



Roll No.

Answer Sheet No. \_\_\_\_\_

Sig. of Candidate. \_\_\_\_\_

Sig. of invigilator. \_\_\_\_\_

## COMPUTER SCIENCE SSC-II

### SECTION – A (Marks 12)

**Time allowed: 20 Minutes**

**NOTE:-** Section-A is compulsory and comprises pages 1–2. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

**Q. 1** Insert the correct option i.e. A / B / C / D in the empty box provided opposite each part. Each part carries one mark.

(i) Which of the following commands is used to delete all types of disk files in BASIC?

- A. CLS / Home  
B. DEL  
C. DELETE  
D. KILL

(ii) What is the maximum number of characters that a string constant may contain in BASIC?

- A. 8  
B. 32  
C. 255  
D. 1000

(iii) Which of the following flowchart symbols is used as a decision symbol?

- A.   
B.   
C.   
D. 

(iv) Which of the following words can be used as a variable name in BASIC?

- A. NEW  
B. TEST  
C. KEY  
D. COLOR

(v) In Boolean Algebra AND operation represents logical \_\_\_\_\_

- A. Complementation  
B. Negation  
C. Addition  
D. Multiplication

(vi) The process of removing errors in BASIC is called:

- A. Cleaning  
B. Clearing  
C. Eliminating  
D. Debugging

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DO NOT WRITE ANYTHING HERE

- (vii) The number of possible combinations in a 7-bit code are:
- |        |        |
|--------|--------|
| A. 49  | B. 64  |
| C. 128 | D. 256 |
- (viii) According to absorption law;  $A.(A+B)$  is equal to:
- |          |          |
|----------|----------|
| A. $1+B$ | B. $A+1$ |
| C. $AB$  | D. $A$   |
- (ix) Which of the following function keys is used to save a program in BASIC?
- |       |       |
|-------|-------|
| A. F1 | B. F2 |
| C. F3 | D. F4 |
- (x) 2's complement of 01010 is:
- |          |          |
|----------|----------|
| A. 00110 | B. 11000 |
| C. 01001 | D. 10110 |
- (xi) In BASIC which of the following functions rounds off the fractional part of expression:
- |        |         |
|--------|---------|
| A. INT | B. CINT |
| C. FIX | D. MOD  |
- (xii) The variable that enables to draw ellipse in CIRCLE statement is the:
- |        |        |
|--------|--------|
| A. 4th | B. 5th |
| C. 6th | D. 7th |

**For Examiner's use only:**

Total Marks:

Marks Obtained:

— 2SA-0908 —



# COMPUTER SCIENCE SSC--II

Time allowed: 2:40 Hours

Total Marks Sections B and C: 43

**NOTE:-** Sections 'B' and 'C' comprise page 1 and questions therein are to be answered on the separately provided answer book. Answer any nine parts from Section 'B' and attempt any two questions from Section 'C'. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

## SECTION – B (Marks 27)

**Q. 2** Attempt any NINE parts. The answer to each part should not exceed 3 to 4 lines each.  
( 9 x 3 = 27 )

- (i) What is the difference between FOR... NEXT and WHILE... WEND loops?
- (ii) Differentiate between Command and Statement.
- (iii) Write the use of LOAD, LIST and LLIST commands.
- (iv) What is meant by a computer program?
- (v) Write algorithm to convert temperature from Celsius to Fahrenheit scale.
- (vi) When and why DIM statement is used?
- (vii) Describe these library functions: LEFT\$, ABS, CHR\$
- (viii) Convert the Hexadecimal number 3F8A into Binary equivalent.
- (ix) Subtract  $(10001)_2$  from  $(11100)_2$  using 1's complement.
- (x) State and prove Idempotent law.
- (xi) What commands clear the computer memory?
- (xii) What is the difference between Data and Information?
- (xiii) What will be the output of the following program?  

```
10 CLS
20 LET A = 2
30 FOR M = 5 TO 1 STEP - 1
40 PRINT M * A
50 LET A = A + 1
60 NEXT M
70 END
```

## SECTION – C (Marks 16)

**Note:-** Attempt any TWO questions. Each question carries equal marks. ( 2 x 8 = 16 )

- |             |    |   |    |
|-------------|----|---|----|
| <b>Q. 3</b> | a. | Describe various steps necessary to solve a problem.  | 04 |
|             | b. | Construct Truth Table for: $XY + XZ + YZ$   | 04 |
| <b>Q. 4</b> | a. | Write a program to calculate Sum, Average and Product of any four numbers, using INPUT statement. | 04 |
|             | b. | Draw flow chart for making tea.   | 04 |
| <b>Q. 5</b> | a. | What is the purpose of user defined functions? Illustrate.  | 04 |
|             | b. | Write a program using DRAW statement to make a triangle.  | 04 |