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Total No. of Questions : 13] **[Total No. of Pages : 02**

Paper ID [A0222]

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BCA (502) (Old / S05) (Sem. - 5th)

SYSTEM SOFTWARE

Time : 03 Hours **Maximum Marks : 75**

Instruction to Candidates:

1) Section - A is **Compulsory.**

2) Attempt any **Nine** questions from Section - B.

Section - A

(15 x 2 = 30)

Q1)

a) How the various components of database management system are related to each other?

b) What are different types of network operating systems you know?

c) How you will differentiate between formal parameters and actual parameters with reference to macros?

d) What is the use of text editors?

e) What do you mean by lexical analysis?

f) Explain the advantages and disadvantages of using global optimization techniques.

g) Why do we need file systems?

h) Why we need linkage editors?

i) Why we need intermediate code generation?

j) Explain the role of macro expansion.

k) What is the difference between single pass and two pass assemblers?

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l) Differentiate between assembly and machine language.

m) What is the meaning of the term formal systems?

n) List the important steps in general design procedure of an assembler.

o) What does MOT indicates for each instruction?

Section - B

(9* x *5 = 45)

Q2) Write a detailed note on structure of text editors.

Q3) Give the flowchart for pass 2 of the assembler.

Q4) Explain the working of Absolute loaders with suitable example.

Q5) Discuss the process of code generation in compilers.

Q6) Write a detailed note on syntax analysis phase of a Compiler.

Q7) Discuss the important features of a macro facility.

Q8) Explain the advantages of using database systems.

Q9) Give the flow chart for Simple one-pass macro processor.

Q10)Differentiate between linking and relocation.

Q11)Write a short note on evolution of Operating systems.

Q12)Explain the use of symbol table and base table in assemblers.

Q13)Discuss the process of Address Modification Using Instruction as Data.

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