



**KD-6710**

**B. Arch. III (Sem. V) Examination**

**December - 2012**

**ARC - 504 : Building Services & Equipment - III**

Time : 2 Hours]

[Total Marks : 50

**Instructions :**

(1)

नीचे दर्शाविए निशानीवाणी विगतो उत्तरवही पर अवश्य लખवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
B. Arch. 3 (Sem. 5)

Name of the Subject :  
ARC - 504 : Building Services & Equipment - 3

Subject Code No. : 6 7 1 0 Section No. (1, 2,.....): Nil

Seat No. :  
[ ] [ ] [ ] [ ] [ ] [ ]

Student's Signature

- (2) Figures on the right side indicate full marks.  
(3) Descriptive answers to be written point wise only.  
(4) Support your answers with neat sketches wherever needed.

1 Fill up :

10

- (1) The speed of sound in m/sec is \_\_\_\_\_
- (2) Sound behaves in the same manner as \_\_\_\_\_
- (3) Reverberation is a phenomenon which depends upon \_\_\_\_\_ and \_\_\_\_\_
- (4) In a hall with lot of soft furnishing you can expect \_\_\_\_\_ reverberation time.
- (5) Air cooler is best for \_\_\_\_\_ climate.
- (6) HVAC stands for \_\_\_\_\_ .
- (7) \_\_\_\_\_ are used as additional fire alarms to alert hearing - impaired persons.
- (8) Codes generally require elevator shafts to be provided with \_\_\_\_\_ at the top
- (9) Using air pressure differences across barriers to control smoke is often called \_\_\_\_\_
- (10) Machine room is not required in case of \_\_\_\_\_ type of lifts.

- 2 (a) Draw a typical section through the traction lift designed to carry eight persons with complete clarity of dimensions. 10

OR

- (a) Draw a section through the panoramic lift designed to carry the load of six to eight persons. 10
- (b) Compare split A. C. with window type A. C. 5
- 3 (a) Draw a typical plan and cross section through the cinema hall (multiplex) for a seating capacity of 250 people, showing various finishes. Show any one fixing detail for a surface material of your choice. 10
- (b) Write short notes : (any **three**) 15
- (1) Active means of fire control
  - (2) Dry riser and wet riser system
  - (3) Bye laws for staircases and lifts for fire evacuation purpose
  - (4) Concept of pressurization for protected escape route
  - (5) Schematic working of central air conditioning system.

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