

B. ARCH.
(SEM VI) THEORY EXAMINATION, 2017-2018
ARCHITECTURAL SERVICE - III

Time: 3 Hours

Total Marks: 100

Note:

- Answer any FIVE questions in all.
 - Assume suitable data, if found missing
 - Use appropriate scale for drawings
 - Credit shall be given to neat and accurate drawing
1. A class room, having an octagonal plan with a pyramidal roof. Above, is proposed to be constructed in a primary school. It is expected to have a capacity of 30 toddler, making noise. You being a consultant are expected to give your recommendations in detail, for acoustical design of the classroom. Support your answer with neat illustrations. **20x1=20**
 2. Write short notes on ALL **5x4=20**
 - a. Resonance of sound
 - b. Sabine's Expression
 - c. Sound Shadows
 - d. Dead spots
 - e. Amplifiers
 3. Differentiate between the following. Support your answer with neat illustrations: **10x2=20**
 - (a) Absorption and Transmission of sound
 - (b) Intensity and loudness of sound
 4. A class room, having an octagonal plan with a pyramidal roof. Above, is proposed to be constructed in a primary school. It is expected to have a capacity of 30 toddler, making noise. You being a consultant are expected to give your recommendations in detail, for acoustical design of the classroom. Support your answer with neat illustrations. **20x1=20**
 5. List common acoustical defects and suggest suitable remedies for them. **20x1=20**
 6. List down properties of good acoustical materials, with relevant Examples **20x1=20**
 7. Identify primary source of noise for any 2 of the following spaces and suggest suitable recommendations to control them. **10x2=20**
 - a. Hospital
 - b. Hotel
 - c. Laboratories and Test House