IT-301/IT/3rd Sem/2014/N

INFORMATION TECHNOLOGY

Full Marks - 70

Pass Marks - 28

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer question Nos.1 and 2 and any five from the rest.

- 1. (i) Choose the correct answer from the following:
 - (1) The second generation of computers used
 - (a) IC-chip
 - (b) Transistors
 - (c) Vacuum tubes
 - (d) Microprocessor.
 - (2) The language that the computer can understand and execute is
 - (a) Machine language
 - (b) Application software
 - (c) System program
 - (d) None of the above.

[Turn over

(3)	is a symbol. (a) Processing (b) Terminal (c) Input/output (d) Decision.
(4)	Which media does not come under the guided media? (a) Optical fibre (b) Co-axial cable (c) Microwave (d) Twisted pair.
(5)	Which of these is not an E-commerce activity? (a) B2B (b) C2B (c) B2A (d) C2C.
(a) (b) (c) (d)	ite the full form of the following: 5 FTP HTTP EDVAC FORTRAN ENIAC.
7/IT-301/IT	(2)

- (i) Convert the following numbers to their binary equivalent: 2+3=5
 (a) 1694₁₀
 (b) 2614₈
 - (ii) Encode the given string MALAYALAM using shanon fano algorithm.
- 3. Discuss about the first generation of programming language and state its advantages and disadvantages.
- 4. What is RAM? Differentiate between static and dynamic RAM. 4+6=10
- 5. What is network topology? Describe three network topologies and state their relative advantages and disadvantages. 1+9=10
- 6. What is an operating system? What are the main functions of an operating system? Explain.

 4+6=10
- 7. What is DBMS? Explain various components of DBMS. 2+8=10
- 8. Differentiate between the following: 6+4=10
 - (a) Lossless and lossy data compression technique.
 - (b) Data and information.

9. Define the following:

5×2=10

- (i) URL
- (ii) Compiler
- (iii) Router
- (iv) Search engine
- (v) E-mail.