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| **Register Number:****Date:01-04-2019** |

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

**B.Sc. PHYSICS - IV SEMESTER**

**SEMESTER EXAMINATION: APRIL 2019.**

**PHOE 4316 : Wonders of Physics**

**Time: 1 1/2 hours Max Marks: 35**

This paper contains 1 printed page and 2 parts

**PART A**

**Answer any 5 questions. Each question carries 5 marks. (5x5 = 25 marks)**

1. Explain Aristotle’s four causes with an example.

2. Write a short note on the trinity of science. Elaborate on why they are called “trinity of     trinities”?

3. What makes earth unique in the vast cosmos? Discuss the features of Earth – the privileged     planet.

4. What are the 6 different ways of arriving at knowledge?

5. Has distance and size of cosmological objects induced a sense of wonder in you? Explain.

6. What are the attributes of time? Describe any four attributes.

7. Why is information a non-material entity? Explain the five levels of information with one     practical example.

8. Explain the law of cause and effect? How does it apply to the universe we live in?

 **PART B**

**Compulsory Question: 10 marks**

9. Out of the many demonstration experiments performed in the class, choose any 5 experiments and write a short note on the same. Draw diagrams when necessary.

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