
= 100 mm.

Assume station point

Height of Room = 3.1 m.

Door = 1.2 m x 2.1 m

Window = 1.2 m x 2.1 m.