This question paper contains 2 printed pages]

R-109-2017

FACULTY OF SCIENCE

B.Sc. (Third Year) (Fifth Semester) EXAMINATION MARCH/APRIL, 2017

(Old Course)

PHYSICS

Paper XIII

(Astrophysics)

	(Astrophysics)	0,00	
(Saturd	ay, 8-4-2017) Time: 10.00 a.m. to 12.0	Time: 10.00 a.m. to 12.00 noon	
Time—7	'wo Hours Maximum Mar	rks—40	
N.B. :-	(i) All questions are compulsory.		
	(ii) All questions carry equal marks.		
1. At	tempt any four:	8	
(a)	What is Astrophysics?		
(b)	Define blackbody radiation.		
(c)	State Hubble's Law.		
(d	State the numbers of moons of Venus, Saturn and Jupiter.		
(e)	Define parsec.		
(f)	What do you mean by minor objects of solar system? What different types of minor objects?	are the	
2. At	Attempt any two:		
(a	Describe structure and composition of Venus.		
(b)	Explain Kepler's theory of planetary motion.		
(c)	Write a note on comets.		
3. At	tempt any two:	8	
(a	Describe in brief about physical properties of Astronomical st	tars.	
(b	Write a short note on Milkyway Galaxy.		
(c)	Describe in brief chromosphere.		

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4. Attempt any one:

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- (a) Explain in detail spectral and luminosity classification of stars.
- (b) Discuss the Big-Bang Universe.
- 5. Write short notes on (any two):

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- (a) Steady state cosmology
- (b) Asteroids
- (c) Sun spot and sun cycle
- (d) Electromegnetic spectrum.