B. TECH. SEM – III (CIVIL ENGG.) 2014 COURSE) (CBCS) :
WINTER - 2017
SUBJECT : BUILDING PLANNING, DESIGN & BYELAWS

Day : **Friday** Time **10.00 AM TO 02.00 PM**
Date : **12/01/2018** Max. Marks : 60

W-2017-2022

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.

Q.1	**a)**	Discuss the minimum five planning requirements of bank.	**(05)**
	b)	What are the various drawings used in executing the building?	**(05)**
		OR	
Q.1		Draw a line plan of post office with a scale of 1:100. Assume suitable data wherever required. The plan include Post master cabin, sorting counter, stamp counter, cash counter, stacking area, waiting area, parcel counter and other necessary requirements.	**(10)**
Q.2	**a)**	Discuss Heat Exchange of building.	**(05)**
	b)	What is a noise? What are its effects? What are the sources of noise in building?	**(05)**
		OR	
Q.2	**a)**	Describe the acoustical defects.	**(05)**
	b)	Explain the thermal insulation of roofs as per BIS.	**(05)**
Q.3	**a)**	Draw two pipe and one pipe plumbing system for building (G+2) drainage.	**(05)**
	b)	Discuss the fire load and their classes according to IS 1641 -1960.	**(05)**
		OR	
Q.3	**a)**	Explain Septic tank with neat sketch.	**(05)**
	b)	Describe elevators as a vertical circulation in building.	**(05)**
Q.4	**a)**	Discuss 'Intelligent building'.	**(05)**
	b)	Write planning considerations of Eco friendly building.	**(05)**
		OR	
Q.4		Draw a Sectional Elevation of the following plan given. Refer Fig. No. 1	**(10)**
Q.5	**a)**	Describe the following terms: Certificate of commencement 6 – D form.	**(05)**
	b)	Discuss the role of plan sanctioning authority.	**(05)**
		OR	
Q.5	**a)**	Discuss the 7/12 abstract.	**(05)**
	b)	List out various NOC's to be produced in local authority.	**(05)**
Q.6	**a)**	Discuss the Development Plan.	**(05)**
	b)	Discuss the town planning process.	**(05)**
		OR	
Q.6		Draw a one point perspective of the following figure. Refer Fig. No. 2	**(10)**

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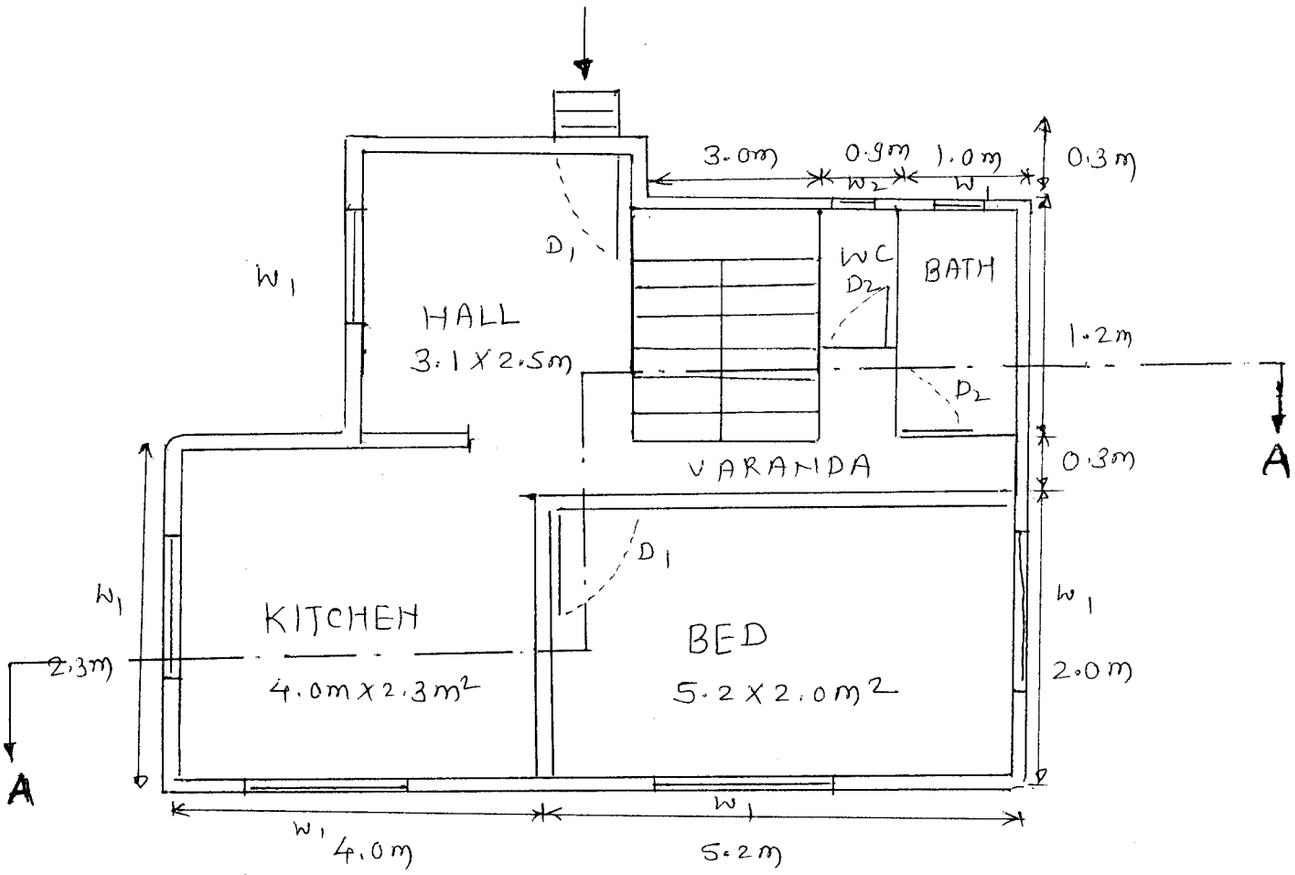
Fig. NO. 01



PLAN

RESIDENTIAL BUNGLOW

Door D_1 – 1.2 x 2.1 m

D_2 – 1.0 x 2.0 m

Window W_1 – 1.5 x 1.2 m

W_2 – 0.3 x 0.8 m

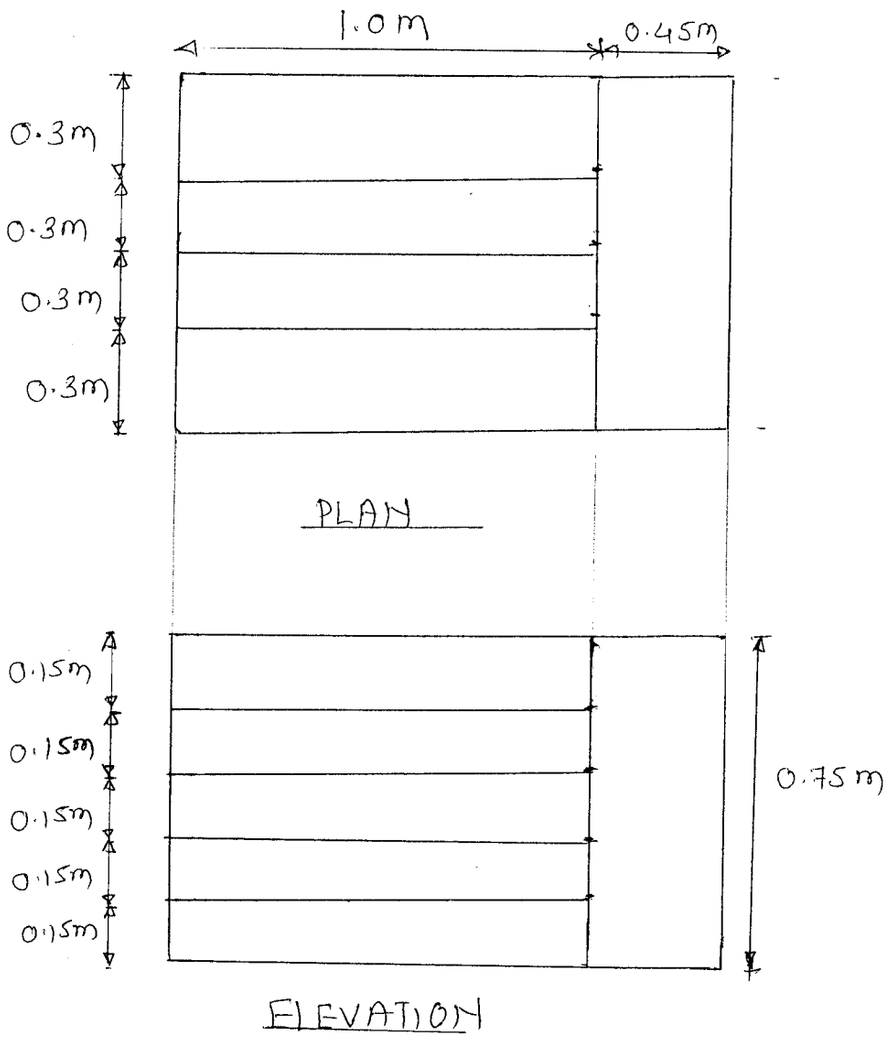
Section A-A

Depth of footing – 1.2 m

Slab Thk. – 110 mm

Plinth Height – 0.5 m

Fig. No. 02



Take eye level = 1.8 m

Assume Station point.

Note:- Fig. is Not to scale