

TILAK MAHARASHTRA VIDYAPEETH, PUNE
B.A. IN MUSIC PRODUCTION
EXAMINATION: MAY - 2025
FIRST SEMESTER
Sub: The Physics of Sound (BAMP 23-101)

Date: 20/05/2025**Total Marks : 40****Time: 10.00 am to 12.00 pm**

Instruction:*All questions are compulsory.***Q. 1. Descriptive Answer (Any Two)****(20)**

- 1) What is an audio waveform, and what information does it convey?
- 2) Provide an explanation of the phenomenon of resonance, accompanied by relevant examples. Illustrate how resonance is utilized in the composition of musical works.
- 3) Compose concise definitions or provide brief explanations of the following terms:
 1. Waveform phase and phase shift
 2. Sound interference due to phase difference
 3. Comb filtering

Q. 2. Write short notes. (Any Two)**(10)**

- 1) Analog vs Digital Information
- 2) Simple and complex sounds.
- 3) Sound generation process

Q. 3. Compose concise definitions or provide brief explanations of the following terms:**(10)**

1. Soundwave propagation
2. Waveform characteristics
3. Peak Amplitude
4. RMS Value
5. Period of wave
6. Wavelength
7. Pitch and standard pitch
8. Sound timbre
9. Sound / acoustic envelope
10. Resonance