SE - 345

20 VI Semester B.C.A. Examination, September 2020 (CBCS) (F + R) (2016 – 17 & Onwards) COMPUTER SCIENCE BCA 602 – System Programming

Time: 3 Hours

Max. Marka: 100

Instruction : Answer all Sections.

SECTION - A

- Answer any ten questions, each question carries two marks. (10x2=20)
 - 1) Define : (a) System Software (b) Application Software.
 - 2) Mention any two differences between compiler and interpreter.
 - 3) Define : (a) Register operand (b) Storage operand.
 - 4) Explain : (a) USING (b) DROP.
 - 5) Write the format of MOT.
 - 6) Differentiate DC and DS.
 - 7) Differentiate AIF and AGO.
 - 8) Define macro.
 - 9) What is binder ?
 - 10) What is loader ? Mention its functions.
 - 11) What is token ? Give an example.
- 12) Explain identifier table.

SECTION - B

- II. Answer any five questions, each question carries five marks. (5×5=25)
 - 13) Explain micro flow chart for ADD instruction.
 - 14) Explain interchange sort with an example.
 - 15) What are the functions of a macroprocessor ?
 - 16) Explain "Compile and go" loader.

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- 17) Explain machine dependent optimization.
- 18) Explain address modification using instruction as data.
- 19) Explain conditional macro with an example.
- 20) Explain pseudo-op and machine-op with an example.

SECTION - C

	An	SW	er any three questions, each question carries fifteen marks	3×15=45)
	21)	a)	Explain data formats used in IBM 360 systems.	s (10–45)
		b)	Explain General machine structure of IBM 360/370 with a neat blo diagram.	ock 7
	22)	a)	Explain detailed pass-1 assembler flow chart	, 9
		b)	Explain binary search with an example	7
	23)	a)	Explain simple one pass macroprocessor with flow chart	2
		b)	Explain ALA, MDT, MNT with an example	0
	24)	a)	Explain detailed pass-1 flow chart of loader	/ 0
		b)	Describe four types of cards used in direct linking loader	0
	25)	a)	Explain the structure of a compiler with a block diagram	1
		b)	Explain syntax phase with an example	8
				1
			SECTION - D	
IV. Answer any one question, each question carries ten marks				(1~10_10)
	26)	a)	Explain formal system.	(1×10=10)
		b)	Explain Time sharing OS.	5
				5

- 27) a) Explain data bases used in pass-1 and pass-2 of an assembler. 5
 - b) Explain : (a) macro language (b) macro processor.