

comp. prog

KLXABZ

TIME : 2 Hrs.

MARKS : 60

Instructions :-

- 1) Solve any 3 question from Q. 1 to Q.5.
- 2) Solve any 1 question from Q. 6. to Q. 7.
- 3) Bracketed figures to the right indicate marks.

- Q.1 a) Distinguish between Micro, Mini and Main fram Computers. [4]
b) Explain the following functions with giving example. [4]
i) RIGHT \$ (X\$, M)
ii) FIX (X)
iii) ABS (X)
iv) CHR\$ (X)
c) Write a program in BASIC to print all odd numbers between 1 To 100. [4]
- Q. 2. a) What is scanner ? How Scanners differ from one another ? [4]
b) For each of the following algebraic expression, Write down the corresponding expression in BASIC. [4]
i) $A + BX + CX^4 \neq 15^3$
ii) $\frac{XY}{4A} - (X + Y) 3^A$
iii) $\frac{A^B + C^P}{E^F}$
iv) $\sqrt{\frac{AB}{C}}$
c) Explain the difference between following statements. [4]
a) PRINT and LPRINT
b) END and STOP
- Q. 3. a) i) What is Computer word ? [2]
ii) Distinguish between RAM and ROM ? [2]
b) State the output of the following. [4]
1) 10 PRINT USING "###"; 12.8
2) 40 PRINT USING "## . ## " ; 103 . 482
3) 50 PRINT USING "\$### " ; 58
4) 60 PRINT USING " ! " ; "INDIAN"
c) Explain READ, DATA and RESTORE Statement. [4]
- Q. 4. a) Distinguish between compiler and Interpreter. [4]
b) State the output for each of the following set of instructions in BASIC. [2]
1) 10 A\$ = " FLOWER"
20 B \$ = LEFT\$ (A\$, 4)
30 C\$ = MIO\$ (B\$, 4, 1) + MID\$ (B\$, 3, 1) + MID\$ (B\$, 2, 1)
+ MIO\$ (B\$, 1, 1)
40 PRINT B\$
50 PRINT C\$
60 END

pdfMachine

A pdf writer that produces quality PDF files with ease!

Produce quality PDF files in seconds and preserve the integrity of your original documents. Compatible across nearly all Windows platforms, simply open the document you want to convert, click "print", select the "Broadgun pdfMachine printer" and that's it! Get yours now!


```

2) 10 DATA " 1 " , " 2 " , " 3 " , " 4 "
20 READ A$, B$, C$, D$
30 X$ = A$ + B$ + C$
40 A = VAL ( X$)
50 B = VAL ( D$ )
60 P = A + B
70 PRINT P
80 END

```

C) What are FOR - TO and NEXT Statement ? Give their Format and two examples. [4]

Q. 5. a) Write Short Notes on. [4]

- 1) Arithmetic and logic Unit
- 2) Control Unit

b) Identify errors if any in each of the following BASIC Statements. [4]

- 1) 10 N\$ = MID (X\$, 2)
- 2) 20 REM * FINDING AVERAGE * : AVG = (A + B + C) / 3
- 3) 10 READ A, B, C
20 DATA 5, 15, " ABC "
- 4) 30 RESTORE TO 100

c) Write a Program in BASIC to find Area of triangles. Height and Base of triangle will be given at time program execution. [4]

Q. 6. a) What are the Generation of Computer ? [4]

b) Write instructions in BASIC for each of the following. [5]

- 1) Multiply value of A by 3, add 7 to the product and assign this value to X.
- 2) To print first two characters of A\$
- 3) Construct word READ and assign it as a value to X\$ by selecting letters from A\$ = "DEAR"
- 4) Print value of numeric variable X accurate upto three decimal places where X = 26.51274
- 5) Declare a matrix of 40 elements with 8 rows and 5 columns.

c) Write a program to calculate and print sum of squares of first N natural numbers where N will be input at the time of program execution. [5]

Q. 7. a) Write Short Notes on Input Devices. [4]

b) 1) State for what values of X, each of the following BASIC expression will holds. [3]

- i) $X < 10 \text{ XOR } X < 6$
- ii) $X < 7 \text{ AND } X < 5 \text{ OR } X < 10$
- iii) $X < 3 \text{ AND } X < 5$

P.T.O.

pdfMachine

A pdf writer that produces quality PDF files with ease!

Produce quality PDF files in seconds and preserve the integrity of your original documents. Compatible across nearly all Windows platforms, simply open the document you want to convert, click "print", select the "Broadgun pdfMachine printer" and that's it! Get yours now!

- 2) Evaluate the following BASIC expression showing the sequence of operations. [2]

$$X = 2 \wedge 3 - 3 \wedge 2 + 4 * 12 / 5 - (3 + 7) / (4 + 1) * 2$$

- c) What is a variable in BASIC ? Specify different types of variables. Give two examples of each kind. [5]

