P.T.O.

2014 BUILDING SERVICES-III

Paper: 5.6

Full Marks: 100

Time: 3 Hours

The figures in the margin indicate full marks for the questions.

1.	Answer the following questions (any ten):		2×10
	a)	What is mechanical ventilation?	
	b)	What is a diffuser?	
	· c)	Define Air Conditioning System.	
	d)	What is a conveyor belt?	
	e)	What is Pressurization?	
	f)	What is compartmentalization?	1-1
	g)	What is meant by de-humidification of air?	2
	h)	Define Psychometrics	
	i)	What is the need of artificial Ventilation?	
	j)	What is Industrial air conditioning?	
	k)	What is comfort air conditioning?	
	1)	What is zoning in air conditioning system?	
2.	Answer the following (any six):		10×6
	a)	What are the components of an Air Conditioning	
		System? Explain the function of each component.	
	b)	What are the different types of ducts used in an	
		air conditioning system? Draw the air flow	
		diagram in the AC System.	
	c)	Explain the working Principle of central System	
		of air conditioning, with the help of sketches.	

d) Discuss the working principle of Unitary system

of Air conditioning with the help of sketches.

- e) State the rules for fire protection and fire Fighting requirements for high rise buildings in India.
- f) Describe briefly the characteristics of combustible and non-combustible materials in case of fire in buildings.
- g) What are the different types of fire hazards? Discuss briefly the different types of classification of buildings for fire hazards mentioned in NBC.
- h) What are different types of lifts? Discuss with the help of diagrams.
- 3. Write short notes on the following (any five):

4×5

- a) Air Handling Unit
- b) Air Conditioning Cycle
- c) Passive fire Protection System.
- d) Hydraulic Lifts
- e) Split Air Conditioner
- f) Refrigeration Cycle
- g) Fire alarms

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