

1903M979

Candidate's Seat No : _____

B.I.D. (Sem.-5) Examination**ID 502****Construction-5****March 2019****Time : 3-00 Hours]****[Max. Marks : 100****Instructions:**

1. **Figures on right indicate full marks**
2. **Draw neat sketches wherever required**
3. **Assume suitable additional data if required**

1. Explain the following (Any Six)**(60)**

- 1) What factors should be consider while selecting roof covering? Describe properties of roof covering material.
- 2) Differentiate between Interior & Exterior cladding.
- 3) Describe various type of reflected sound material for acoustic.
- 4) Define the following term: batten, eaves, hip, rafter roof, verge and valley.
- 5) Define pitch roof & various types.
- 6) Define thermal insulation. Explain advantages of thermal insulation.
- 7) What is cladding? Brief components of cladding.
- 8) Differentiate between Wet & Dry cladding.
- 9) Give material Choice criteria & properties of material for thermal insulation.
- 10) Write down acoustical design criteria for auditorium with proportionate section view.
- 11) Describe the various types of materials for prevention of acoustic.
- 12) What is good acoustic & explain factors affecting design acoustic.

2. Explain with the help of sketches (Any Eight)**(40)**

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| 1) Lean to roof | 10) Absorption, reflection, diffuser material |
| 2) King post & Queen post | 11) Echo effect |
| 3) Roof covering material | 12) Wet & Dry cladding |
| 4) Sound Insulation, Sound absorption, Sound reflection | |
| 5) Types of covering | |
| 6) Conduction, Convection, Radiation | |
| 7) Principle of thermal insulation | |
| 8) Material used in cladding | |
| 9) Reverberation of sound | |

B.I.D. (Sem.-5) Examination

ID 506

Climatology

March 2019

Time : 2-00 Hours]

[Max. Marks : 50

- Instruction:
1. Assume suitable data if necessary.
 2. Use separate answer book for each section.
 3. Figures to the right indicate full marks.
 4. Neat proportionate sketches are necessary to explain theories.

Q-1 Explain briefly along with sketch : heat exchange process of human body (10)

OR

Explain in detail with sketches different passive design control for any 3 climates.

Q-2 (20)

- (a) What do you mean by weather & climate? State Difference between it.
- (b) Show through sketches different cross ventilation effects
- (c) State different types of elements of climate and explain briefly
- (d) Sketch Heat Balance Equation and its importance

Q-3 ATTEMPT ANY 4: (20)

- (a) What do you mean by macro and micro climate (Show Sketch with example)
- (b) Explain briefly regional approach to climate
- (c) Explain acoustics
- (d) Principles of sound
- (e) Write in brief about Daylight

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