Paper Code: BCA-105

Subject: Fundamentals of Computers & IT

(6.5)

END TERM EXAMINATION

FIRST SEMESTER [BCA] FEBRUARY 2023

Time: 3 Hours Maximum Marks: 75 Note: Attempt all questions as directed. Internal choice is indicated. Q1 Attempt any five questions:-(5x5=25)(a) List and explain five important characteristics of a computer. (b) Explain the five Basic functions performed by a computer system. (c) Differentiate between Multitasking and Multiprogramming. (d) Distinguish between LAN, MAN, WAN. (e) Define the Term byte. What is the difference between a bit and byte. (f) Write full form of the following:- (a) GUI (b) CUI (c) BASIC (d) FORTRAN (e) MICR. UNIT-I Q2 (a) What is generation in Computer terminology? Explain various computer generations along withkey characteristics of computers of each generation. (6.5) (b) Explain the following:- (i) Data (ii) Information (iii) RAM (iv) ROM (v) CPU (vi) Auxillary Memory OR (a) Define Memory? Explain different type of Memory in Computer System with Q3 the help of diagram. (b) Write short notes on the Following:-(6)(i) Static Memory and Dynamic Memory (ii) EPROM AND EEPROM UNIT-II Define Operating System? Explain the role of an operating system with respect Q4 to following Function:-(a) Process Management (b) Memory management (c) Device Management (d) Security (e) Command interpretation OR Q5 (a) Define the following Terms:-(8)(i) Multiprogramming (ii) Multitasking (iii) Multithreading (iv) Multiprocessing (b) Give Difference between:-(4.5)(i) Assembler and Loader (ii) Interpreter and compiler (iii) Linker and Loader UNIT-III Q6 Convert the following:-(2.5x5=12.5)(a) Convert 23 from base 10 to base 8. (b) Convert 101011011 from base 2 to base 8. (c) Convert 234 from base 8 to base 10. (d) Convert E16 from base 16 to base 10. (e) Perform binary addition of (12) +(18). Q7 (a) What is Computer Network? Explain. (b) Discuss the various Network topologies along with their advantages and (10)(a) Discuss various data transmission media. Q8 (b) Differentiate between Digital and Analog Transmission. (6)


