	U.G. (CBCS) DEGREE EXAMINATION, NOVEMBER 2023.						(c)	Millions of miles long	
Fourth Semester							(d)	None of the above	
	Physics					4.	Wh	/hat is an Asteroid?	
	Non Major Elective — SPACE PHYSICS						(a)	a giant snowball in space	
(For those who joined in July 2021-2022)							(b)	a miniature star	
Time: Three hours Maximum: 75 marks							(c)	a large rock that is orbiting the sun	
	PART $\Lambda$ — (10 × 1 = 10 marks)						(d)	none	
	Answer ALL questions.					5.	mh.	The outermost layer of sun is called ————.	
	Choose the correct answer.				). · ·	,.	(a)		
1.	Which is the planet nearest to the sun?				1				
	(a)	Earth	(b)	Mars			(c)	Chromosphere (d) Corona	
	(c)	Mercury	(d)	Saturn	•	S.,		ich of the following part of the sun is visible at	
2.	Ganymede, the biggest moon in our solar system, belongs to which planet?						the	time of the eclipse?	
	(a)	Saturn	(b)	Uranus			(a)	Photosphere (b) Corona	
	(c)	Neptune	(d)	Jupiter			(c)	Chromosphere (d) Core	
						1.		Page 2   Code No. : 20458 E	
			*	7.0					
7.	First variable star was identified in ————.  (a) 1639 (b) 1637					PART B — $(5 \times 5 = 25 \text{ marks})$ Answer ALL questions, choosing either (a) or (b).			
	(c)	1640	(d)	1638			Ea	ch answer should not exceed 250 words.	
8.	424	7 is a	ra est y		1	1.	(a)	Distinguish between interior and exterior planets.	
	(a) ·	giant galaxy						Or	
	(b)	spiral galaxy			1		(b)	Describe the different regions of earth's	
	(c)	dwarf galaxy						atmosphere.	
	(d)	irregular gala	ıxy		1	2.	(a)	Give the structure of comets.	
9.	TC 41.	ione in no min	the color	ir of the sky would be				Or	
,	11. U11	ere is no sun,	the color	if of the sky would be			(b)	Give the structure of asteroids.	
	(6)		(L)	blue			٠,	Write about Corona.	
	(a)	orange	(b)			э.	(a)		
64	(c)	yellow	(d)	black				Or	
10. The distance between the Earth and the sun (in							(b)	Write the features of moon.	
	milli	million kms) is ————.				1.	(a)	Explain about constellation.	
	(a)	111	(b)	149				Or	
	(c)	168	(d)	193	*1		(b)	Explain about types of galaxies.	
		ı	Page 3	Code No. : 20458 E				Page 4 Code No. : 20458 E [P.T.O.]	

How long is a comet's tail?

Hundreds of miles long

Thousands of miles long

(6 pages)

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15. (a) What is big bang theory? Explain.

Or

(b) Describe steady state theory.

PART C  $\rightarrow$  (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain in detail about the core of the Earth.

Or

- (b) Explain about Magnetosphere.
- 17. (a) Explain in detail about Periodic comets.

Or

- (b) Describe a brief explanation of meteors.
- 18. (a) Give the structure of photosphere.

Or

(b) Explain about solar plages.

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19. (a) Explain the different types of star clusters and their origin.

Or

- (b) Write in detail types of variable stars.
- 20. (a) Write in detail about Pulsating theory.

Or

(b) Describe in detail about composition of universe expansion.

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