Reg. No. : ....

Name : ....

V Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.(T.T.M.)/B.B.A.(R.T.M.)/B.B.M./
B.T.T.M./B.C.A./B.S.W./B.A. Afsal-Ul-Ulama/B.B.A. (A.H.) Degree
CBCSS (OBE)-Regular Examination, November 2021
(2019 Admission Only) Open Course
5D04PHY : JOY OF STAR WATCHING

Time : 2 Hours   Max. Marks : 20

SECTION – A

Answer **all** questions. **Each** question carries **1** mark :

1. What are constellations ? Give one example.

2. What is meant by ecliptic ?

3. How do we predict the birthstar of a person in Kerala culture ?

4. How do we express the power of binoculars ?

5. What is the advantage of modern telescope ?

6. What are nakshatras ? Give one example.   (6×1=6)

SECTION – B

Answer **any 4** questions. **Each** question carries **2** marks :

7. Give a note on the birth of a star.

8. What is meant by zodiac ? Explain the importance of zodiacal constellations.

9. What are circumpolar constellations ? Explain the features of the constellation Ursa minor.

10. Briefly explain the astrophysics in the ancient and new era.

11. Give a brief note on the origin of astrology.

12. Describe briefly the expansion of astrology.   (4×2=8)

SECTION – C

Answer **any 1** question. **Each** question carries **6** marks :

13. Explain the origin of the universe.

14. What are the advantages and disadvantages of unaided visual observation of sky ?

                                                                   (1×6=6)

Reg. No. : ....

Name : ....

V Semester B.A./B.Sc./B.Com./B.T.T.M./B.B.A./B.B.A.-T.T.M./B.B.A.-A.H./B.C.A. /B.A. Afsal-Ul-Ulama/B.S.W. Degree (CBCSS – OBE – Regular/Supplementary/Improvement) Examination, November 2022
(2019 Admission Onwards)
Open Course
5D04PHY : JOY OF STAR WATCHING

Time : 2 Hours

Max. Marks : 20

SECTION – A

Answer **all** questions. **Each** question carries **1** mark.

1. Define the term 'celestial sphere'.

2. What are variable stars ?

3. What do you understand by magnitude of stars ?

4. Polaris is located in which constellation ?

5. What is meant by right ascension ?

6. The dark areas found in milky way are _____.

(1×6=6)

SECTION – B

Answer **any 4** questions. **Each** question carries **2** marks.

7. Discuss the two major types of telescopes.

8. Distinguish between the equatorial and alt-azimuth mounting of telescopes.

9. What is meant by vernal equinox and autumnal equinox ?

10. What are comets ? Why do comets have tails ?

P.T.O.

V Semester B.A./B.A. Afsal-Ul-Ulama/B.Sc./B.Com./B.T.T.M./B.B.A./
B.B.A-T.T.M./B.B.A.-A.H./B.C.A./B.S.W./B.M.M.C. Degree (CBCSS-OBE-
Regular/Supplementary/Improvement) Examination, November 2023
(2019 – 2021 Admissions)
Generic Elective Course
5D 04 PHY : JOY OF STAR WATCHING

Time : 2 Hours

Max. Marks : 20

PART – A

Answer **all** questions. **Each** carries **1** mark.

1. Give the name of the star Alpha Canis Majoris.
2. What is the image of Sagittarius constellation in Indian astronomy ?
3. Why can't we see the complete spiral structure of Milky way ?
4. Name the constellation in which the Pleiades star cluster belongs to.
5. Telescopes are not useful to view the constellations. Why ?
6. What is ecliptic ?

(6×1=6)

PART – B

Answer **any four** questions. **Each** carries **2** marks.

7. Write a note on the Taurus constellation.
8. What are white dwarf and neutron star ?
9. What is a main sequence star ?
10. Draw the Orion constellation connecting the 7 main stars and mark the location of M32 nebula.
11. The power of a binoculars is expressed as 8x30. What do these numbers represent ?
12. What are the pros and cons of altazimuth mount over equatorial mount ? (4×2=8)

PART – C

Answer **any one** question. **Each** carries **6** marks.

13. Discuss the observational evidences which support Big Bang theory.
14. Write brief notes on the following in the context of Kerala astronomy.
    i) Navagrahas
    ii) Njattuvela
    iii) Janmanakshatra.

(1×6=6)

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V Semester B.A./B.Sc./B.Com./B.B.A./B.B.A. (T.T.M.)/B.B.A. (R.T.M.)/
B.B.M./B.T.T.M./B.C.A./B.S.W./B.A. Afsal-Ul-Ulama/B.B.A.(AH) Degree
CBCSS (OBE) – Regular Examination, November 2021
(2019 Admission Only) Open Course
5D05PHY : ELECTRICITY IN DAILY LIFE

Time : 2 Hours   Max. Marks : 20

PART – A

Answer **all** questions. **Each** question carries **1** mark.

. The flow of the electrical charge or power is called _____

. The electricity is produced from sunlight by _____

. Renewable energy sources are also known as _____

. Write the name of the method to produce electricity from water.

. Write one method to conserve electricity.

. Generators are used to _____   (6×1=6)

PART – B

Answer **four** questions. **Each** question carries **2** marks.

. What is electricity auditing ?

. Distinguish between conventional and non-conventional energy sources.

. Write two uses of electricity.

). What is meant by 'misuse of electricity' ?

. Write two methods to save electricity.

2. What is tidal energy ?   (4×2=8)

PART – C

Answer **any one** question. **Each** question carries **6** marks.

3. Briefly describe different methods to produce electricity.

4. How is electricity generated and distributed ?   (1×6=6)

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