

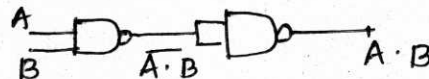
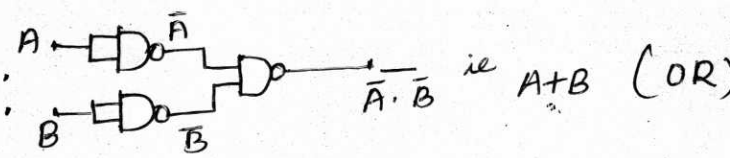
FIRST YEAR HIGHER SECONDARY EXAMINATION MARCH 2018

SUBJECT: Computer Science & IT

CODE. NO: 114

Qn No	Sub Qns	Answer Key/Value Points	Score	Total
1		machine / binary language	1	1
2		American Standard Code for Information Interchange	1	1
3		Information	1	1
4		Flowchart	1	1
5		double	1	1
6		First computer / calculating board / counting frame / works on basis of place value / horizontal divider - separates top 2 beads and bottom five (any 2 points)	2	2
7		Using universal gate any boolean function can be implemented without using other gates one example	1	2
8		freedom to use, copy, distribute, change, examine and improve s/w eg. LINUX / GIMP / openoffice / Mozilla Firefox	1	2
9		RAM - random access, read/write, volatile temporary ROM - read only, non volatile, permanent Any 2 valid difference	1	2
10		keyword - auto identifier - file, Break Literals - "main", -7.5, 'c' operators - >>, %	$\frac{1}{4} \times 8$	2

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total
11		= assignment 1 eq. == relational (equality) 1 eq.	1 1	2
12	a	cout << "a = " << a;		
	b	cin >> y;		
	c	int a = 5, b = 6;	1/2 x 4	2
	d	z = x + y;		
13		int i = 0, s = 0; do { s += i; i++; } while (i <= 10); cout << s;	2	2
14		gets(s); cin stops reading at first white space	1 1	2
15	a	int fun(int, int);	1	2
	b	void fun(float, float, float);	1	
16		router - interconnect network of same type, find optional paths to travel, reduce traffic gateway - interconnect different n/w having different protocols - acts as entrance to another n/w	1 1	2

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total
17		<p>telephone with internet connection, modem, NIC, OS that support TCP/IP, web browser, s/w for email, chat etc (Any 4 requirements)</p>	$\frac{1}{2} \times 4$	2
18		<p>Both are popular standards for 2G system and support simultaneous transmission GSM - Global System for Mobile, Narrow banded TDMA N/w identified using SIM CDMA - Code Division Multiple Access, Broad Band, better quality and Security than GSM (Any 2 points each)</p>	1  1	2
19	a	 <p>(AND)</p>	figure -1	3
	b	 <p>ie <math>A+B</math> (OR)</p>	(1 1/2 each) label - 1/2	
20	a	compiles, interpreter	1	3
	b	<p>compiler - whole program interpreter - line by line</p>	2	
21		<p>Syntax error, logical error, runtime error (brief explanation)</p>	1x3	3
22		<p>code a:- when <math>i=10</math> exit from loop code b:- when <math>i=10</math> skips rest of loop and go for next iteration (mark can be given for o/p also)</p>	$1\frac{1}{2}$ each	3



Qn. No	Sub Qns	Answer Key/Value Points	Score	Total
23		<pre> s = 1; for (i = 1; i &lt;= 4; i++) {   for (j = 1; j &lt;= i; j++)   {     cout &lt;&lt; s &lt;&lt; " \t";     s++;   }   cout &lt;&lt; "\n"; } </pre>	Logic (2) loop(1)	3
24	a	collection of data of same type in continuous memory location under common name	1	3
	b	3	1	
	c	24 bytes	1	
25		program - proper variable declaration logic & syntax	1 2	3
26		sketch & explanation } of any 3 (star, bus, ring, tree, mesh)	1 x 3	3
27		computer virus, worm, trojan horse, spams, hacking, phishing, DoS, man in the middle of attacks (brief explanation of any 3)	1 x 3	3
28	a	sign and magnitude, 1's complement, 2's complement (Any 2)	1	4
	b	brief explanation of any 2	1 1/2 each 1 1/2 x 2 = 3	

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total
29		Reuse, Recycling, Incineration, Land filling (explanation)	4	4
30		Program - Proper data declaration Logic Syntax	1 2 1	4
31	a	for storing large volume of data of same type under a common name	1	
	b	datatype arrayname [size]; + eg	1/2 1/2	4
	c	Arranging elements in logical order	1	
	d	selection sort, bubble sort	1	
32	a	recursive function - a function calls itself (Function with argument and return value also can be considered)	2	
	b	void main() { int n, f; int fun(int); cout << "enter no"; cin >> n; f = fun(n); cout << "Answer = " << f; }	2	4

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