

JUNE 2008**Code: DE14****Subject: COMPUTER SOFTWARE FUNDAMENTALS****3 Hours****Max. Marks: 100****NOTE: There are 9 Questions in all.**

- **Question 1 is compulsory and carries 20 marks. Answer to Q. 1. must be written in the space provided for it in the answer book supplied and nowhere else.**
 - **Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks.**
 - **Any required data not explicitly given, may be suitably assumed and stated.**
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Q.1 Choose the correct or best alternative in the following: (2x10)

- a. If data is processed as it arrives, this type of data processing is called
- (A) Real time processing. (B) Batch processing.
(C) Off line processing. (D) Distributed processing.
- b. The memory that is to be refreshed many times per second is
- (A) SRAM (B) DRAM
(C) EPROM (D) EAROM
- c. The printer that prints a page at a time is
- (A) Dot matrix printer (B) Thermal wax
(C) laser printer (D) Inkjet printer
- d. The operating system that uses write through cache is
- (A) UNIX (B) DOS
(C) ULTRIX. (D) XENIX
- e. Moving process from a main memory to a disk is called
- (A) Scheduling (B) Caching
(C) Swapping (D) Spooling
- f. Preparing a magnetic disk for data storage is called
- (A) Booting (B) Formatting
(C) Debugging. (D) Commissioning
- g. While running DOS on a PC, the command that is used to duplicate the entire diskette?
- (A) COPY. (B) DISK COPY
(C) CHK DISK. (D) TYPE

- h. While using DIR command, _____ which option, amongst the following cannot be used with it
- (A) /P. (B) /W.
(C) /S. (D) /T
- i. _____ is not an utility program
- (A) Debugger (B) Editor.
(C) Spooler. (D) Defragmenter.
- j. Which of the following files is automatically executed at the time of booting of computer?
- (A) AUTOEXEC.BAT (B) DIR
(C) COPY (D) MD

**Answer any FIVE Questions out of EIGHT Questions.
Each question carries 16 marks.**

- Q.2** a. Draw a flow chart to find the sum of the series $S = 1^2 + 2^2 + 3^2 + 4^2 + \dots + n^2$. (8)
- b. Construct a decision table to find out whether a given triangle ABC is isosceles or not. (8)
- Q.3** a. From the given three sides of a triangle, write an algorithm to find whether a triangle can be formed or not. (8)
- b. Compare the modular programming technique with structured programming technique. (8)
- Q.4** a. Write a program in FORTRAN to read two positive real numbers and print the largest among them. (8)
- b. Give the advantage of high level languages over the assembly language and machine languages. (8)
- Q.5** a. COBOL is often referred as a self-documenting language. Explain? (6)
- b. Explain the errors that cannot be detected by a compiler. (4)
- c. How are the multiple source program files compiled and linked to generate executable program? (6)

- Q.6** a. Explain the three methods used for disk spaced allocation. (8)
- b. Name the special categories of software that improve the capability of the software. Explain the category, which deals with system maintenance tests. (8)
- Q.7** a. Give the advantages and disadvantages of Linux. (8)
- b. List the advantages and limitations of multiprocessing systems. (4)
- c. List and briefly explain the functions of operating system. (4)
- Q.8** a. What is absolute cell addressing in a worksheet? How does it differ from relative cell addressing? (4)
- b. What are the two types of data that can be inserted in a cell of a worksheet? Give examples. (4)
- c. Explain the steps followed to insert a formula in the cell of a work sheet. (4)
- d. Give the sequence of steps to draw the bar graph in an EXCEL spread sheet with an example. (4)
- Q.9** a. What is justification? Explain briefly the ways a paragraph in a MS word document can be justified. (6)
- b. Write a short note on features: Drag-and-drop objects, and paint drawings and pictures of a graphic package. (6)
- (6)
- c. Write the steps to create a table with 5 rows and 4 columns indicating item, rate, quantity and amount. Fill the amount column automatically by inserting a formula. (4)