



Satyajit Ray Film & Television Institute

(Deemed to be University under Distinct Category under Section 3 of the UGC Act, 1956)

Sample questions for SRFTI Entrance Test

Department – Sound Recording & Design for Film & Sound for EDM

Science of Sound

Sample Questions:

1. Microphones are called transducers because

- A. It creates sound energy
- B. It creates electrical energy
- C. It converts electrical energy to acoustic energy
- D. It converts acoustic energy to electrical energy

Answer: D

2. During rarefaction in a sound wave, what happens to the air particles?

- A. They come closer together
- B. They stop moving
- C. They move farther apart
- D. They get warmer

Answer: C

3. Mexican wave in a stadium is an example of

- A. Transverse wave
- B. Electromagnetic wave
- C. Longitudinal wave
- D. None of the option

Answer: A

4. A goalkeeper in a football game pulls his hands backwards after holding the ball shot at the goal. This enables the goalkeeper to

- A. increase the rate of change of momentum
- B. decrease the rate of change of momentum
- C. increase the force exerted by the balls on the hands
- D. exert larger force on the ball

Answer: B



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5. Suppose R_1 & R_2 are two resistors connected in a DC circuit with constant potential difference. What will be the expression of Total Resistance of the circuit when they are connected in parallel?
 - A. R_1/R_2
 - B. $R_1 \cdot R_2 / (R_1 + R_2)$
 - C. $(R_1 + R_2) / R_1 \cdot R_2$
 - D. $R_1 + R_2$

Answer: B

Critical Listening/Aptitude

1. You clap your hands in a large gymnasium and hear the sound repeat faintly after a brief delay. Why does this happen?
 - A. The sound waves increase in amplitude over time
 - B. The sound waves reflect off the walls and return to you
 - C. The pitch of the sound changes as it travels
 - D. The sound waves slow down in the large space

Answer: B

2. When you blow harder into a whistle, the sound becomes louder but the note stays the same. What property of sound is primarily affected by blowing harder?
 - A. Frequency
 - B. Timbre
 - C. Amplitude
 - D. Speed

Answer: C

3. In a quiet room, you tap a metal spoon and a wooden spoon on a table, and they produce different sounds even at the same pitch. What property of sound explains this difference?
 - A. Loudness
 - B. Timbre
 - C. Frequency
 - D. Propagation speed

Answer: B

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4. During a storm, you see lightning and hear thunder a few seconds later. Why is there a delay between the lightning and thunder?
 - A. Thunder has a lower frequency than lightning
 - B. Sound travels slower than light
 - C. The amplitude of thunder decreases over distance
 - D. The timbre of thunder changes as it travels

Answer: B

5. Tick the correct order from louder to softer sound source.
 - A. Classroom lecture > Jet plane take off > Mosquito fly by > Rock music concert
 - B. Mosquito fly by > Jet plane take off > Rock Music concert > Classroom Lecture
 - C. Jet Plane Take off > Rock Music concert > Classroom Lecture > Mosquito Fly by
 - D. Classroom Lecture > Rock Music concert > Jet Plane Take off > Mosquito Fly by

Answer: C

Music

Which of the following musicians is related to the Indian Instrument “Tabla”.



A.



B.



C.



D.

Answer: D



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2. Which of these Instruments has a lower frequency response

- A. Maracas
- B. Hi-Hats
- C. Manjira
- D. Tuba

Answer: D

3. Select the option with the right chronology of music composers (earliest to newest) .

- A. Ludwig van Beethoven, Wolfgang Amadeus Mozart, Johann Sebastian Bach, Frédéric Chopin
- B. Frédéric Chopin, Ludwig van Beethoven, Wolfgang Amadeus Mozart, Johann Sebastian Bach
- C. Johann Sebastian Bach, Wolfgang Amadeus Mozart, Ludwig van Beethoven, Frédéric Chopin
- D. Johann Sebastian Bach, Frédéric Chopin, Wolfgang Amadeus Mozart, Ludwig van Beethoven

Answer: C

4. Jingles help in :

- A. Providing detailed product information
- B. Reducing sales
- C. Increasing brand recall
- D. None of the above

Answer: C

5. What is the term for the ascending and descending structure of a raga in Hindustani music?

- A. Alankar
- B. Arohana-Aavarohana
- C. Tala
- D. Pakad

Answer: B