

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086.
(For candidates admitted during the academic year 2008-09 & thereafter)

SUBJECT CODE : PH/ME/CS24

B.Sc. DEGREE EXAMINATION APRIL 2011
BRANCH III - PHYSICS
SECOND SEMESTER

COURSE : MAJOR – ELECTIVE
PAPER : COMMUNICATION SYSTEMS
TIME : 3 HOURS

MAX. MARKS : 100

SECTION – A

(10 x 3 = 30)

Answer All the Questions:

1. Define Amplitude modulation.
2. What is pulse width?
3. Define Electromagnetic Wave.
4. What is Ionosphere?
5. Explain the principle of radar in brief.
6. What is Klystron?
7. Define Optical Fibre.
8. What is (LAN)?
9. Define LCD.
10. What is networking?

SECTION - B

Answer any Five questions:

(5x 6= 30)

11. Write note on frequency modulation.
12. Mention some features of ground waves.
13. Give some applications of radar.
14. Write note on Types of fibers.
15. Discuss sources of fibre loss. Discuss any two in detail.
16. Explain working of Klystron oscillator.
17. Give a brief description about Mobile communication.

SECTION - C

Answer any Two questions:

(2 x 20 = 40)

18. a. Explain amplitude modulation.
b. Obtain expression for amplitude modulated wave.
19. Give the block diagram and explain the optical fibre communication systems.
20. a. Derive Radar range equation.
b. Explain Radar System with block diagram.
21. Write short note on a) Sky waves b) Doppler radar
c) Structure of optical fibre d) Communication satellite
