

Physics ECAT Pre Engineering Chapter 1 Measurement

Sr	Questions	Answers Choice
1	Which branch of physics deals with the structure and properties of solids	A. Atomic Physics B. Plasma Physics C. Molecular Physics D. Solid state physics
2	In the equation $E=mc^2$ value of c is:	A. 1,86,000 miles per hour B. 1,86,000 miles per sec C. 3×10^8 m/sec D. Both A and C E. Both B and C
3	Computer chips are made from	A. Conductors B. Semiconductors C. Insulators D. Both A and B
4	The time taken by light to travel from moon to earth is:	A. 80 sec B. 500 sec C. 1.802×10^4 sec D. Aerophysics
5	The quantity have dimension of ML^2T^{-2} will have SI unit of:	A. Watt B. Newton C. Joule D. Metre
6	The maximum possible error in the reading of an instrument is _____ its least count.	A. Half of B. Quarter of C. Equal to D. Double than
7	Density is defined as:	A. Mass per volume B. Volume per mass C. Mass x volume D. Mass per length
8	If the absolute uncertainty of an instrument is 0.0a1 cm, then its least count will be :	A. 0.005 cm B. 0.01 cm C. 0.02 cm D. 0.001 cm
9	High energy physics is branch of physics, which deals with:	A. Stars and galaxies B. Sub-atomic particles C. Light and sound D. Molecules
10	The branch of physics which concerned with the ultimate particles of which the universe is composed is known as	A. SolidState physics B. Particle Physics C. Nuclear Physics D. Atomic Physics
11	Dimension of mass is written as:	A. M B. [M] C. (M) D. [m]
12	Total number of base units are	A. Three B. Five C. Seven D. Nine
13	The maximum possible error in the reading for a meter rod with least count 1 mm is:	A. 0.005 mm B. 0.05mm C. 0.5mm D. 5.0mm
14	From sand, we get a material used for construction of computer chips. That material is called:	A. Copper B. Lead C. Silicon D. Germanium
15	Particles have the mass smallest of following is:	A. Electron B. Proton C. Neutron

D. Quark

16 The branch of physics which deals with the structure and properties of solids is called:

- A. Plasma physics
- B. Solid state physics
- C. Any of above
- D. Astrophysics

17 Physical quantities are often divided into _____ categories

- A. 3
- B. 2
- C. 9
- D. 5

18 The mechanics, which deals with the objects moving with velocities approaching that of light is called

- A. Relativistic mechanics
- B. Wave mechanics
- C. Quantum mechanics
- D. Statics

19 Which quantity has different dimension?

- A. Tension
- B. Work
- C. Energy
- D. Torque

20 Astrophysics is a branch of physics, which deals with:

- A. Sub-atomic particles
- B. Stars and galaxies
- C. Light and sound
- D. Music