FIRST YEAR HIGHER SECONDARY IMPROVEMENT EXAMINATION SEP/OCT – 2016

SCHEME OF VALUATION

SUB : COMPUTER SCIENCE **CODE : 419**

Q. No.	Scoring Key	Split Score	Total Score
1.	b) Vacuum tube, a) Transistor, d)Microprocessor c) Artificial intelligence (if two are in order – 1/2 Score)	1	1
2.	c) PNG	1	1
3.	b) PC	1	1
4.	a) Syntax error	1	1
5.	b) Identifier	1	1
6.	d) goto	1	1
7.	Binary	1	1
8.	False	1	1
9.	b) GPS	1	1
10.	a) $(673.66)_8$ (correct grouping – 1/2 score)	1/2 + 1/2	1
	b) $(200.2)_8$ (division by 8 is shown – 1/2 score)	1/2 + 1/2	1
11.	Definition/Comparision of shareware and freeware	1 + 1	2
12.	a) valid / Invalid (since it is a Keyword)	1	1
	b) Invalid (dot is used)	1/2 + 1/2	1
13.	a) strcmpi() is not case sensitive strcmp() is case sensitive	1 + 1	2
OR			
	b) break statement terminate the execution of the loop / switch. Continue returns to the next iteration in the loop	1 + 1	2
14.	a) char name[30]; / char name[31]; (Partially correct – 1/2 Score)	1	1
	b) cin does not allows space / defined in 'iostream.h' or 'iostream' gets() allows space / defined in 'stdio.h' or 'cstdio'	1/2 + 1/2	1
15.	Processed before actual compilation Eg. #include, #define. (Any valid example)	1 + 1	2
16.	DoS – Denial of Service (1 score only) forces the server / computer to restart (Any valid explanation – 2 scores)	2	2
17.	Implementation of AND / OR / NOT gate with neat diagram using NAND gates – 3 Scores If expression only – 1 Score each (NAND gate diagram only – 1 Score)	3	3
18.	Electronic Waste / Any valid definition – 1 Score Role – 2 Scores	1 + 2	3
19.	1 score each for correct examples of a,b,c (Partially correct – 1/2 Score each)	1 + 1 + 1	3
20.	Structure – 1 Score Syntax – 1 Score Logic - 1 Score	1 + 1 + 1	3
OR			
	a) 15 / error / no output - 1 Score	1	1

1/2

	b) implementation using while loop – 2 Scores Syntax / usage of while loop only – 1 Score	2	2
21.	Definition of an array – 1 Score Correct program - 2 Scores Declaration of an array only – 1 Score Correct program structure – 1 Score	1 + 2	3
22.	Definition of recursive function – 2 Scores Ordinary function Example - 1 Score (Example of recursive function - 3 Scores)	2 + 1	3
23.	1 valid point / definition / example for a, b, c	1 + 1 + 1	3
24.	Definition – 1 Score Valid Steps / Explanation – 2 Scores	1 + 1 + 1	3
25.	a) 30 – 1 Score b) correct flowchart – 3 Scores Symbols only – 2 Scores	1 3	4
26.	Definition of Call by Value and Call by Reference – 1.5 + 1. 5 = 3 Scores Example – 1 Score (Correct program examples of call by value and call by reference – 4 Scores)	3 + 1	4
OR			
	a) Program (Structure – 1 Score, Logic – 1 Score) **or** Algorithm – 2 Scores	2	4
	b) Bubble Sort steps – 2 Scores (Partially correct – 1 Score)	2	
27.	Definition of topology – 1 Score 1 Score each for brief description / diagram of each topology. Names only – 1/2 Score each.	1 + 4	5
	Total		**60**