## Physics ECAT Pre Engineering Chapter 1 Measurement

| Sr | Questions | Answers Choice |
|---|---|---|
| 1 | Particles have the mass smallest of following is: | A. Electron<br>B. Proton<br>C. Neutron<br>D. Quark |
| 2 | Aerodynamics is a branch of: | A. Hydrodynamics<br>B. Thermodynamics<br>C. Both of them<br>D. Statics |
| 3 | In the equation $E=mc^2$ value of c is? | A. 186000 miles per hour<br>B. 186000 miles per sec<br>C. $3 \times 10^8$ m/sec<br>D. Both A and C<br>E. Both B and C |
| 4 | Astrophysics is a branch of physics, which deals with | A. Sub-atomic<br>B. Stars and galaxies<br>C. Light and sound<br>D. Music |
| 5 | The branch of physics, which deals with the structure an properties of solids is called: | A. Plasma physics<br>B. Solid state physics<br>C. Any of above<br>D. Astro physics |
| 6 | From sand, we get a material used for construction with the motion of bodies under the action of forces is called: | A. Optics<br>B. Mechanics<br>C. Thermodynamics<br>D. Astrophysics |
| 7 | Physics details with the study of: | A. Matter<br>B. Energy<br>C. Both of them<br>D. Human body |
| 8 | Examples of physical quantities are: | A. Length<br>B. Color<br>C. Effect of music<br>D. All of these |
| 9 | Which one is the least multiple | A. Pico<br>B. Femto<br>C. Nano<br>D. Atto |
| 10 | The information from far side of the universal are gathered by: | A. Radio telescope<br>B. Microscope<br>C. Telescope<br>D. Spectro scpe |
| 11 | Diameter of the nucleus s of the order of | A. $10^{-10}$m<br>B. $10^{-12}$m<br>C. $10^{-15}$m<br>D. $10^{-18}$m |
| 12 | Significant figures in 0.2020 are: | A. Two<br>B. Three<br>C. Four<br>D. Five |
| 13 | The system international (SI) is built from _____ kind of unites | A. Two<br>B. Three<br>C. Four<br>D. Five |
| 14 | Density is defined as: | A. Mass per volume<br>B. Volume per mass<br>C. Mass X volume<br>D. Mass per length |
| 15 | The maximum possible error in the reading of an instrument is _____ its least count. | A. Half of<br>B. Quarter of<br>C. Equal to<br>D. Double the |

| 16 | At the present time, the main frontiers of fundamental science are | A. 2<br>B. 3<br>C. 4<br>D. 5 |
|----|----|----|
| 17 | 1 gm-cm$^{-3}$ is equal to: | A. $10^3$ kg-m$^{-3}$<br>B. $10^{-3}$ kg-m$^{-3}$<br>C. 1 kg-m$^{-3}$<br>D. $10^6$ kg-m$^{-1}$ |
| 18 | For multiplication and division purposes, percentage uncertainties are: | A. Add<br>B. subtracted<br>C. Multiplied<br>D. Divided |
| 19 | Diameter of the atom is of the order of | A. $10^{-10}$ m<br>B. $10^{-12}$ m<br>C. $10^{-15}$ m<br>D. $10^{-9}$ m |
| 20 | Branch of physics which deals with the study of stars and galaxies is called: | A. Solid state physics<br>B. Astrophysics<br>C. Molecular physics<br>D. Chemical physics |