

M.SC.(Phy.) Semester - 4 (CBCS) Examination
May/June-2021 (NEW COURSE)
Electronic Communication (Elective)

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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Que-1 Answer The Following Questions. (14)

- A. Write a note on ground wave radio propagations
- B. Write a note on duct propagation and tropospheric scatter propagation in detail.

Que-2 Answer The Following Questions. (14)

- A. What is frequency shift keying? Discuss working of FSK-transmitter and receiver with neat diagrams.
- B. Describe BPSK technique of digital modulation in detail.

Que-3 Answer The Following Questions. (14)

- A. What are the satellite orbital patterns and Write a note on geo-stationary satellite
- B. Draw the internal layout of a communication satellite and explain function of each section in detail including uplink & down link models and transponder

Que-4 Answer The Following Questions. (14)

- A. Derive an expression of transmission line
- B. Write a note on rectangular waveguide.

Que-5 Answer The Following Questions. (14)

- A. Write a brief note on Classification of optical fiber.
- B. Explain Physics of propagation of light through optical fiber.
