1ˢᵗ Sem. Computer Engg.

Subject : Computer Fundamentals and IT

Time : 3 Hrs.   M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts.   (15x2=30)

Q.1 a) Name any four input devices.

b) Define Operating System.

c) Define word length of a processor.

d) Which generation of computer uses Vacuum Tubes?

e) Define Memory.

f) List Various components of windows.

g) Define a File.

h) What is Disk defragmentation?

i) Define Screen resolution.

j) Define Computer Network.

k) Define flowchart.

l) Define Algorithm.

m) Define DNS.

n) What is the use of Search engine?

o) Draw symbols used for input and output in a Flowchart.

p) Draw URL.

q) Define web Browser.

r) Define a Folder.

SECTION-B

Note: Short answer type questions. Attempt any ten parts   10x4=40

Q.2 i) Write down the steps involved for uninstalling a software using control panel.

ii) Draw the labeled diagram of a Computer and show the interaction between CPU, Memory, Input/Output devices.

iii) List various types of memory used in computers.

iv) Write various symbols used in Flowchart.

v) Define Software. Give its various types.

vi) Define DOS. Explain any eight internal commands.

vii) Explain various number systems used in computers.

viii) Write down the steps involved in installing a printer using control panel.

ix) Explain installing a hardware using control panel.

x) Differentiate between internet and intranet.

xi) Differentiate LAN vs. WAN

xii) What do you mean by social sites? What is their usage?

xiii) Draw a Flow chart to find whether entered number is EVEN or ODD.

xiv) Write an algorithm to find the Fibonacci series.

xv) Convert the following Hexadecimal number to its octal equivalent $(ABF5)_{16}$

SECTION-C

Note: Long answer type questions. Attempt any three questions.   3x10=30

Q.3 Write the step by step procedure including diagrams to Change resolution, color and screen saver option of Display.

Q.4 Write various generation of Computers with their advantages and disadvantages.

Q.5 Write the algorithm and draw the flowchart to find the sum and average of three numbers.

Q.6 Write short note on :

i) WWW   ii) FTP

Q.7 Write down the various steps involved in problem solving using a suitable example.

Q.30 What do you mean by URL? Explain structure and types of URL. (CO-3)

Q.31 What is an Algorithm? Describe various steps of Algorithm development. (CO-4)

Q.32 What is Flowchart ? Explain its Advantages and Limitations. (CO-4)

SECTION-D

Note: Long answer type questions. Attempt any three questions. (3x10=30)

Q.33 What do you understand by Memory? Explain various types of memory used in a computer. (CO-1)

Q.34 What is MSDOS? Explain the internal and external commands in MSDOS with syntax. (CO-2)

Q.35 Explain the different internet connection methods in detail. (CO-3)

Q.36 What is the need of programming? Explain the steps involved in a problem solving. (CO-4)

(**Note:** Course outcome/CO is for office use only)

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SECTION-A

Note: Objective type questions. All questions are compulsory. (10x1=10)

(Course Outcome/CO)

Q.1 OCR Stands for _____ (CO-1)

Q.2 LCD Stands for _____ (CO-1)

Q.3 DRAM Stands for _____ (CO-1)

Q.4 Write the full form of ASCII & EBCDIC (CO-1)

Q.5 FAT Stands for _____ (CO-2)

Q.6 The file manager of window is called _____ (CO-2)

Q.7 URL Stands for _____ (CO-3)

Q.8 _____ is a sequence of instructions written in simple language to solve a problem. (CO-4)

Q.9 HTML Stands for _____ (CO-3)

Q.10 _____ are used to indicate the flow of operations or execution of a program. (CO-4)

SECTION-B

Note: Very Short answer type questions. Attempt any ten parts (10x2=20)

Q.11 Convert $(9F)_{16}$ to Decimal Number. (CO-1)

Q.12 What is the difference between RAM and ROM? (CO-1)

Q.13 Tell any four secondary memory devices. (CO-1)

Q.14 Define Operating System. (CO-2)

Q.15 Define Desktop? (CO-2)

Q.16 What are wildcards? (CO-2)

Q.17 What is MODEM? (CO-3)

Q.18 What is IP Address? (CO-3)

Q.19 What is Search Engine? Name any four search engines used today. (CO-3)

Q.20 Define SMTP. (CO-3)

Q.21 What do you understand by Debugging? (CO-4)

Q.22 Differentiate between Flowchart and Algorithm. (CO-4)

SECTION-C

Note: Short answer type questions. Attempt any eight questions. (8x5=40)

Q.23 What is Computer? Explain the block diagram of computer. (CO-1)

Q.24 (i) Converting $(11100.011)_2$ to Decimal Number. (CO-1)

(ii) Converting $(3A7)_{16}$ into Binary Number. (CO-1)

Q.25 What do you mean by input devices? Explain any five Input device in detail. (CO-1)

Q.26 Explain the process of changing the system Date and time. (CO-2)

Q.27 What are the features of window desktop? (CO-2)

Q.28 Explain the procedure for changing color Resolution, Appearances of the display. (CO-2)

Q.29 What is Computer Network? Explain various types of Network in detail. (CO-3)

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SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts.   (15x2=30)

Q.1 a) _____ is considered to be the father of modern digital computers.

b) Define Data.

c) What do you mean by a microprocessor?

d) Write various function performed by Input unit.

e) Define BCD codes.

f) Transistors are used in which computer generation?

g) Define Cache Memory.

h) Write various operations performed by ALU.

i) What is the full from of ASCII code?

j) Define computer language.

k) Define E-Mail.

l) Define Internet.

m) What are wild card characters?

n) Define Operating System.

o) What is the usage of FTP?

p) Define processor Speed.

q) Which number system computer uses to perform various positions?

r) What is the role of Modem in accessing Internet?

SECTION-B

Note: Short answer type questions. Attempt any ten parts   10x4=40

Q.2 i) Define DOS. Explain any eight external commands.

ii) Write down various characteristics of Computer.

iii) What is the usage of CPU in a Computer? Name its various functional parts.

iv) Differentiate between RAM and ROM.

v) What do you mean by formatting a Floppy Drive? How it is performed?

vi) Differentiate between algorithm and flowchart.

vii) Give the usage of storage devices in computer system.

viii) Write down various uses of Internet.

ix) Describe address format of IP address.

x) Write down the step by step process of installing a printer using control panel.

xi) Convert $(110110110101)_2$ to its hexadecimal and octal equivalent.

xii) Write down the steps involved in changing the system date and time using control panel.

xiii) What is the purpose of Web Browser software? How it is used?

xiv) Write an algorithm to find the cube of a given number.

(3)   170814

xv) Explain the process of sending and receiving E-Mail.

SECTION-C

Note: Long answer type questions. Attempt any three questions.   3x10=30

Q.3 Explain various input/output devices used in computer system.

Q.4 Write various steps involved in algorithm development using suitable example.

Q.5 Write down various components of window and describe the function of each component with the help of a labeled diagram.

Q.6 Give the classification of computers based on size and processor.

Q.7 Write short note on:-

(i) Telnet

(ii) E-Mail.

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1st Year. / Computer

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SECTION-A

Note: Objectives questions. All questions are compulsory   (10x1=10)

(Course Outcome/CO)

Q.1   ROM stands for _____   (CO-1)

Q.2   Output from a printer to paper is _____ copy.   (CO-1)

Q.3   1 Kilo byte=_____ bytes   (CO-2)

Q.4   BOSS stands for _____   (CO-2)

Q.5   Information on a computer is stored in the form of _____   (CO-2)

Q.6   LAN stands for   (CO-3)

Q.7   HTTP stands for   (CO-7)

Q.8   VSAT stands for   (CO-7)

Q.9   The Electronic mail popularly known as _____   (CO-9)

Q.10 _____ symbol is used to extend a very long flow chart on next page.   (CO-4)

SECTION-B

Note: Very Short answer type questions. Attempt any ten parts   10x2=20

Q.11 State four input devices   (CO-1)

Q.12 What is Cache memory?   (CO-2)

Q.13 What is main function of memory?   (CO-2)

Q.14 What is Directory?   (CO-4)

Q.15 What is ICON   (CO-4)

Q.16 What is Toolbar?   (CO-4)

Q.17 What is Broadband?   (CO-3)

Q.18 What is purpose of Web browser? (CO-7)

Q.19 What is search engine? (CO-7)

Q.20 What is Telenet? (CO-8)

Q.21 What is Coding? (CO-4)

Q.22 What is Algorithm? (CO-4)

SECTION-C

Note: Short answer type questions. Attempt any eight questions. 8x5=40

Q.23 Define Digital computers. (CO-1)

Q.24 Converting BINARY into Decimal (10110101)? (CO-2)

Q.25 Define ALPHANUMERIC CODES (CO-2)

Q.26 How will install a printer in Window (CO-4)

Q.27 Discuss DOS and window operating system. (CO-4)

Q.28 Why is the need of operating system. (CO-4)

Q.29 Short note on UNIX and LINUX (CO-4)

Q.30 Define wide area network. (CO-7)

Q.31 Why is need of programming? (CO-4)

Q.32 Write and algorithm to count number of males out of 1000 people of a town. (CO-4)

SECTION-D

Note: Long answer type questions. Attempt any three questions. 3x10=30

Q.33 Discuss generation of computer. (CO-1)

Q.34 Explain the parts of application window. (CO-4)

Q.35 Short note on URL and HTML (CO-7)

Q.36 Explain flowchart, its advantages and limitations. (CO-4)