

ECAT Physics Online Test

Sr	Questions	Answers Choice
1	Velocity is a	<p>A. scalar quantity</p> <p>B. vector quantity</p> <p>C. constant quantity</p> <p>D. none of them</p>
2	If 250V is the RMS value of alternative voltage, then its peak value V_0 will be:	<p>A. 353.5V</p> <p>B. 250V</p> <p>C. 175V</p> <p>D. zero</p> <p>E. 400V</p>
3	The inkjet printer ejects a thin stream of:	<p>A. <p class="MsoNormal">Water</p></p>
4	The property of fluids due to which they resist their own flow is called:	<p>A. Drag force</p> <p>B. Surface tension</p> <p>C. Viscosity</p> <p>D. None of these</p>
5	There is a regular arrangement of molecules in a	<p>A. amorphous solids</p> <p>B. polymeric solids</p> <p>C. crystalline solids</p> <p>D. none of them</p>
6	Which waves are used in sonography?	<p>A. Microwaves</p> <p>B. Infra red waves</p> <p>C. Sound waves</p> <p>D. Ultrasonic waves</p>
7	A process is a reversible process, if the entropy of the system	<p>A. increases</p> <p>B. decreases</p> <p>C. remains constant</p> <p>D. none of them</p>
8	The input resistance of the OP-AMP is the resistance between the	<p>A. (-) input and output</p> <p>B. (+) input and output</p> <p>C. (-) and (+) inputs</p> <p>D. between any inputs</p>

9 Tick the correct statement:

Potential is a scalar but potential difference is a vector

Both are vectors

Potential is vector but potential difference is scalar

None of these

10 The surface density of charge is defined as:

Charge per volume

Mass per volume

Charge per area

Mass per area

Both (B) and (C)

11 A body moving with an acceleration of 5 m/sec^2 started with velocity of 10 m/sec . What will be the distance traversed in 10 seconds?

A. 150 m
B. 250 m
C. 350 m
D. 400 m

12 There is certain frequency below which no electrons are emitted from the metal surface, this frequency is known as

A. maximum frequency
B. minimum frequency
C. threshold frequency
D. all of these

13 How many isotopes of helium are present?

A. 1
B. 2
C. 3
D. 4

14 At resonance, the impedance of RLC series circuit is

A. Maximum
B. Zero
C. Minimum
D. Determinate

-
- 15 The unit of resistance is
- A. volt
B. ampere
C. ohm
D. coat
-
- 16 At constant temperature, if the density of the gas is increased, its pressure will:
- A. One kg of a substance
B. Unit volume of a substance
C. One mole of a substance
D. None of these
-
- 17 Electromagnetic -radiation means:
- A. Photons
B. protons
C. Electrons
D. Mesons
E. None of these
-
- 18 When certain nucleus emits α particle, its mass number:
- A. Increases by one
B. Decreases by one
C. Remain same
D. Decreases by four
E. None of these
-
- 19 Electrons are
- A. positive charged
B. negatively charged
C. massless
D. neutral
-
- 20 A body of mass 5 kg is acted upon by a constant force of 20 n for 7 seconds. The total change in momentum will be:
- A. 10 NS
B. 100 NS
C. 140 NS
D. 200 NS
-