G.C.E. (O/L) – ICT Marking Scheme – 2013 (November)

Examination Conducted by Northern Province

QNo	Answer	QNo	Answer	QNo	Answer	QNo	Answer
1.	2	11.	4	21.	1	31.	4
2.	3	12.	1	22.	1	32.	4
3.	4	13.	4	23.	4	33.	3
4.	3	14.	2	24.	2	34.	4
5.	2	15.	4	25.	3	35.	1
6.	1	16.	2	26.	3	36.	2
7.	4	17.	1	27.	1	37.	4
8.	1	18.	3	28.	1	38.	2
9.	1	19.	4	29.	2	39.	3
10.	4	20.	2	30.	3	40.	2
						Total marks	**1 x 40 = 40**

Part – II

QNo		Answer	Marks	Remarks
01.	*i)*	Mouse Trackball	**2**	1 for each. Any relevant answers.
	ii)	1010101110001_2	**2**	
	iii)	1GL — Assembly Code 2GL — Natural Language 3GL — BASIC computer language 4GL — Machine code	**2**	1/2 for each.
	iv)	IP address Domain name	**2**	1 for each.
	v)	R = 0 R = 0	**2**	1 for each.
	vi)	A – Stage B – Timeline C – Stroke color D – Fill Color	**2**	1/2 for each.
	vii)	To ensure that the user requirements are met/satisfied. *OR* To fix/correct errors. *OR* To fix/remove errors.	**2**	Any one of the three answers.

viii)	Begin
	
	    Total = 2
	
	    For count = **_2_** to **_10_**
	
	        If(count is even) Then
	
	        Total = **_Total + count_**
	
	    End If
	
	    Next count
	
	    Display **_Total_**
	End
			2	1/2 for each.
				(Underlined/Bolded).

ix)	Web server helps to **deliver web contents** that can be **accessed through the Internet**. OR Web server is used to **host websites** in the **Internet**.		**2**	1 mark for **Bolded/underlined** words.
x)	**_<html>_** <head> <title> The sample web page **_</title>_** </head> <body> **_ _** Welcome **_</body>_** </html>		**2**	1/2 for each.
	TOTAL MARKS:		**20**	

QNo		Answer	Marks	Remarks
02.	(i)	May obtain 24/7 library services. May check about availability of books easily & quickly.	2	1 for each. Any relevant answers.
	(ii)	• Up to date information such as arrivals of new books can be easily & quickly conveyed to the members/ students. • 24/7 library services can be provided for the members/students.	2	1 for each. Any relevant answers.
	(iii)	Admission Number, Name of student , Address	3	1 for each. Any relevant answers.
	(iv)	• Develop the web-based library information system • Obtain permission (domain name/IP address) to store web-based library information system on a www web server.	3	1 for each.

		• Transfer/Upload the web-based library information system to the web server.		

QNo		Answer	Marks	Remarks
03.	(i)	= SUM(B3:G3) OR = + SUM(B3:G3) OR + SUM(B3:G3) OR @ SUM(B3:G3)	2	One of these answers
	(ii)	= MAX(B3:B6) OR =+ MAX(B3:B6) OR +MAX(B3:B6) OR @MAX(B3:B6)	2	One of these answers
	(iii)	= H3 + H4 + H5 + H6	2	
	(iv)	• Column chart • Bar chart	2	1 for each. Any relevant answers.
	(v)	Pie chart	2	

QNo		Answer	Marks	Remarks
04.	(i)	Primary key is **a field or set of fields** that can be used to **uniquely identify a particular tuple** in a data table. In Students table – StudentID may be a primary key. In Subjects table – SubjectID may be a primary key.	3	2 marks for definition. 1 mark for two examples.
	(ii)	A foreign key is a field or collection of fields in **one table** that uniquely identifies a **row of another table.** In Results table, StudentID and SubjectID can be foreign keys.	3	2 marks for definition. 1 mark for two examples.
	(iii)	The Results field is added to the Students table, the Result for the subject cannot be obtained. The Results field is added to the Subjects table, the Student for the Result cannot be obtained.	2	1 for each.
	(iv)	The problem **data redundancy / duplication** in data table occur.	2	

QNo		Answer	Marks	Remarks
05.	(i)	• Not Correct. • Because, **licensed copy cannot be copied** without permission by others. It is **illegal** as well as **unethical**.	3	1 for answer and 2 for justification.
	(ii)	• Back pain • CTS – Carpal Tunnel Syndrome	2	1 for each. Any relevant answers.

QNo		Answer	Marks	Remarks
	(iii)	• Sitting on chair in correct posture. • Keeping eyes 24-30 cm length space from monitor	3	1 ½ for each Any relevant answers
	(iv)	• Service from ISP. • Modem / Router / Telephone line.	2	1 for each. Any relevant answers.

QNo		Answer	Marks	Remarks

06.	(i)	Begin
		   If It is raining Then
		     Tell your friend to get an umbrella
		   Else
		     Say it is sunny
		   End If
		End
			2	If Then Else End IF 1 mark / Others 1 mark
				(0 marks for without If Then Else End If)

	(ii)	A – 100 B – No C – Yes D – Yes E – No F – n	3	1/2 for each

	(iii)	Begin
		   No of students (n) = 0
		   WHILE (n < 100)
		     If Pass O/L Exam Then
		       Allow to follow A/L
		     Else
		       Advice to sit O/L again
		     End If
		     n = n +1
		   END WHILE
			5	Begin/End – 1 mark
				Condition – 1 mark
				If Then Else End IF – 1 mark
				n = n +1 – 1 mark
				Others – 1 mark

		End		

QNo		Answer	Marks	Remarks
07.	(i)	• Donating used computers to schools. • Giving awareness to the people about ICT and its benefits.	2	1 for each. Any relevant answers.
	(ii)	(a) *Software developer: -* is a person concerned with **software development** process. Software developer's work is **designing, implementing, and testing software**. (b) *Database administrator:-* is a person responsible for the **installation, configuration, upgrade, administration, improving performance, monitoring and maintenance** of databases in an organization.	4	2 for each. Major words Underlined/Bolded are important. (Two words are enough for giving marks).
	(iii)	• Encryption • Digital signature / Digital ID	2	1 for each No marks for password/username.
	(iv)	• Usage of photo editing /graphic designing software in designing notice, magazine, book, brochures, etc. • Usage of 2D/3D printer / plotter	2	1 for each. Any relevant answers.