



Seat No. _____

HA-1901390101063400

Third Year B. A. (ID) (Sem. VI) Examination

April - 2023

Environmental Science - II

Time : 2 Hours / Total Marks : 50

- Instructions :**
- (1) All questions are compulsory.
 - (2) Any ambiguity will be considered as a wrong answer.

1 Choose the correct answer : 10

- (1) Acoustics is study of _____
 - (A) Sound
 - (B) Light
 - (C) Air
 - (D) None
- (2) Sound level is measured in _____
 - (A) Centimeter
 - (B) Millimeter
 - (C) Centigrade
 - (D) Decibel
- (3) A painful sound is generated around _____ dB.
 - (A) 15 dB
 - (B) 40 dB
 - (C) 30 dB
 - (D) 100 dB
- (4) In which phenomenon sound passes more than one times from a listener ?
 - (A) Echo
 - (B) Flutter Echo
 - (C) Creep
 - (D) Foci
- (5) Reverberation time is abbreviated as _____
 - (A) dB
 - (B) Hz
 - (C) RT
 - (D) F
- (6) What is the full form of NRC rating ?
 - (A) Non Reflective choice
 - (B) Non responsive choir
 - (C) Noise reduction coefficient
 - (D) None

- (7) What is the unit of frequency ?
 (A) Decibel (B) Centimeter
 (C) Hertz (D) None of these
- (8) What is the frequency of ultrasonic sound ?
 (A) 20 Hz (B) 200 Hz
 (C) 2 Hz (D) 20,000 Hz
- (9) What is the sound absorption coefficient of Hardwood ?
 (A) 0.1 (B) 0.2
 (C) 0.3 (D) 0.4
- (10) What play a part in calculating RT ?
 (A) Length of room (B) Area of room
 (C) Volume of room (D) None

2 Match the following : 10

- | | |
|---------------------|------------------------|
| (1) Mughal Garden | (a) Moorish Style |
| (2) Spanish Garden | (b) Victorian Style |
| (3) Japanese Garden | (c) Vertical Gardening |
| (4) Modern Garden | (d) Char Bagh |
| (5) English Garden | (e) Zen Garden |

3 Answer the following questions : (any three) 15

- (1) Write basic elements of acoustics design.
- (2) Describe in detail sound absorption coefficient.
- (3) Requirements of a good acoustic material.
- (4) Explain the characteristics of a French Garden.
- (5) How are Japanese and English Gardens different ?

4 Draw construction detail of wall / partition, door/ window, ceiling and flooring for acoustical treatment. 15
