

DipLETE – ET (OLD SCHEME)

Code: DE14

Subject: COMPUTER SOFTWARE FUNDAMENTALS

Time: 3 Hours

Max. Marks: 100

JUNE 2010**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.

Q.1 Choose the correct or the best alternative in the following: (2×10)

- a. Which one of the following is not a language processor?
- (A) Compiler. (B) Interpreter.
(C) Operating system. (D) Assembler.
- b. Which language is suitable for solution of business problems?
- (A) BASIC (B) COBOL
(C) C (D) PASCAL
- c. The word “OLE” in windowing environment means _____.
- (A) Object Linking and Embedding (B) Object Link Environment
(C) Object Link Engine (D) None of the above.
- d. Which file is not a constituent of a bootable disk?
- (A) IO.SYS. (B) MSDOS.SYS.
(C) Command.com. (D) CONFIG.SYS.
- e. Which one is an Application Software?
- (A) DOS. (B) MS-Office.
(C) Unix. (D) Windows.
- f. Stepwise refinement technique is an example of _____.
- (A) modular Programming (B) top-down design
(C) structured programming (D) None of the above.
- g. Shortcut key for selecting the entire document is _____.
- (A) Ctrl + A (B) Ctrl + C
(C) Ctrl + D (D) Ctrl + V

- h. MS-EXCEL files are associated with extension _____.
- (A) .doc (B) .xls
(C) .exe (D) .sys
- i. Where does footer appear in the document?
- (A) At the top of the page. (B) At the bottom of the page.
(C) Only on the first page. (D) Only on the first section.
- j. _____ translates the program line by line.
- (A) Interpreter (B) Compiler
(C) Assembler (D) Linker

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

- Q.2** a. Define and explain the term “Program”. What are various techniques of designing the program? (8)
- b. Draw a flowchart for generating first n ($n \geq 2$) Fibonacci terms. (Fibonacci terms are 0,1,1,2,3,5,8,13,21,.....). (8)
- Q.3** a. What are Language Translators? Explain various types of Language Translators. (8)
- b. List various functions that a loader performs. What are various types of loaders? (4)
- c. Differentiate between Top-down and Bottom-up approach of program design. (4)
- Q.4** a. Define Operating System. List various functions that an Operating System performs. (8)
- b. Differentiate between an Application Software and System Software. (8)
- Q.5** a. Describe how DOS works? What are various types of DOS commands? (8)
- b. Write the syntax and purpose of following DOS commands: (8)
- (i) COPY
(ii) DIR
(iii) DELTREE
(iv) ATTRIB
- Q.6** a. What do you mean by a Programming Language? Differentiate between Problem oriented and Procedure oriented Languages. (4)

- b. List various advantages and limitations of High Level Languages. (4)
- c. Write a program in C to reverse a number. (8)
- Q.7** a. Differentiate between Multiprogramming and Multitasking. (8)
- b. Differentiate between I/O bound program and Compute bound program. (4)
- c. Differentiate between Single user and Multiuser Operating System. (4)
- Q.8** a. Write steps to do the following in MS-Word: (8)
- (i) Deleting and Moving text.
 - (ii) Justifying text.
 - (iii) Search and replace text.
 - (iv) Put repetitive information in the documents top and bottom margins.
- b. Define and explain the following in relation with MS-Excel:
- (i) Macros (4)
 - (ii) Cell and Range (4)
- Q.9** a. Describe the concept of File Management. What are various types of file access methods that are used at Operating System level? (8)
- b. Write short note on: (8)
- (i) Pseudocode.
 - (ii) Windows Operating System.