

M.SC.(Physics) Semester - 2 (CBCS) Examination
May/June-2021 (NEW COURSE)
Space Physics (CORE)

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figure to the right indicate marks.
2. There are five questions in the question paper.
3. Answer any three of the following questions.

<u>Q.1</u>	Answer the following questions in detail. (Each 7 marks)	14
a.	What is Geopotential height? Explain it in details.	7
b.	Discuss about thermal balance of the Earth's atmosphere.	7
<u>Q.2</u>	Answer the following questions in detail. (Each 7 marks)	14
a.	Describe thermal and photochemical effects of radiation in the Earth's atmosphere.	7
b.	Explain Chapman's theory of photo ionisation in detail.	7
<u>Q.3</u>	Answer the following questions in detail. (Each 7 marks)	14
a.	Explain effect of Ionosphere on radio wave propagation.	7
b.	What are rocket and satellite techniques of ionospheric measurements? Describe.	7
<u>Q.4</u>	Answer the following questions in detail. (Each 7 marks)	14
a.	List different regions of the Sun and explain at least in one in detail.	7
b.	Write a short note on Sunspot numbers and Solar cycle.	7
<u>Q.5</u>	Answer the following questions in detail. (Each 7 marks)	14
a.	What do you mean by Global Positioning System? Explain it in details.	7
b.	What are characteristics of real remote sensing system? Explain how does land and geographic information is obtained using it.	7
