Reg. No. | | | | | | | | | |

BSCPHO 283

Choice Based Credit System IV Semester B.Sc. Degree Examination, September 2022
(2020-21 Batch Onwards)
PHYSICS (Open Elective)
Basics of Communication and Astronomy

Time : 2 Hours | Max. Marks : 40

***Instruction** : Answer questions from **all** Parts.*

PART – A

1. Answer **any four** of the following questions : **(4×1=4)**

   a) What is an antenna ?

   b) What is uplink ?

   c) Mention one use of satellite.

   d) Name invisible region of light beyond violet color.

   e) What do you mean by solar cycle ?

   f) What is the percentage of dark matter in the Universe ?

2. Answer **any four** of the following : **(4×2=8)**

   a) What is television ? Explain.

   b) What are transducers ? Give an example.

   c) Write the block diagram of electronic communication.

   d) What is Astronomy and who is founder of Astronomy ?

   e) What is a satellite ? Name the natural satellite of the earth.

   f) Write Chandrashekhar Limit and explain.

P.T.O.

PART – B

Unit – I

3. a) Explain the working of optical fiber communication.
   b) Write any four disadvantages of satellite communication.
   c) Write differences between amplitude modulation and frequency modulation. **(4+4+6)**

OR

4. a) What are 1G, 2G and 3G ?
   b) Explain working of loud speaker.
   c) Explain revolution in electronic communication. **(4+4+6)**

Unit – II

5. a) Explain steady state theory.
   b) What are Corona and Sunspots ?
   c) Explain Stellar evolution. **(4+4+6)**

OR

6. a) Explain with a neat diagram of formation of Lunar Eclipse.
   b) State and explain Newton's law of Gravitation.
   c) State and explain Kepler's law of Planetary motion. **(4+4+6)**
