

**4/E-83 (xi) (Syllabus-2015)**

**2 0 2 2**

**( May/June )**

**MUSIC**

**( Elective )**

**( Sound for Music )**

**[ MUS(E)-403 ]**

**Marks : 30**

**Time : 2 hours**

*The figures in the margin indicate full marks  
for the questions*

**Answer four questions, selecting one from each Unit**

**UNIT—I**

1. How is sound produced? Explain the physical characteristics of a sound wave. State the difference between volume and timbre. 2+3+2½=7½
2. What is the difference between noise and distortion? Mention the different kinds of noise that you are familiar with and how you can tackle them. Define the term white noise, pink noise and black sound. 2+3+2½=7½

## UNIT—II

3. What do you understand by the term 'healthy ear'? Explain the mechanism of hearing with a neat diagram. Define ultrasound and infrasound with examples.

$$2+3+2\frac{1}{2}=7\frac{1}{2}$$

4. What is a microphone? Explain the parameters on which the quality of a microphone depends. Describe the working and construction of a dynamic microphone.

$$2+3+2\frac{1}{2}=7\frac{1}{2}$$

## UNIT—III

5. What are the different audio connectors available? Illustrate with the help of a diagram. State the differences between analogue and digital recording.

$$2+3\frac{1}{2}+2=7\frac{1}{2}$$

6. What is a cable? Describe a balanced and un-balanced cable with a neat sketch. Describe the role of a sound recordist in an audio programme.

$$2+2+3\frac{1}{2}=7\frac{1}{2}$$

## UNIT—IV

7. Explain in detail the various functions of an audio mixer with a neat sketch. What are the technical aspects as well as the creative aspect that govern the quality of audio recording?

$$4\frac{1}{2}+3=7\frac{1}{2}$$

8. Explain in detail the various components that make up a sound recording chain. Highlight the role of narration, music and sound effects in audio production.  $3+4\frac{1}{2}=7\frac{1}{2}$

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