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EOE-034/EOE-044

(Following Paper ID and Roll No. to be filled in your Answer Book)											
PAPER ID: 0930	Roll No.										

B.Tech.

(SEM IV) EVEN SEMESTER THEORY EXAMINATION, 2009-2010

SPACE SCIENCES

Time: 3 Hours

Total Marks: 100

Note: (i) Atter

- (i) Attempt all questions.
- (ii) All questions carry equal marks.
- (iii) Draw neat diagrams at suitable places.
- 1. Write a note on any four of the following: (4x5=20)
 - (a) 'Asteroids
 - (b) Kepler's law of planetary motion
 - (c) Jovian Planets
 - (d) Formation of elements beyond Iron
 - (e) Energy generation in Sun
 - (f) Dark Matter
- 2. Attempt any two parts of the following: (2x10=20)
 - (a) Telescopes of different types that are used in different region of EM radiation had significantly contributed in study of space discuss each of them.

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- (b) Comment on the problems associated with human eye while observing the way was the commence discuss new detecting devices to address these problems.
- (c) Discuss Nebular Theory of formation of Solar System with special emphasis on the formation of celestial objects inside the frost line.
- 3. Attempt any two parts of the following: (2x10=20)
 - (a) Discuss in detail the formation and structure of
 - (i) Red Giant and
 - (ii) White Dwarf.
 - (b) Define Active and Normal Galaxies. Differentiate between Seyferts and Quasars and hence, discuss the high luminosity of Ouasars.
 - (c) Mass plays a vital role in stellar evolution discuss it for Massive Stars.
- 4. Attempt any two parts of the following: (2x10=20)
 - (a) Discuss Harvard Classification system and Hertzsprung Russel diagram for stars along with its utility in study of Space.
 - (b) Discuss dark energy and some of its indirect evidences and finally its role in deciding the nature of our universe.
 - (c) The farthest we see, the earliest time is that we observe Elaborate this statement in general and in particular with reference to CMBR by discussing its importance in developing our understanding of Universe.

- 5. Write a note on any four of the following: (4x5=20)

 (a) Apparent and Absolute Magnitude Inc.com
 - (a) Apparent and Absolute Magnitude (b) Bode's Law of Planetary position
 - (b) Bode's Law of Flatterary position
 - (c) Nucleosynthesis
 - (d) Comets
 - (e) Solar Wind
 - (f) Black Holes