QP CODE: 25001139

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Reg No : .....

Name : .....

B.VOC DEGREE (REGULAR / IMPROVEMENT /REAPPEARANCE)EXAMINATIONS, DECEMBER 2024

First Semester

B.VOC SOUND ENGINEERING

BSES104 - SCIENCE OF SOUND

2018 Admission Onwards

6903755C

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Explain crest and trough of wave.
2. Name the two different types of wave motion.
3. Define envelope of sound.
4. How can you create white noise?
5. What is a reverberant field?
6. Name the different components of middle ear.
7. What is the dB value for threshold of pain?
8. In which case does sound reflection become an 'echo'?
9. What is a reflected sound?
10. What do you mean by distortion?
11. Write the full form of STC.
12. How can you control bass frequency build-up in room corners?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. What is a mehanical wave? Why is sound called a mechanical wave?
14. What do you mean by peak amplitude and RMS amplitude?
15. What happens to sound when entering from a slower medium to faster medium?
16. Explain place theory.
17. Human ear is not equally sensitive to all the frequencies. Explain.
18. Explain cocktail-party effect.
19. Explain spacial localization.
20. What do you mean by sound isolation?
21. Define transmission loss.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Describe sound envelope.
23. What is a standing wave? How are they formed? Explain different room modes with the help of suitable diagrams.
24. Explain how loudness and frequency sensitivity of the human ear are related.
25. What is reverberation time? Give the detailed procedure on how it is measured.

(2×15=30)