## NEET Predicted Question Paper 2024 Physics

- In a series LCR circuit, the inductance $L$ is 10 mH , capacitance $C$ is 1 qF and resistance fi is 100 D . The frequency at which resonance occurs is :
(1) 1.59 kHz
(2) $15.9 \mathrm{rad} / \mathrm{s}$
(3) 15.9 kHz
(4) $1.59 \mathrm{rad} / \mathrm{s}$
- A football player is moving southward and suddenly turns eastward with the same speed to avoid an opponent. The force that acts on the player while turning is:
(1) along south-west
(2) along eastward
(3) along northward
(4) along north-east
- The ratio of radius of gyration of a solid sphere of mass M and radius fi about its own axis to the radius of gyration of the thin hollow sphere of same mass and radius about its axis is?
- The ratio of frequencies of fundamental 23 harmonic produced by an open pipe to that of closed pipe having the same length is
(1) $3: 1$
(2) $1: 2$
(3) $2: 1$
(4) $1: 3$

An ac source is connected to a capacitor $C$. Due to decrease in its operating frequency :
(1) capacitive reactance remains constant
(2) capacitive reactance decreases.
(3) displacement current increases.
(4) displacement current decreases.

- Resistance of a carbon resistor determined from colour codes is (22000 + 5\%) CL The colour of third band must be :
- The net magnetic surface is?
- In the hydrogen spectrum, the shortest wavelength in the Balmer series is . The shortest wavelength in the Bracket series is?
- Calculate the maximum acceleration of a moving car so that a body lying on the floor of the car remains stationary. The coefficient of static friction between the body and the floor is $0.15(\mathrm{~g}=10 \mathrm{~m} \mathrm{~s} 2)$.
- 10 resistors, each of resistance fi are connected in series to a battery of emf $€$ and negligible internal resistance. Then those are connected in parallel to the same battery, the current is increased o times. The value of $n$ is :
- The resistance of platinum wire at $0^{\circ} \mathrm{C}$ is 2 D and 6.8 D at $80^{\circ} \mathrm{C}$. The temperature coefficient of resistance of the wire is?
- A bullet from a gun is fired on a rectangular wooden block with velocity $u$. When a bullet travels 24 cm through the block along its length horizontally, velocity of the bullet becomes. Then it further penetrates into the block in the same direction before coming to rest exactly at the other end of the block. The total length of the block is :

