

**B. Id (Semester-5)**  
**ID-503 MATERIALS AND CONSTRUCTION (REGULAR)**  
**April 2022**

**Time: 3 Hours**

**Total Marks: 100**

Important Instructions:

- (1) Attempt all the questions.
- (2) Use NEAT AND PROPORTIONATE SKETCHES and figures wherever required.
- (3) Figures on the right indicate the full marks.

1. Explain sound, sound transmission and properties of sound. **(15)**
  2. Draw one neat sketch and briefly explain below items. **(15)**
    - hip
    - valley
    - ridge
    - dormer
    - gable
    - shed
    - eve
  3. Explain reflection, refraction, diffusion and absorption of sound. **(20)**
  4. write down function of acoustics. **(10)**
  5. Briefly explain thermal insulation for building and material used for thermal insulation in building. **(10)**
  6. Explain reverberation time ? **(8)**
  7. What is cladding ? Write down function of cladding and write down types of interior cladding and exterior cladding. **(12)**
  8. Describe difference between dry and wet cladding. **(10)**
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