



Register Number:

Date:

**ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27**

**CBCS OPEN ELECTIVE - IV SEMESTER**

**SEMESTER EXAMINATION: APRIL 2022**

**(Examination conducted in July 2022)**

**PHOE 4318 – WONDERS OF PHYSICS**

**Time- 1½ hrs**

**Max Marks-35**

**This paper contains TWO printed pages and 3 parts**

**PART – A**

**Answer any FIFTEEN QUESTIONS. Each question carries ONE mark. 15X1=15**

- Which among these is not a part of the atom?  
a. Proton      b. Electron      c. Neutron      d. Photon
- The size of the atom is approximately \_\_\_\_ larger than the size of the nucleus.  
a. 10 times      b. 1000 times      c. 10000 times      d. 100000 times
- The Ancient man found some stars wandering and named them wanderers. What are they called today?  
a. Satellites      b. Planets      c. Asteroids      d. Meteors
- Only 4 % of the known universe is made of \_\_\_\_\_  
a. Luminous matter      b. Dark matter  
c. Dark energy      d. Ether
- A deduction made from the things that can be observed to the things that may never be seen is called \_\_\_\_\_  
a. Direct Deduction      b. indirect Deduction  
c. Metaphysical deduction      d. Induction
- What is the material cause of the table?  
a. Wood      b. Carpenter      c. Hammer      d. The structure of the table.
- Which of the following is NOT a general difference between a planet and a star?  
a. Planets are smaller than stars  
b. Planets are dimmer than stars.  
c. All planets are made of rock and all stars are made of gas  
d. Planets orbit stars, while stars orbit the center of the galaxy.
- \_\_\_\_\_ is the process of reasoning in which the premise of an argument supports the conclusion, but does not guarantee it.  
a. Deduction      b. Induction      c. Intuition      d. Conjunction
- How long does it take for the Earth to complete one orbit around the Sun  
a. One month      b. One day  
c. One year      d. The time varies significantly depending on the orbit.
- An object whose gravitational field is so strong that light cannot escape is called  
a. Dark matter      b. neutron star  
c. Wormhole      d. black hole
- Nobel Laureate Francis Crick is a proponent of which theory of life's origin?  
a. Panspermia      b. Biogenesis      c. Abiogenesis      d. Spontaneous generation

