



UG-6710
B. Arch. III (Sem. V) Examination
May/June - 2012
Building Services & Equipments - III
(ARC - 504)

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

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| <p>नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination :</p> <p>B. Arch. III (Sem. V)</p> <p>Name of the Subject :</p> <p>Building Services & Equipments - III</p> <p>Subject Code No. : 6 7 1 0 Section No. (1, 2,.....) : Nil</p> | <p>Seat No. :</p> <table border="1" style="width: 100%; height: 20px;"><tr><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td></tr></table> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; margin-top: 10px;">Student's Signature</div> | | | | | | |
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- (2) Figures to the right indicate full marks.
- (3) Descriptive answers to be written pointwise only.
- (4) Support your answers with neat sketches wherever needed.

1 Fill up. 10

- (1) The bathroom singers experience a rich quality of sound due to _____.
- (2) The magnitude of sound is expressed in _____.
- (3) The range of sound pressure level (dB) from 'very faint' to 'painful' is _____.
- (4) Air cooler is best for _____ climate.
- (5) HVAC stands for _____.
- (6) _____ are used as additional fire alarms to alert hearing-impaired persons.
- (7) Codes generally require elevator shafts to be provided with _____ at the top.
- (8) Using air pressure differences across barriers to control smoke is often called _____.

- (9) 'STC' value helps in assessing _____ properties of the materials.
- (10) Machines room is not required in case of _____ type of lifts.
- 2** (a) Draw a typical section through the traction lift **10**
designed to carry eight persons with complete clarity of dimensions.
- OR**
- (a) Draw a section through the panoramic lift designed to **10**
carry the load of six to eight persons.
- (b) Describe the working principle and space requirements **5**
for central air conditioning system.
- 3** (a) Draw a typical plan and cross section through the **10**
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.
- (b) Write short notes. (any three) **15**
- (1) Active means of fire control
 - (2) Dry riser and wet riser system
 - (3) Bye laws for access clearance for fire hydrant entry
 - (4) Concept of pressurization for protected escape route
 - (5) Schematic working of central air conditioning system.
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