Total No. of printed pages = 3 Co-301/CA/3rd Sem/2014/N

COMPUTER APPLICATION

Full Marks - 70

Pass Marks – 28

Time - Three hours

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

Answer question No.1 and any four from the rest.

- 1. Answer in brief : $2 \times 5 = 10$
 - (a) What is a computer memory ?
- (b) Name four network devices.
 - (c) What is an ISP ?
 - (d) State the bases of the various number systems.
 - (e) What is a machine language ?
- 2. (a) Define : software and hardware. What is a system software and application software?
 - (b) State the functions of O.S and briefly explain them. 8+7=15

[Turn over

- 3. (a) Differentiate between :
 - (i) LLL and HLL
 - (ii) Static RAM and dynamic RAM.
 - (b) What is a bit, byte and nibble ?
 - (c) Explain the functions of CPU.

3+3+3+6=15

- 4. (a) Convert the following :
 - (i) 123.45₁₀ into binary
 - (ii) 11011101₂ to hexadecimal
 - (iii) ABC_µ into decimal
 - (iv) 0101110101₂ into octal.
 - (b) What do you mean by sign-magnitude representation? Why 2's complement method is used in computer systems ?
 - (c) Perform $7_{10} 5_{10}$ using 2's complement method. 8+4+3=15
- 5. (a) Define : LAN, MAN, WAN.
 - (b) What is a network topology? State the different topologies used in networking.
 - (c) Why networking is necessary ? 6+4+5=15

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- 6. (a) State and explain different transmission mediums in use.
 - (b) What is a language translator ? State the differences between compiler and interpreter. 10+5=15
- 7. Write short notes on any three : $3 \times 5 = 15$
 - (a) Operating system classification
 - (b) Number system
 - (c) Router
 - (d) Ring topology
 - (e) Flow chart.