NTK/KW/15-7288

Contd.

First Semester B. E. (CBS) Examination BASICS OF CIVIL ENGINEERING

Time	: T	wo Hours] [Max. Marks: 40
N.	В.	 (1) All questions carry equal marks. (2) Assume suitable data wherever necessary. (3) Illustrate your answers wherever necessary with the help of neat sketches. (4) Use of Non – Programmable calculator is permitted.
1.	(a)	What are the general considerations for selection of Site ?
	(b)	List out the Principles of building planning. Explain any four. 5
		OR
2.	(a)	State various types of buildings with their functions.
	(b)	A plot is having dimensions 50 m x 60 m. A building constructed on it occupies 700 m ² on ground floor and 550 m ² on first floor. If permissible FSI is 0.8, how much area can be constructed on second floor?
3.	(a) (b)	

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\mathbf{OR}

4.	(a)	What	are	the	various	instruments	used	in
		survey	ing?	Exp	lain Digit	al Planimeter	and To	otal
		Station	1.					6

- (b) Draw a typical cross-section of a Highway. 4
- 5. (a) Draw flowchart of Water Treatment process and state purpose of each unit. 5
 - (b) For a town of population 1 lakh, the per capita consumption is 270 litres/capita/day. Calculate the quantity of supply water required for the town. Also, give the breakage of domestic demand.

OR

- 6. (a) Explain the different types of dams. Draw the cross-section of Gravity dam.
 - (b) Explain Rainwater Harvesting. 5
- 7. (a) Explain the concept of Green building. 5
 - (b) What are the different types of strain gauges? Explain Electrical resistance strain gauge. 5

OR

- 8. (a) Explain Spectrophotometer. 5
 - (b) Explain the role of Civil Engineer in Sustainable development. 5

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