

S.No. 1882

12UELE07

(For the candidates admitted from 2012–2013 onwards)

B.Sc. DEGREE EXAMINATION,  
NOVEMBER 2017.

Fifth Semester

Electronics and Communication

Elective — SATELLITE, CABLE AND DTH SYSTEMS

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. How does a communication satellite work?
2. What is a direct broadcast satellite?
3. What are the sources of cable signals?
4. Define cable television.
5. What is SITE?
6. Write the abbreviation of DTH.
7. List down the components in DTH system.



8. What is the use of a telephone jack?
9. Expand LNB.
10. Write how LNB can be tested.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Write short note on INSAT.
- Or
- (b) Define about the geostationary satellite.
12. (a) Explain about the cable television networks.

Or

- (b) Write short note on scrambling of TV signals.
13. (a) Write short note on the working of DTT.

Or

- (b) What are the basics of Digital satellite TV?
14. (a) Define the basics of working of the DTH.
- Or
- (b) What causes the long delay in changing channels for satellite television?

15. (a) Explain about the dish antenna connection procedures.

Or

- (b) Explain about the reception of DD direct plus.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE out of Five questions.

16. Explain briefly about the domestic broadcasting satellites and name few of them.
17. Describe briefly about the Bi-directional networks.
18. Explain briefly with neat diagrams about Digital satellite reception.
19. Explain briefly about the additional accessories of DTH.
20. Describe briefly about the TV/Radio channels on DD direct plus.