

SEAT No. _____

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SARDAR PATEL UNIVERSITY

T.Y.B.C.A. (SEM-VI) EXAMINATION March-April-2018

US06FBCA01 : System Software

Date: 26/03/2018, Monday

Time: 02:00 to 05:00 PM

Total Marks : 70

Q.1 Multiple choice questions:

[10]

- 1 _____ governs the formation of valid statements in the source language.
A. Specification Rules
B. Lexical Rules
C. Syntax Rules
D. Semantic Rules
- 2 The gap between PL domain and Execution domain is called _____.
A. Semantic Gap
B. Specification Gap
C. Application Gap
D. Execution Gap
- 3 _____ Data structure is used in synthesis phase.
A. Symbol table
B. DFD
C. Name table
D. All of the above
- 4 In a simple assembly language, the first operand is always _____.
A. Memory Word
B. Register
C. Assembly Mnemonic
D. None of these
- 5 The DC stands for _____.
A. Declare Constant
B. Data Constant
C. Declare Construct
D. Data Construct
- 6 Word processors are also called _____ editors.
A. Screen
B. Structure
C. Stream
D. Document
- 7 Address of the origin assumed by the translator is known as _____.
A. Linked origin
B. Load origin
C. Translated origin
D. origin
- 8 _____ is the process of modifying the addresses used in the address sensitive instructions of a program.
A. Program relocation
B. Program
C. Program location
D. None of above
- 9 _____ helps in obtaining information for localization of errors.
A. Debug Monitors
B. Profile Monitors
C. Editors
D. All of above
- 10 _____ accepts user commands specifying editing function to be performed.
A. Data Mode
B. Command Mode
C. Language Processor
D. Software Tools

Q.2 Attempt any ten out of twelve.

[20]

1. Explain symbol table management phase of compiler.
2. Define the Lexical & Semantic Rule.
3. What are structure editor and pretty printer?
4. Describe an assembly language statement format.

(1)

C.P.T.O.)

5. Explain DS and DC of declaration statements in brief.
6. Explain Branch on Condition instruction.
7. Define ENTRY and EXTRN statement of public definition.
8. List different types of Editors.
9. Difference between linking and loading.
10. Explain Debug Monitor
11. Explain: Command Language, Command Menu, Direct Manipulation
12. What is a user interfaces?

Q.3 (a) What is Language Processing? Explain Application, PL & Execution domain. [5]

(b) List the phases of a compiler and explain the analysis part of it in detail. [5]

OR

(a) List the phases of a compiler and explain the synthesis part of it in detail. [5]

(b) Explain software tools that manipulate source programs. [5]

Q.4 What is assembly language? Explain types of assembly language statements and assembler directive. [10]

OR

Q.4 Explain Elements of Assembly language programming in detail. Explain features and advantages provided by Assembly language programming in detail. [10]

Q.5 (a) Explain Translated, Linked and Load time address and origin. [6]

(b) Explain Linking and relocating with Example. [4]

OR

(a) Explain Loading with Example. [6]

(b) Explain design of Editor with figure. [4]

Q.6 (a) Explain Program Testing and Debugging. [5]

(b) Explain structure of user interface. [5]

OR

(a) Explain Program environments in brief. [5]

(b) Define Software Tools. Discuss software tools for programming development. [5]

-X-
2