

TB165390D

Reg. No.:

Name :

B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2018
(2016 Admission Regular & 2015 Admission Supplementary)
SEMESTER V- OPEN COURSE (PHYSICS)
PH5D01ATB – AMATEUR ASTRONOMY

Time: Three Hours

Maximum Marks: 80

PART A

I. Answer all questions. Each question carries 1 mark.

1. Define asterism.
2. What is a protostar?
3. Which is our galaxy? What is its type?
4. Write a note on coronal mass ejection
5. How did Ptolemy explained the retrograde motion of planets?
6. Define the term equant.

(6 x 1 = 6)

PART B

II. Answer any seven questions. Each question carries 2 marks.

7. Why do stars twinkle while the planets do not?
8. What are constellations? Give its classification.
9. Briefly discuss the features of Crux.
10. What are red giants?
11. What are absolute and apparent magnitudes?
12. Distinguish between granules, spicules and faculae seen on the surface of sun.
13. Discuss the surface features of the planet mercury.
14. Why Venus is called the twin of earth?
15. What is cosmological principle?
16. Explain the terms epicycle and deferant.

(7x 2= 14)

PART C

III. Answer any five questions. Each question carries 6 marks.

17. Differentiate between solar and sidereal day.
18. Write an account of various aberrations in telescopes? How are they rectified?
19. Explain the life cycle of a star massive than the Sun.
20. Explain and label the diagram representing stellar evolution.
21. Describe the surface features of Moon
22. Discuss the internal structure of the sun. Also explain how the energy produced in the core reaches the outer layers of the sun.