S.No. 2682 **12 UCSN 01**

(For the candidates admitted from 2012-2013 onwards)

U.G. DEGREE EXAMINATION,
NOVEMBER/DECEMBER 2014.

Third Semester

NMEC — FUNDAMENTALS OF INFORMATION TECHNOLOGY

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define open source code.
2. What is a transistor?
3. What is microprocessor?
4. What is a clock in processor?
5. What is a repeater?
6. What do you mean by GPS?
7. What is a packet?

8. Define : protocol.

9. Define the term hacker.

10. Define firewall.

PART B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Write the difference b/w analog and digital representations of information.

Or

(b) Explain any one method for converting decimal to binary with example.

12. (a) List out the factors that effect computer performance.

Or

(b) Write short notes on the evolution of programming languages.

13. (a) What is multiplexing? Explain.

Or

(b) Write a note on different types of fiber-optic cables.

14. (a) Explain star topology.

Or

(b) Write short notes on following :

(i) leased private lines.

(ii) digital subscriber line.

15. (a) Write short note on functions of a n/w firewall.

Or

(b) Explain about biometric identifiers in detail.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Write short notes on :

(a) ASCII

(b) Unicode

(c) EBCDIC.

17. Discuss about the different types of storage technologies.

18. Benefits and drawbacks of fiber-optic technology.

19. Write note on following :

(a) Private N/W

(b) Internet services

(c) ATM.

20. Explain the types of attacks in detail.

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