FIRST YEAR HIGHER SECONDARY EXAMINATION, MARCH 2016
(Scheme of Valuation)

Subject : Computer Science   **Code No. 319**

Qn. No.	Scoring Indicators	Split Score	Total Score
1	Firewall	1	1
2	Pits and Lands / 0 or 1 / Any relevant answer	1	1
3	Logical Error	1	1
4	int M[3][5] OR float M[3][5]	1	1
5	Fibre To The Home	1	1
6	d. Microwave is used for connectivity	1	1
7	Only one time	1	1
8	Conditional Operators OR (? :)	1	1
9	11001000	1	1
10	Disk defragmenter	1	1
11	Mesh Topology	1	1
12	10100111	2	2
13	Correct statements about top down and bottom up designs OR Modular programming (Any two points)	1+1	2
14	5- integer literal, '5'- character literal, 5.0- floating point literal, "5"- string literal	2	2
15	By inserting single line or multiline comments Use of // or /* and */ OR Use of output statement for printing name and address – only 1 score	2	2
16	int A[5]; A[5]={8,7,2,4,6}; OR int A[5]={8,7,2,4,6}; OR int A[5]; A[0]=8; A[1]=7; A[2]=2; A[3]=4; A[4]=6; OR Declaration only - 1 score	2	2
17	HAPPY HAPPY NEW YEAR	1 1	2

1/4

18	a) pow(5,3) b) strlen("KERALA") c) tolower('M') d) sqrt(100) OR Correct function names	2	2
19	Draw flowchart in any of the following order e, c, d, f, i, h, a, b, g e, d, c, f, i, h, a, b, g e, c, d, a, f, i, h, b, g e, d, c, a, f, i, h, b, g OR Partially correct flowchart – only 2 score	3	3
OR 19	Correct algorithm / flowchart/ program OR Partially correct algorithm / flowchart/ program – give 2 score	3	
20	Correct definition or declaration of array Correct algorithm / flowchart / program OR Diagram or explanation of searching – only 1 score	1 2	3
21	Any three services from SMS,MMS,GPS and smart card Names only (½ score each) – 1½ Correct explanation (½ score each) - 1½ OR Any three services from GSM, EDGE,GPRS,CDMA – 2 score only	3	3
22	Correct definition Valid points for comparison	1 2	3
23	a = –4, b =2 and c = 1 OR Error OR No output (1 score) ; justification (C in upper case)–2 score	3 3	3
24	Transistor – Second generation, VLSI – Fourth generation ENIAC – First generation	3	3
25(a)	(a) $(310)_8$ (c) $(C8)_{16}$ are same OR Any two correct conversions – 1 score	3	
OR 25(b)	De Morgan's law Correct proof (algebraic method) $(B^l + A)^l = (B^l)^l . A^l = B . A^l$ Proof using Truth table method – 1 score only	1 2	3

26	(a) Recursive function	1	
	(b) Correct function definition	3	4
| | ```
int sum(int n)
{
        if (n==0)   return 0;
        else return (n+sum(n-1));
}
``` | | |
	OR		
	Any logic for finding the sum of the first N natural numbers – 2 score only		
27	Detailed description about primary and secondary memory devices in computer (any five)	5	5
	Classification only – 1 score		
	Only the names of any five devices – ½ score each		
28(a)	Correct C++ program	5	
	Correct Program structure – 1 ; Variable declarations – 1; Input – ½ ; Loop – 1; Logic – 1½		5
OR 28(b)	Correct C++ program	5	
	Correct Program structure – 1 ; Variable declarations – 1; Input – ½ ; Loop – 1; Logic – 1½		