

SA-I (CLASS-VII)

9/2014

SUBJECT : COMPUTER SCIENCE

MM : 50

Time : 2 hrs

Q1. Choose the correct answer and write it in the answer sheet : (6x1=6)

- (i) Number system which is used by digital computers-
 - (a) Octal
 - (b) Hexadecimal
 - (c) Binary
 - (d) Decimal
- (ii) Symbol used for addition of two strings in Excel-
 - (a) \$
 - (b) &
 - (c) !
 - (d) #
- (iii) Output of $= \text{MOD}(9, 2)$
 - (a) 1
 - (b) 4
 - (c) 3
 - (d) 2
- (iv) Concept of zero (0) was given by -
 - (a) Bill Gates
 - (b) Aryabhat
 - (c) Ada Lovelace
 - (d) George Boole
- (v) It provides an easy way to enter or display a record-
 - (a) Form
 - (b) Pivot table
 - (c) Filter
 - (d) Sort
- (vi) In a database, a row represents -
 - (a) Table
 - (b) Field
 - (c) Record
 - (d) Cell

Q2. Write one word answer for the following statements: (8x1=8)

- (a) Base of Decimal number system.
- (b) Option used to restrict cell entries within a specified range in Excel.

- (c) This number system uses 16 symbols to represent numbers.
- (d) It is represented by a column in a database.
- (e) They are inputs to functions, which accept values as number or text.
- (f) Key combination used to get total of adjacent cells.
- (g) Symbol with which a formula must begin in Excel.
- (h) Function used to calculate subtotal values in the database.

Q3. Answer the following questions :

- (a) What is a cell reference? Name any two types of cell references. (3)
- (b) Write the rules to convert Binary number to Decimal number. (3)
- (c) What do you mean by 'Function'? Give one example. (3)
- (d) What is a database? Give one example. (3)
- (e) Describe the utility of 'Filter' feature. (2)
- (f) Write the use of 'Pivot Table'. (2)
- (g) Write the rules to enter field names in Excel database. (2)

Q4. Convert the following Binary numbers into Decimal:

- (a) 100110
- (b) 11001

(2x3=6)

Q5. Convert the following Decimal numbers into Binary:

- (a) 21
- (b) 68

(2x3=6)

Q6. Study the following worksheet and answer the questions given below :

	A	B	C	D	E
1	CAR SALES DETAILS (YEAR WISE)				
2	MODEL	2011	2012	2013	TOTAL SALES
3	ASCENT	2200	1200	1500	
4	SANTRO	1500	1100	1000	
5	WAGON-R	3200	3300	3300	
6	DUSTER	3300	3200	3600	
7					
8	HIGHEST SALES (2011)				
9	LOWEST SALES (2012)				

- (a) Write the formula to calculate total sales for 'ASCENT' in E3 cell. (1)
- (b) Write the formulas : (2)
 - (i) To calculate Highest sales (2011) in C8 cell.
 - (ii) To calculate Lowest sales (2012) in C9 cell.
- (c) The sales manager wants to arrange the records in descending order of Total Sales. Name the Excel feature and draw the button which would help him to do so. (2)
- (d) Name the cell reference in which \$ sign is put before column as well as row number. (1)