

P.G. Diploma in Computer Graphics and Animation
First Semester
CGA-14: Computer Fundamentals

Time allowed: 3 Hours

Max. Marks: 80

NOTE: Attempt five questions in all, including Question No. IX (Section-E) which is compulsory and selecting one question each from Section A-D.

x-x-x

Section A

- I. (a) What is an Operating system? Explain its applications and services.
(b) Differentiate the following:
i. Loaders and Linkers
ii. Compilers and Assemblers
iii. Bit, Byte and Word (8,8)
- II. (a) Explain the role of character codes ASCII and EBCDIC in the working of a computer.
(b) Convert the following
i) $(10011)_2$ into Octal and Decimal system
ii) $(2322)_8$ into Binary and Decimal system (8,8)

Section B

- III. (a) What is memory? Describe different types of memories used in a computer system.
(b) How data is organized on a disk? Also differentiate between disk and tape on the basis of technology and speed. (8, 8)
- IV. Write short note on the following.
i. Instruction Execution Cycle
ii. Virus Detection and Prevention (8, 8)

Section C

- V. (a) Write purpose, syntax and examples of the following: SCANDISK, XCOPY, UNDELETE, DELTREE commands
(b) Write the role of 'Network Neighborhood' and 'Accessories' in Windows OS. (8, 8)
- VI. (a) Write the syntax and examples of file management commands in UNIX.
(b) What is a process? Which commands are used to manage them in UNIX? (8, 8)

Section D

- VII. (a) What is the role of paragraph and page formatting in Word Processing? Write steps to perform these operations.
(b) Write commands and steps for the following:
i) Opening and creating documents
ii) Saving a document
iii) Printing a document (8,8)
- VIII. (a) What is a spreadsheet? Write all the steps and commands to prepare, save and retrieve a worksheet by taking suitable example.
(b) Explain the main features of Presentation Software. Also describe Design templates. (8,8)
- IX. **Write Short Answers**
a. Differentiate between warm and cold booting.
b. Differentiate between VGA and SVGA.
c. What is Seek time?
d. Write steps to rename a Folder in Windows OS.
e. Describe any two Statistical functions available in Spreadsheet software.
f. Describe Print Preview.
g. What is an Interrupt?
h. How can we empty the Recycle Bin? (8*2)