[4]

[2]

[2]

[4]

[4]

Instructions. :

- 1) Solve any 3 questions from Q. 1 to Q. 5
- 2) Solve any 1 questions Q.6 & Q.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.
 - **b1)** For each of the following algebric expressions, write down the the corresponding expressions in BASIC
 - I) $\frac{5(A-A^2)}{3(2+A)} \ge 0$

- ii) $1 + \frac{1}{1 + \frac{$
- 2) Evaluate the following BASIC expression showing the sequence of operations.
 - $X = 3^2 3 * 2^4 + (5 * 6) / 4 7/2$
- c) Write a program in BASIC to find the sum of first 10, 30 and 50 natural numbers. Print sum on 3 consucative lines. [4]
- Q.2 a) Write short notes on:
 - 1) Secondry storage unit
 - 2) Control unit
 - b) Write statements in BASIC for the following:
 - i) Add values of A, B, & C and then divide the sum by 3. Assign the value of this division to variable X after chopping off the fraction

State whether the following statements are true or false

ii) To replace the two leftmost characters of A\$ by "--".

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- iii) To print the string C\$ starting from 28th column of the line.
- iv) Print in the centre of a line the message : KING IS DEAD; LONG LIVE THE KING!
- c) What is a variable in BASIC? Specify different types of variables.

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Q.3 a) What is scanners? How scanners differ from one another?

[4]

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

30
$$X$$
\$ = MID\$ (A\$ + B\$, 2, 4)

40 Y\$ = MID\$ (B\$, 3, 1) +
$$C$$
\$

30
$$X = INT (B/A) * C - D$$

$$40 Y = (A + B + C + D)/4$$

- **c)** Explain the use of the following statements in BASIC with example.
 - 1) PRINT TAB statement
 - 2) IF-THEN-ELSE Statement

Q.4 a) State whether the following statements are true or false.

[4]

- 1) The arrow keys are used to move the cursor in the direction required.
- 2) Minicomputer support most high level languages like COBOL, BASIC, FORTRAN etc.
- 3) RAM is called as permanent & are not lost or erased when the current is switched off.
- 4) Dot matrix printers can print some tit lines from right to left.

$$S = \frac{1}{1} + \frac{1}{3} + \frac{1}{5} + \frac{1}{7} + \dots$$
 to 10 terms

[4]

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- c) Identify errors if any in each of the following BASIC statements and write the correct statement.
 - 1) 10 PRINT DATA
 - 2) 750 LIFT(X\$, 1) = RIGHT(x\$, 1) Where X\$ = ``ALPHA''
 - 3) If $X * X 2 * X + 5 < 2 * Y ^ 5 then 100$
 - 4) FOR x(I) = 1 TO 10
- Q.5 a) Write a note on buffers and spooler, proportional spacing, pitch options and font options features of printers. [4]
 - Write a program in BASIC to calculate and print sum of all multiples of 15 from 100 to 200. [4]
 - c) Explain the use of following commands in BASIC with illustration. [4]
 - 1) AUTO

2) DELETE

3) LIST

- 4) SAVE
- Q.6 a) Write short notes on:
 - 1) Compiler

[3]

2) Floppy disk drives

[2]

b) Explain meaning of the following:

[4]

- 1) 10 REM RESULT REPARATION
- 2) 230 STOP
- 3) 70 C\$ = A\$ + LEFT (X\$, 2)
- 4) 340 END
- c) Write a program in BASIC to find duration (D) of a sprts events is measured in seconds. Convert it into hours (H), minutes (M) and seconds (S).
- [5]
- Q.7 a) What are high and low level languages? Give details of the various

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JKXAEQ Page No. 4

b) State the output of the following:

[7]

- 1) 10 PRINT USING "####.##", 1374.5, 5.8
- 2) 20 PRINT USING "\$\$##, ##"; 2578, 26.5
- 3) 30 PRINT USING "\$**###" 658341
- 4) 40 PRINT USING "###^^^"; 375, 4995



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