

**SUBJECT-BUILDING PLANNING, DESIGN AND BYELAWS**

Day: Friday  
Date: 23/11/2018

**W-2018-2286**

Time: 10.00 AM TO 02.00 PM  
Max. Marks: 60

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figure to the right indicate **FULL** marks.
  - 3) Draw neat and labeled diagram **WHEREVER** necessary.
  - 4) Assume suitable data wherever necessary.
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**Q.1** Explain the various principles of planning. (10)  
Draw a detail plan and elevation for a public library as a ground floor structure by assuming suitable data.

**OR**

**Q.1** What is necessity of integrated approach in building planning? (10)  
Draw a detail plan as ground floor structure for Bank showing waiting space, working area for staff, branch manager cabin, cashier cabin, store room & lockers. Assume suitable data wherever required.

**Q.2 a)** What is noise? What are the effects and sources of noise in building? (05)

**b)** Explain the thermal insulation of roofs with neat & labeled sketches. (05)

**OR**

**Q.2 a)** Describe the acoustical defects. (05)

**b)** What are the various elements of climate. (05)

**Q.3 a)** Explain elevators as a vertical circulation in a building. (05)

**b)** Describe the various plumbing fixtures fastenings. (05)

**OR**

**Q.3 a)** Explain fire load & their classes according to IS1641-1960. (05)

**b)** Describe the layout of water supply and drainage system. (05)

**Q.4 a)** What are the various eco-friendly materials used in construction of a building. (05)

**b)** What is the necessity of low cost housing in building planning? (05)

**OR**

**Q.4 a)** Describe 'Intelligent building'. (05)

**b)** Write the planning considerations for 'High Rise Building' (05)

**P.T.O.**

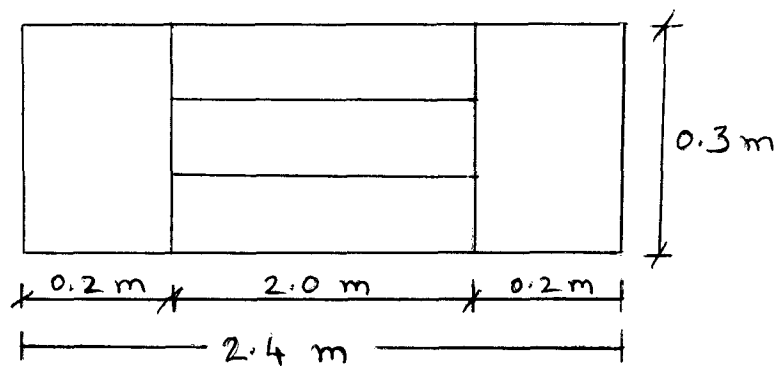
- Q.5 a) List the documents to be submitted along with building plan for sanction from the authority. (05)
- b) What is the role of plan sanctioning authority. (05)

OR

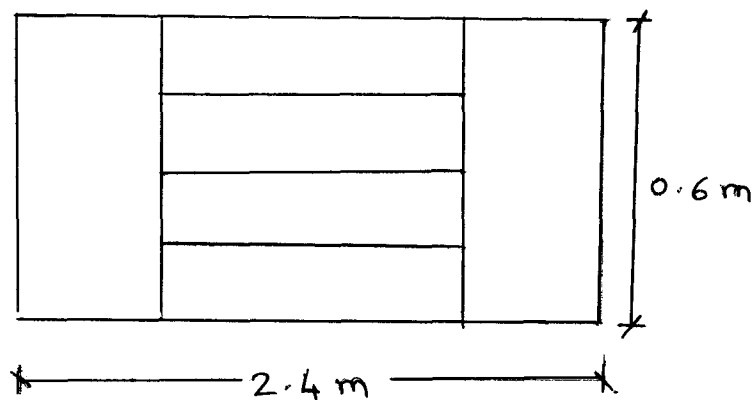
- Q.5 a) Explain 'Ownership of Land'. (05)
- b) Explain 7/12 abstract, 6-D from & TDR. (05)
- Q.6 a) What is Development Plan? (05)
- b) Describe zoning of land in town planning. (05)

OR

- Q.6 Draw a one point perspective of the figure 1. (10)



PLAN



ELEVATION

Figure 1

\* \* \* \* \*

Figure not to scale  
 All dimensions in meter  
 Trade = 0.25 m  
 Rise = 0.15 m