

(4)

Unit-III / FkæF-III 7½

6. (a) What is Solar Wind?
meej JeeJeg kebee nP
- (b) Explain Stefan's Law to determine the surface temperature of the Sun.
mede&kaer melen keae Teehe %eete keaj ves ka eueS mSheave kea eueJee keaes mecePeeFS-
7. Discuss the Solar Model for various regions of the Sun.
meesej ceC[ue ka Deeej hej mede&kae eueve YeeelWkae JeCae keaepeS-

Unit-IV / FkæF-IV 7½

8. (a) Explain one internal energy source of Saturn.
Medre «en kaer DeevLeej ka Gpe&eeete keaes mecePeeFS-
- (b) Describe the Whipple's hypothesis of the origin of the solar system.
meej ceC[ue kaer GIheete kaer eueve keae heej keauevee keae mecePeeFS-
9. Where the Comets are found? Explain the Structure of the Comet.
Oetkeal eg kaer haeS pees nP Oetkeal eg kaer mej uevee keae JeCae keaepeS-

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(Printed Pages 4)

Roll No. _____

S-688

B.Sc. (Part-I) Examination, 2015

(Regular & Exempted)

ASTRONOMY

Second Paper

(General Astronomy-I)

Time Allowed : Three Hours] [Maximum Marks : 50

Note : Answer five questions in all. Question No.1 is Compulsory. Attempt one question from each unit.

keue heete euevekeae Goej cepeS- eueve me 1 DeeeJee&nw euevekeae FkæF&mes Skeae eueve keaepeS-

1. Attempt all questions: $2 \times 10 = 20$
meYee KeC[nue keaepeS :

(a) What are the difference between the terrestrial planets and Jovian planets?

Šj smŠue «enWSJeb peeteSve «eneb ceC[ue Devlej nP

(b) What are the main constituents of Venus atmosphere? What are the clouds in up-

P.T.O.

(2)

per atmosphere made of ?

Megeá «en kaá JeeJeeC[ue kaá ceK[ue DeJeeJe keáwe mes nP

Fmekeá Thejer JeeteJey Ce cellGhefnLele yeeoue ekeámemes yeves nP

(c) What is the " Roche Limit" and What is its relevance to Planetary rings ?

'j eMes meece' kabíee nW SJeB «en eDe JeeUeeWkeás mecePeves cel Fmekeáer kabíee GheUeeSlelee nP

(d) What is Kuiper belt ? How far is it from the Sun?

'kabíchej yasiš' kabíee nP Fmekeáer melle&mes ojer kabíee nP

(e) Why planet Neptune appears blue ?

veUÚetre «en veeues jlie keáe kabíeelWebKeelee nW?

(f) Write shorts notes on Polar caps of Mars.

celíeue «en keáer heesiej keáthe hej me#ehle eŠtheCeer eUeeKES-

(g) Explain Habitable Planets and Habitable zone.

nWyeŠyeue «enellSJeB nWyeŠyeue peere keás mecePeFS-

(h) Discuss the C-Type and S-Type asteroids.

C-ŠeFhe SJeB S-ŠeFhe Teej ekeáeUeeWkeáe JeCete keáepes-

(i) Explain 'Green House Effect'.

«eeue neGme kaá DeYeeJe keás mecePeFS-

(j) If a man weights 66 Kilograms on earth, how much will he weight on moon ?

Úeeb ekeámeer cevegele keáe heeJee hej Yeej 66 ekeáuee#eece nWlee Úevöcee hej Gmekeáe Yeej kabíee neíee?

(3)

Unit-I / FkeáeF-I

7 1/2

2. (a) Explain the ionosphere of the earth's atmosphere with diagram. What is the utility of ionosphere in human life ?

heJeeerkaá JeeJeeC[ue keáer DeUeeveeC[ue keáe meeUeŠe JeCete keáepes- DeUeeveeC[ue keáer cevele peereve cellKáe GheU eeleelee nP

(b) Write short notes on Aurora.

DeUeevee pÚeeSle hej me#ehle eŠtheCeer eUeeKES-

3. (a) Give three evidences to show that the earth is rotating on its axis.

Teere ÚeeceCeellÉeje oMeerFS ekeá heeJee Deheves De#e kaá heej le: TeCete keáj leer nW

(b) Explain "Van Allen Radiation Belt" in brief.

"Jeeve Suesre j oÚeeUeeve yasiš" keáe me#ehle JeCete keáepes-

Unit-II / FkeáeF-II

7 1/2

4. (a) Discuss the spring tides in brief.

Jeeáe-pJeej keáe me#ehle JeCete keáepes-

(b) Explain Lunar Librations in latitude.

Úevöcee keáe De#eeUee cellDeeYeemeer oesreve keáe JeCete keáepes-

5. (a) Describe fission theory of the moon's origin

Úevöcee keáer Gheebhe keáer eheUeeve eheÉevle keáe JeCete keáepes-

(b) Derive a formula for finding the phase of moon.

Úevöcee keáer keáuee %eele keáj veskaá eUeeS meŠe JÚeeUeeve keáepes-