

Independent Jr. College Of Science, Rural Institute, Amt.
First Unit Test - 2022-23
SUB : Physics
Class : XII

Time: 1.30 Hrs.)

(Marks: 25)

Section A

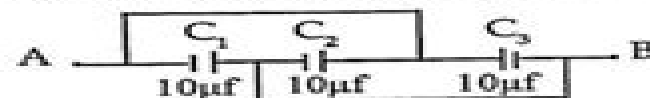
Q.1) Select and write appropriate.

(4)

i) The magnitude of centripetal force cannot be expressed as.

- a) $mr\omega^2$ b) $\frac{4\pi^2 mr}{T^2}$ c) $mv\omega$ d) mv/ω

ii) The Effective capacitor between A and B in the following circuit is



- a) $\frac{10}{3}\mu f$ b) $\frac{3}{10}\mu f$ c) $30\mu f$ d) $\frac{1}{30}\mu f$

iii) The angular displacement of a particle in 6 sec on a circle with angular velocity $\frac{\pi}{3}$ rad/sec is

- a) π rad b) 2π rad c) 3π rad d) $\frac{\pi}{2}$ rad

iv) One beat means that the intensity of sound should be

- a) Once maximum b) Once maximum and once minimum
 c) Once minimum d) twice maximum and twice minimum

Q2) Arrange the following (Answer in one sentence)

(5)

- Define beat frequency?
- Capacitors are combined in which arrangement when we require a large capacitance at small potential?
- Define acoustic potential?

Section B

Q3) Answer any two.

(6)

- Differentiate between free and forced vibrations.
- A thin ring has mass 0.25 kg and radius 0.1m. The ring is allowed to roll without slipping through the center and perpendicular to the plane is _____
- State Gauss' Law. what is Gaussian surface.

Question Of Physics Unit 1 Jan 2015

Camilla Rothe



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