



10. The Bootstrap loader loads the operating system starting at address \_\_\_\_\_.  
A. 40            B. 60            C. 80            D. 100
11. \_\_\_\_\_ contains the starting address assigned to the control section currently being scanned by the loader.  
A. PROGADDR    B. CSADDR        C. SYMTAB        D. ESTAB
12. \_\_\_\_\_ uses facilities of the operating system to load and link subprograms at the time they are first called.  
A. Linkage editors    B. Bootstrap loaders    C. Dynamic linking    D. Linking loaders
13. A macro invocation statement is often referred to as \_\_\_\_\_.  
A. Macro statement    B. Macro instructions    C. Macro call    D. Macro execution.
14. Labels used within the macro body begin with the special character \_\_\_\_\_.  
A. #            B. \$            C. =            D. @
15. The macro definitions themselves are stored in a \_\_\_\_\_.  
A. DEFTAB            B. NAMTAB            C. SYMTAB            D. ARG TAB
16. In a macro prototype, each parameter name is followed by an equal sign, which identifies a \_\_\_\_\_.  
A. Positional parameter    B. Keyword parameter    C. &BUFADR    D. &INDEV
17. A computer program that allows a user to create and revise a target document called as \_\_\_\_\_.  
A. Compiler            B. Loader            C. Linker        D. Interactive editor
18. \_\_\_\_\_ provides an easily understood abstraction of the target document and its elements, with a set of guidelines.  
A. Perceptual model    B. Logical Model    C. User Model    D. Conceptual Model.
19. \_\_\_\_\_ component takes the idealized view from the viewing component and maps it to a physical output device in the most efficient manner.  
A. Display component  
B. Editing component  
C. Traveling component  
D. Viewing component
20. Which can be used to track the flow of execution logic & data modifications?  
A. Debugging            B. Breakpoints            C. Tracing            D. Traceback

**PART B (5 x 16 = 80 Marks)**

21. (a) Explain in detail the architecture of a SIC /XE machine. (16)  
(OR)
21. (b) Explain briefly about the Pentium Pro Architecture. (16)
22. (a) (i) State and explain the PASS I Algorithm of an Assembler. (10)  
(ii) Write briefly about the different record types of Simple SIC Assembler object program. (6)  
(OR)
22. (b) (i) Explain briefly about the Multi-Pass Assembler with an example. (12)  
(ii) Write down the different Data Segments registers used inside the MASM Assembler. (4)
23. (a) Describe briefly about a Simple Bootstrap Loader for SIC/XE. (16)  
(OR)
23. (b) (i) With diagrams, explain how loading and calling of a subroutine is done using Dynamic linking. (12)  
(ii) List out the different record types and its description of MS-DOS linker. (4)
24. (a) What are the different data structures used by a Macro processor? Explain. (16)  
(OR)
24. (b) (i) Explain briefly about the MASM Macro Processor with an example. (12)  
(ii) Write in detail about the Concatenation of Macro Parameters. (4)
25. (a) Explain about the different components of an editor structure with its block diagram. (16)  
(OR)
25. (b) Discuss in detail about an interactive debugging system. (16)

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