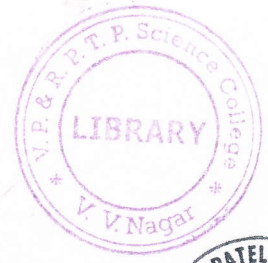




A Charutar Vidya Mandal's Institution
V.P. & R.P.T.P. SCIENCE COLLEGE

(AUTONOMOUS) (Grant-in-Aid)
Affiliated to Sardar Patel University
VALLABH VIDYANAGAR-388120



Bachelor of Science (Semester 1) Internal Examination - 2024
US01IKBSC11: Indian Astronomy

Date: 8th October 2024, Tuesday

Time: 11:00 AM to 12:00 Noon

Total marks: 20

Q-1 Multiple Choice Questions

(6 Marks)

- 1) In general the period of Vedangajyotisa is between
A) 10 to 12 Centuries B) 12 to 14 Centuries C) 12 to 13 Centuries D) 11 to 13 Centuries
- 2) The Pole star is _____ away from North Pole.
A) 1^0 B) 2^0 C) 3^0 D) 4^0
- 3) Vernal equinoxes and Autumnal equinoxes are denoted by _____ respectively.
A) γ , Ω B) η , Ω C) Ω , γ D) Ω , η
- 4) Vernal equinoxes has precession rate of about _____
A) $51''27$ B) $50''27$ C) $51^027''$ D) $50^027''$
- 5) In Ecliptic Co-ordinate system, if celestial body lies on ecliptic then latitude β will be
A) 1 B) 0 C) 2 D) 5
- 6) Zodiac are constituted by _____ Padas.
A) 118 B) 4 C) 108 D) 12

Q-2 Explain Siddhantas and discuss Contents of Siddhantas in details.

(7 Marks)

OR

Q-2 I) Explain Pole Star and Directions.

(4 Marks)

II) Prove that Latitude of Place is equals to altitude of Pole Star.

(3 Marks)

Q-3 Write a note on Rasis and Nakshatra system.

(7Marks)

OR

Q-3 Explain Ecliptic and Equatorial co-ordinate system with figure.

(7Marks)