CODE-IRON



Marks:50

Instruction: 1) Solve any 3 questions from Q. No. 1 to Q. No. 5.

- 2) Solve any 1 question form Q. Nos. 6 & 7.
- 3) Bracketed Figures to the right indicate marks.
- **Q.1 a)** Discuss the various generations of computers bringing out the improvement in technology in each generation.

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b) What are the different ways of entering data in to the BASIC program? Give the formats of each statement with illustration.

c) Write a program in BASIC to find the sum of first 25 natural numbers.

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Q. 2 a) Distinguish between Digital and Analogue computers.

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b) State the output for each of the following set of instructions in BASIC.

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-) 10 REM * ARRANGEMENT OF LETTERS OF A WORD"
 - 20 A\$ = "TELEVISION"

30 B\$ = A\$

40 C\$ = " PROGRAM TELECAST"

50 X\$ = LEFT\$(B\$,4) + MID\$(C\$, 4,4) + RIGHT\$(C\$,4)

50 Y\$ = MID\$(A\$,5,6,)+ CHR\$(32)+ MID\$(C\$,5,4) + LEFT\$(B\$,3)

+"_" + RIGHT\$(C\$,4)

70 PRINT X\$

80 PRINT Y\$

90 END

ii) 100 A = 49 B = -6.3899 : C = 25.33: D = 3.1416

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110 P = INT(B) + SQR (INT(C))

120 Q = SQR (A) * D * SGN (B)

130 IF ABS (INT(B)) = INT (ABS (B)) THEN 170

140 R = FIXD (B) * VAL ("14SEN23")-SGN (D-C) *SQR(A)

150 PRINT P, Q, R

160 GOTO 180

170 PRINT R, Q + P

180 END

Q. 2 c) Write use of the following commands with its format.

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i) NEW

ii) LIST

iii) DIM

iv) SAVE

Q.3	a)	State whether the following statements are true or false.	4
		i) Daisy wheel printers are faster than dot matrix printers.	
	• • • •	ii) Outer track of a floppy stores large amount of data than the inner track.	
		iii) Chain printers are impact printers.	
		iv) ENIAC was the first computer to use transistors.	
	b)	1) State for what values of X, each of the following BASIC expression will hold.	2
		i) X < 9 XOR X < 5 AND X < 12	
		ii) NOT (X > 15 OR X< 5) OR X > 7	
		2) Write the BASIC expressions corresponding to each algebraic expressions	2
		given below.	
		i) $\frac{5 \times 2^8 - 7^4}{8 \cdot 15(2 \cdot 1.7)}$	
		(i) $\frac{\left(1+A+\frac{B}{C}\right)\left(\frac{E}{F}-G+H\right)}{\sqrt{(3+9B)}}$	
		√ (2+aP)	
	c)	Write a program in BASIC to print numbers which are multiple of 7 in the range from	4
	Ο,	200 to 300	•
Q.4	a)	Answer the following	4
		i) What are scanners?	,
		ii) What is the technology used in Laser printer.	
	b)	Write a program in BASIC to find the area of a circle & circumference of a circle	4
		with radius R (Given area = π R², circumference = 2 π R, π = 22/7) - (4)	
	c)	Explain the use of following commands in BASIC with illustration.	4
	,	i) LEN ii) SPACE\$ iii) AUTO iv) FOR - TO - NEXT	
Q.5	a)	What are the different PRINT FEATURES available with the printer Explain	-
		each of them in brief.	4
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Write instructions in BASIC for the following.

Write a program in BASIC to find largest of three numbers.

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