

--	--	--	--	--

Time : 2 Hours

ASTRONOMY

Subject Code

S	2	0	9	3
---	---	---	---	---

Total No. of Questions : 34 (Printed Pages : 4)

Maximum Marks : 40

INSTRUCTIONS : (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Drawing and labelling of diagram should be done in pencil only.

Choose the correct alternatives from those given below each statement and rewrite : 4

1. Aryabhatta advocated that Earth turns on its axis in his model.

- Refractive
- Heliocentric
- Geocentric
- Reflective

2. The less hot areas on the Sun's outer surface are called

- Sunspots
- Regolith
- Crater
- Mare

3. The brightness of a star or other celestial bodies are known as

- Scale
- Energy
- Temperature
- Magnitude

4. Studying of Sun forms a whole branch of astronomy is known as

- Heliocentric
- Observational astronomy
- Heliophysics
- Geocentric

Name the following : 4

5. According to some theories the planet which is considered as failed star.
6. A fine grained soil covering surface of the moon.
7. The brightest Stars in the night sky create a unique pattern.
8. Closest approach of moon around Earth.

Give astronomical term for the following : 2

9. Dark areas on the moon's surface.
10. Self luminous globular body made up of hydrogen gas.

Answer the following questions in *one-two* words each : 4

11. Where did King Jai Singh construct observatories ?

12. What are the minor planets of the solar system that orbit the sun beyond our last planets called as ?
13. Which is the second densest moon in the solar system ?
14. What is universe made up of ?

Answer the following questions in *one* sentence each : 5

15. Mention any 2 months of the Vedic era.
16. What does the colour of a star indicate ?
17. State *one* property of a star.
18. What is opposition ?
19. The discovery of water on moon is of great importance to mankind. Why ?

Give reason for the following : 5

20. Radio telescope has fundamental importance in astronomy.
21. Terrestrial planets are different from Gas giants.
22. Earth is the only planet in the solar system known to host life.
23. The Solar observation must be conducted through proper experts and gadgets.
24. Star never twinkle if from outer space.

Match the columns : 2

Column 'A'	Column 'B'
25. Luna 3	(i) Landed on the surface
26. Chandrayan 1	(ii) 1st man to land on moon
	(iii) 1st photo of lunar side
	(iv) Evidence of water

- Correlate the following : 2
27. Hemanta ritu : winter season :: : Summer season.
28. : Lilavati :: Aryabhatta : Arya Siddhanta.
29. Draw a neat diagram of reflector telescope and label it : 2
- (a) Secondary mirror
- (b) Eyepiece.
30. Draw a neat diagram of Partial Lunar eclipse and label it : 2
- (a) Sun
- (b) Moon
- (c) Earth.
- Answer the following questions in **2-3** sentences each : 8
31. Write a note on the telescope of Hans Lippershey.
32. How are star Cluster classified ?
33. The list is important while doing astronomical observation of constellation.
Explain.
34. Explain any **2** properties of a planet.