



POORNIMA UNIVERSITY, JAIPUR.
MID SEMESTER EXAMINATION 2020-21 (ODD Semester)

School : School of Planning & Architecture
Course : III Year V SEM – B. Arch.
Subject Name : Construction Material -V
Subject Code : BAR05103

Max. Time: 1.5 hrs.

Max. Marks: 12

NOTE:- Attempt four questions. There is internal choice in Q. 1 & 2, Q. 3 & 4, Q. 5 & 6 & Q. 7 & 8.

Sec-A (CO 3) (Max. Marks-6)

- | | | | |
|------------|------------|--|--------------|
| Q.1 | (a) | State the properties of a good thermal insulating material. | Marks |
| | (b) | State the factors on which the cost of insulating material depends on. | (1.5) |

OR

- | | | | |
|------------|------------|---|--------------|
| Q.2 | (a) | What is thermal insulation? | (1.5) |
| | (b) | Write the advantages and disadvantages of thermal insulation. | (1.5) |
-
- | | | | |
|------------|------------|--|--------------|
| Q.3 | (a) | Explain the ways heat transfer takes place in the building | (1.5) |
| | (b) | Explain briefly the methods of thermal insulation in a building. | (1.5) |

OR

- | | | | |
|------------|------------|--|--------------|
| Q.4 | (a) | Draw proportionate section showing method adopted for thermal insulation on:- 1] exposed walls
2] roofs | (1.5) |
| | (b) | Elaborate on the properties of <u>any one</u> materials used for thermal insulation | (1.5) |

Sec-B (CO 4) (Max. Marks-6)

- | | | | |
|------------|------------|---|--------------|
| Q.5 | (a) | What is sound transmission? | (1.5) |
| | (b) | List down the spaces where sound insulation is necessary. | (1.5) |

OR

- | | | | |
|------------|------------|---|--------------|
| Q.6 | (a) | State the properties of a good sound insulating material. | (1.5) |
| | (b) | Write the advantages of sound insulation. | (1.5) |
-
- | | | | |
|------------|------------|---|--------------|
| Q.7 | (a) | Explain the ways sound transfer takes place in the building | (1.5) |
| | (b) | Define: 1] sound 2] decibel 3] sound absorption | (1.5) |

OR

- | | | | |
|------------|------------|---|--------------|
| Q.8 | (a) | Draw proportionate section showing method adopted for sound insulation on:- 1] double wall
partition 2] ceiling (interior) | (1.5) |
| | (b) | Elaborate on the properties of <u>any one</u> materials used for sound insulation | (1.5) |
-