

(Following Paper ID and Roll No. to be filled in your
Answer Books)

Paper ID : 181616

Roll No.

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B. Arch.

Theory Examination (Semester-VI) 2015-16

ARCHITECTURAL SERVICES-V

Time : 3 Hours

Max. Marks : 100

Section-A

Q1. Attempt all parts. All parts carry equal marks. Write answer of each part in short. Word limit for answers is maximum 30 words. [2×10=20]

- (a) Differentiate between 'A' class and 'C' class of fire.
- (b) How Heat sensor is different from Smoke sensor?
- (c) How Starvation is different from Smothering?
- (d) Differentiate between Fire rating and Fire load.

- (e) Differentiate between Digital and Analog Recording system.
- (f) What is Flash point?
- (g) Differentiate between Dry and Wet riser.
- (h) What is Turnstile?
- (i) What is P. I. R. motion detector?
- (j) Name three types of biometric systems using human hand as identification.

Section-B

Q2. Attempt any five questions from this section. Word limit for answers is approximately 250 words. [5×10=50]

- (a) Discuss different Classes of fire and methods to extinguish them.
- (b) Identify different types of fire alarm systems and explain any one type in detail.
- (c) Differentiate between active and passive systems of fire protection and illustrate any two passive systems in detail.

- (d) Explain the advantages and disadvantages of installing Intrusion Detection Sensors and Alarm Systems in a Five star hotel. Illustrate any one Intrusion Detection system installed inside the hotel.
- (e) Discuss the need of CCTV Cameras and explain various mechanism types of these cameras.
- (f) Explain the concept of Security lighting and discuss the systems which monitor and record the activities, in the night, in and around the buildings.
- (g) Explain the basic principles of Access Control Systems for a Corporate Office building and illustrate any two Access Control Systems.
- (h) Explain types of perimeter protection systems used in buildings and discuss their advantages and disadvantages.

Section-C

Note: Attempt any two questions from this section.

[2X15=30]

- Q3. Explain the importance of Fire Detection Equipments and discuss any two types of Fire Detection Equipments.

- Q4. A Jeweller wants to install electronic security and surveillance systems in his Shop of size 3000 mm X 5000 mm and 3500 mm height with 3000mmX3000mm opening in front, located in a shopping complex. Draw freehand proportionate plan and elevations in answer script showing all the systems to a suitable scale.
- Q5. Discuss the necessity of providing Means of Escape and Fire Escape. Elaborate the General Exit Requirements as prescribed in NBC.

