



UNIVERSITY OF THE PUNJAB

B.A. / B.Sc. Part - I
Annual Examination - 2018

Roll No.

Subject: Space Science-I
PAPER: A (Astronomy, Astrophysics & Metereology)

TIME ALLOWED: 3 hrs.
MAX. MARKS: 75

NOTE: Attempt any FIVE questions. All questions carry equal marks.

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| Q-1(a) | Differentiate between Sidereal and Mean solar Time? | 7.5 |
| (b) | Discuss Sun's Apparent Annual Motion? | 7.5 |
| Q-2(a) | What is the use of Sextant. ? | 7.5 |
| (b) | What equipment is used for Land Surveying? | 7.5 |
| Q-3(a) | Discuss in detail about the Atmospheric Refraction? | 7.5 |
| (b) | Write in detail about Geocentric and Annular Parallax? | 7.5 |
| Q-4 | What is the Luminosity and Magnitude Relation of a star? | 15 |
| Q-5 | What is a Supernovae. Write about Supernovae Explosion? | 15 |
| Q-6 | Define Galaxy. What are its different types. Discuss in detail the Structure of Local Galaxy? | 15 |
| Q-7 | How upper air observations are conducted. Discuss in detail ? | 15 |
| Q-8 | Discuss in detail about Geostrophic Winds? | 15 |
| Q-9(a) | Define an air mass. What are its source regions and characteristics? | 7.5 |
| (b) | How Heat low develops over Balochistan. Discuss its significance? | 7.5 |