

S.No. : 481

BID 1601

No. of Printed Pages : 03

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 10721

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BID Examination, 2021-22

(Even Semester)

INTERIOR SERVICE -VI

Time : 3 Hours]

[Maximum Marks : 60

Note : Attempt all questions.

SECTION -A

1. Explain the following term :

8×1=8

- (a) AHU.
- (b) Cooling load.
- (c) Fire Retarding Materials.
- (d) Smoke detectors .
- (e) Fire Alarm.

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- (f) HVAC.
- (g) Dampers in an air distribution system.
- (h) Duct in Air-conditioning system.

SECTION – B

2. Attempt any three parts of the following : $3 \times 4 = 12$
- (a) What is Thermal Comfort? Discuss various factors that affect Human Comfort.
 - (b) Discuss the various components in an air distribution system.
 - (c) What are the different factors to be considered while evaluating cooling load?
 - (d) Differentiate the following :
 - (i) Dry Riser vs. wet Riser in Firefighting systems.
 - (ii) Fire Exit vs. Fire Lift.

SECTION – C

3. Attempt four parts of the following : $4 \times 10 = 40$
- (a) What are the various types of air conditioning systems? Discuss the difference between unitary and central air conditioning systems.
 - (b) Explain the use of Psychometric chart in air conditioning process and discuss the findings that can be derived from the chart.
 - (c) Explain evaporative cooling system. Discuss the passive application of it, in interior design.
 - (d) Suggest and elaborate in detail the working of the type of air-conditioning system that should be provided in a commercial office complex.
 - (e) With the help of schematic diagram, explain the function of automatic sprinkler system and its types.
 - (f) Explain the importance and types of portable firefighting arrangement installed in a building.

