

B102K-0
L-10

KL3AAI

24804
comp Prog.

TIME : 2 Hrs.

MARKS : 50

N. B.

- 1) Solve any 3 question from Q. 1 to Q. 6.
- 2) Solve any One question from Q. 7 and Q. 8.
- 3) Bracketed figures to the right indicate marks.

Q.1. A) What is operating System ? What are the functions of the operating System ? [4]

B) Explain the OPEN Statement with different forms with suitable illustration. [4]

C) Write BASIC Commands for each of the following : [4]

- 1) To kill a program file JET saved on disk drive A.
- 2) Open a file called DETAILS on disk drive B for random access & assign it to data channel # 2, Record size is 100 ch.
- 3) Draw a circle with center at (20, 30) & radius 20.
- 4) Close three files numbered as #1, #2 & #3.

Q.2. A) Explain difference between Dos operating System and Windows Operating System. [4]

B) A Shopkeeper offers discount on total purchase. If purchase exceeds Rs. 10,000 then discount is 15% otherwise 8%. Input customer no., amount in rupees of purchase. Calculate discount & print Customer no., discount amount, amount of purchase and net amount to be paid for 10 Customers. Write a Basic program. [4]

C) State whether the statements are true or false. [4]

- 1) Load command is used to load a program in BASIC from a disk into the computers memory.
- 2) Virus in Computer is spread through environment.
- 3) PRESET statement is use to display a point on a screen.
- 4) MKI\$, MKS\$ or MKD\$ functions are used to convert numeric value to string value.

Q.3. A) Explain different methods of eliminating viruses. [4]

B) Find errors, if any, in each of the following cases : [4]

i) 10 GoSoB 100
100 GoTo 10
110 RETURN

ii) 10 PRINT #2, AS ; BS where A\$ = "B, A" and B\$ = "D, E"
20 INPUT #2, A\$, B\$, C\$

- C) Compute and print present value (PV) rounded off to nearest rupee of a cash inflow (A) at the end of N years; if Cost of capital is R rupees p.a. where PV is given by

$$PV = \frac{A}{(1 + R)^N}$$

Where values of A, N & R will be input at the time of processing. [4]

- Q. 4. A) Explain the following commands with format & example. [4]

- 1) RMDIR
- 2) REN

B) Write the steps for creating Random Access data file. [4]

C) Write a program to print number 1 to 50 in 10 rows and columns such that 1st row contains 1, 11, 21, 31, 41 and Last row contain 10, 20, 30, 40, 50. [4]

- Q. 5. A) Give Dos commands for each of the following :- [4]

- 1) To make a subdirectory SALARY in the subdirectory EMPLOYEE.
- 2) To copy a file RAMAYAN of drive C to drive E.
- 3) Delete all the files with extension. BAS & starting with alphabet R.
- 4) Display the contents of file SALESREC which is on D drive.

B) Explain PSET & PRESET statements with its format with one example. [4]

C) A random access data file named EMPL.DAT contains some records with a records consisting of three fields : Employee code EC\$ (Five character), Employee Name EN\$ (Twenty Characters) & Basic Salary BS\$ (numeric with size eight)

Suppose a file contains 100 records for employees with code nos. 00100 & 00200 arranged in the ascending order of code nos. Write a program to read the record of employee with code no. 00177 & print his details on the screen. [4]

- Q. 6. A) Write short note on the following.. [4]

- 1) DIR
- 2) COPY

B) Write output for the following statements : [4]

- 1) OPEN "R", #2, "MARK", 80
- 2) GoTo subroutines beginning with line numbers : 1000, 2000 & 3000 if $1 < X < 3$; $3 < X < 4$ & $4 < X < 6$ respectively.
- 3) 80 Close #3, #2
- 4) 500 If Not Eof(2) Then 100

- C) Write a program in BASIC to give 10 pairs of values of two variables X, Y at the time of program execution & to calculate karl pearson' coefficient of correlation R between X & Y. [6]

$$R = \frac{N \cdot \Sigma XY - \Sigma X \cdot \Sigma Y}{\sqrt{N \cdot \Sigma X^2 - (\Sigma X)^2} \cdot \sqrt{N \cdot \Sigma Y^2 - (\Sigma Y)^2}}$$

- Q. 7. A) Give short note on : [4]

- 1) Batch processing
- 2) On line (Real time) Processing

- B) State whether the statements are true or false. [4]

- 1) Changing Name of file is possible with the help of files command.
- 2) Field statement is used to define length of each data item in the record.
- 3) Run Command can do two jobs, Viz. LOADING & RUNNING.
- 4) The format of color statement is color (x, y), 2, 1

- C) Write a program to perform addition of two matrices of size M X N where M & N will be input at the time of processing. Also input the the row element during execution.

- Q. 8. A) State Whether the Statements are true or false. [5]

- 1) Unix can be simultaneously used by more than one users in a network.
- 2) To remove a directory should be given from the parent directory.
- 3) Coping a group of files from one drive to another is not possible.
- 4) Move Command is used to delete a file from its original location.
- 5) You can scan a disk with the help of SCAN command.

- B) Write a program in BASIC to input the names of 10 students of class and to sort them alphabetically & print them in sorted order. [5]

- C) Explain the Basic commands, with format and One example. [4]

- 1) KILL command
- 2) FILES command

- A) Explain different methods of eliminating viruses. [4]



- B) Find errors, if any, in each of the following cases: [4]

1) 10 GoSoB 100

2) 100 GoTo 10

110 RETURN

10 PRINT #2, A\$, B\$ where A\$ = "E, A" and B\$ = "D, E"