Oral Questions

1. Enlist the different system software components.
2. What is Assembler?
3. What are the types of text editor?
4. What is single pass and two pass?
5. What is the difference between compiler and interpreter?
6. What are declaration statements in Assembly language?
7. Which are the data structures in Pass-I Assembler?
8. What is POT, MOT, LT and ST?
9. What is intermediate code?
10. What is object code?
11. Which are the data structures in Pass-II Assembler?
12. What is POT, MOT, LT and ST?
13. What is machine language?
14. What is machine instruction format?
15. What is the difference between macro and function?
16. What are macros? Why do we need macros?
17. Explain data structures that are used for implementing Pass I of a macro processor.
18. Explain the macro assembler facilities such as Nested Macro, Labels within Macro, Macro Parameters.
19. What are the contents of MDT and MNT?
20. Explain the algorithm of pass I of macro processor?
21. Write an algorithm for PASS-II of a two pass macro processor.
22. Explain macro expansion.
23. Draw flowchart of PASS-II of a two pass macro processor.
24. Explain nested Macro calls
25. Explain data structures that are used for implementing Pass II of a macro processor.
26. What is the input and output of pass II of macro processor?
27. What functions are involved in pass II of macro processor?
28. What is Conditional Macro Expansion?
29. Explain the contents of all the tables of pass II of macro processor.
30. Define linker and loader?
31. Which are the types of loader?
32. What is absolute address and relocatable address?
33. What is DLL?
34. How to create DLL?
35. What is the extension of DLL file in linux?
36. What is the extension of DLL file in Windows?
37. What is JNI?
38. What is compiler?
39. What is token?
40. Define lexemes.
41. What is lex?
42. What is lex.yy.c file?
43. What is the meaning of yytext?

44. What is yylex() fuction?
45. Whether lexical analyzer detects any error?
46. What is Compiler and phases of compiler?
47. What is Lex specification?
48. What is Regular Expression?
49. How to run a Lex program?
50. What is yytext, yyin, yyout?
51. What is yywrap()?
52. For which phase of compilation is YACC used?
53. What is the role of parser? YACC is which kind of a parser?
54. How the tokens generated from LEX are passed to YACC?
55. How y.tab.h is generated? What are the contents of it?
56. Explain the grammar defined in YACC file.
57. What is Lex & Yacc ?
58. What is Lex & Yacc specification?
59. What is the difference between Lex and YACC?
60. What is Regular Expression & grammer?
61. How to run a Lex & Yacc program?
62. What is yyparse()?
63. Define token, lexemes, pattern & symbol error?
64. What is left, right & no associativity?
65. What is use of $$?
66. What is yylval?
67. What is CPU Scheduling?
68. List and define scheduling criteria.
69. Define preemption & non-preemption.
70. State FCFS, SJF, Priority & Round Robin scheduling.
71. Compare FCFS, SJF, RR, Priority w.r.t. waiting time.
72. What is Bankers algorithm?
73. Who is the inventor of Bankers algorithm?
74. Define State safe and unsafe state.
75. Define deadlock.
76. Define deadlock prevention, detection and avoidance.
77. Advantages & disadvantages of Bankers algorithm.
78. What is system call?
79. What is process management?
80. State various system call with example.
81. Compare system call & system function.
82. Define user mode & kernel mode.
83. What is kernel and shell?
84. What is Android OS?
85. What is Tizen OS?
86. Compare Android vs Tizen.
87. What is process management?
88. State scheduling in android.
89. Application of Android and Tizen OS.

90. What is paging?
91. What is page replacement?
92. Define page table, page hit, page fault, page reference.
93. What is FIFO page replacement?
94. What is LRU and OPT page replacement?
95. State virtual memory.
96. Define demand paging.
97. What is the difference between physical memory and logical memory?
98. What is the difference between paging and segmentation?
99. What is Belady's Anomaly?
100. Define the concept of thrashing? What is the scenario that leads to the situation of thrashing?