

III Term Test- 2016

Information and Communication Technology (80) – Grade 11

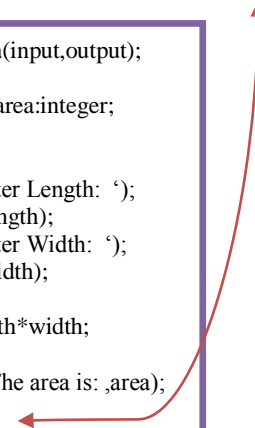
Marking scheme

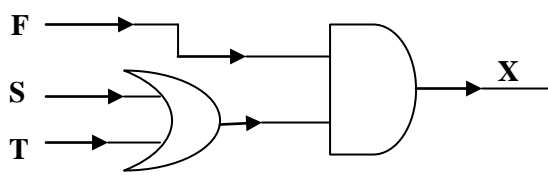
Part I

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

Part II

Q.No	Answer	Marks																				
01	i) -No daily time tables. - Digital library facility - Online assignments and quizzes - Easy to obtain teacher consultations. (any of two)	02																				
	ii) $ \begin{array}{ccc} 1 & 2 & B \\ \downarrow & \downarrow & \downarrow \\ 0001 & 0010 & 1011_2 \\ 100 & & 101 & & 011 \\ 4 & 5 & 3 \\ & & 453_8 \end{array} $	02																				
	iii) <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>A</th> <th>B</th> <th>NOT (A) . B</th> <th>F= A+ (NOT (A) . B)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>0</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>1</td> <td>0</td> <td>0</td> <td>1</td> </tr> <tr> <td>1</td> <td>1</td> <td>0</td> <td>1</td> </tr> </tbody> </table>	A	B	NOT (A) . B	F= A+ (NOT (A) . B)	0	0	0	0	0	1	1	1	1	0	0	1	1	1	0	1	02
A	B	NOT (A) . B	F= A+ (NOT (A) . B)																			
0	0	0	0																			
0	1	1	1																			
1	0	0	1																			
1	1	0	1																			

iv) A- Half duplex B – Simplex C – Simplex D – Full Duplex	02										
v) a) – FindArea b) – length, width, area (any of two) c) – program,write,readln (any of two) d) - area=length*width; should be corrected as area:=length*width; (assigning operator should use) Readln should be corrected as Readln; (; is missing) <div style="border: 1px solid purple; padding: 5px; width: fit-content;"> <pre> program FindArea(input,output); USES crt; var length, width, area:integer; Begin clrscr; write('Enter Length: '); Readln(length); write('Enter Width: '); Readln(width); area=length*width; clrscr; writeln('The area is: ,area); Readln End. </pre>  </div>	02										
vi) <table border="1" style="margin-left: 20px;"> <thead> <tr> <th style="text-align: center;">A</th> <th style="text-align: center;">B</th> </tr> </thead> <tbody> <tr> <td>Word Processing Software</td> <td>Documents, Documents To Go</td> </tr> <tr> <td>Spreadsheet software</td> <td>Work book, Libre Office Calc</td> </tr> <tr> <td>Presentation software</td> <td>Open Office Impress, Apple Keynote</td> </tr> <tr> <td>Database software</td> <td>Reports, Oracle</td> </tr> </tbody> </table>	A	B	Word Processing Software	Documents, Documents To Go	Spreadsheet software	Work book, Libre Office Calc	Presentation software	Open Office Impress, Apple Keynote	Database software	Reports, Oracle	02
A	B										
Word Processing Software	Documents, Documents To Go										
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vii) <table border="1" style="margin-left: 20px;"> <thead> <tr> <th style="text-align: center;">Raster Graphics</th> <th style="text-align: center;">Vector Graphics</th> </tr> </thead> <tbody> <tr> <td>Quality is lost when the size changes</td> <td>Quality is not lost when the size changes</td> </tr> <tr> <td>Not suitable for high quality creations</td> <td>Suitable for high quality creations</td> </tr> <tr> <td>Use less memory space to save</td> <td>Need more memory space to save</td> </tr> </tbody> </table> <p style="text-align: center;">(any of two)</p>	Raster Graphics	Vector Graphics	Quality is lost when the size changes	Quality is not lost when the size changes	Not suitable for high quality creations	Suitable for high quality creations	Use less memory space to save	Need more memory space to save	02		
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Use less memory space to save	Need more memory space to save										
viii) A – True B - True C - False D - True	02										
ix) X = 2 (X <= 20) Print X X = X+2	02										

	x) Avast Anti Virus Avira Anti Virus etc.....	02																																													
02	i) - Switch /Hub - Network Interface card - Router - Cables	02																																													
	ii) Client Server Architecture	02																																													
	iii) Star Topology	02																																													
	iv) Router (To build a connection between two or more computer networks together)	01																																													
	v) a) – Modem - Internet Service Provider - Web Browser (any of two) b) Converting the domain name to an IP Address	02 01																																													
03	i) F – Fire detector S – Smoke detector T – Temperature detector X – output	04																																													
	 <p>* If students use inputs as A,B,C etc... they should indicate the inputs' relevancy.</p>																																														
	ii) $X = F \cdot (S + T)$	02																																													
	iii)	04																																													
	<table border="1" data-bbox="422 1254 997 1579"> <thead> <tr> <th>F</th> <th>S</th> <th>T</th> <th>S+T</th> <th>X (F.(S+T))</th> </tr> </thead> <tbody> <tr><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>0</td><td>0</td><td>1</td><td>1</td><td>0</td></tr> <tr><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td></tr> <tr><td>0</td><td>1</td><td>1</td><td>1</td><td>0</td></tr> <tr><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>1</td><td>0</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>1</td><td>1</td><td>0</td><td>1</td><td>1</td></tr> <tr><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr> </tbody> </table>	F	S	T	S+T	X (F.(S+T))	0	0	0	0	0	0	0	1	1	0	0	1	0	1	0	0	1	1	1	0	1	0	0	0	0	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	
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04	i) <pre> BEGIN X = 0 Y = 1 WHILE (Y < 6) DO X = X + Y Y = Y + 1 END WHILE </pre>	04																																													

	<p>DISPLAY X END.</p>																															
	ii) Output = 15	02																														
	<p>iii)</p> <pre> programXY(input,output); var X, Y : integer ; Begin X := 0; Y := 1; While Y < 6 Do Begin X := X+Y; Y := Y+1; End; Writeln('Value of X is:', X); End. </pre>	04																														
05	<p>i) - Failures with the existing system and changes required from the new system - Operational feasibility of new system - Technical feasibility of new system (any possible answers)</p>	03																														
	ii) SDLC – System Development Life Cycle	01																														
	<p>iii) – Observations - Interviews - Questionnaires - Document sample collection</p>	02																														
	<p>iv) – Unit Testing - Integration Testing - System Testing - Acceptance Testing</p>	02																														
	<p>v) – When students and teachers’ requirements changing - With the new technology. (any possible answers)</p>	02																														
06	<p>i) - Data Duplication(දත්ත අනුපිටපත් වීම) - Inability to analyse data properly. (any possible answers)</p>	02																														
	<p>ii) St_RegNo = Text Name = Text DOB = Date/Time Gender = Yes/No</p>	02																														
	iii) The primary key which consists of two or more columns of a table uniquely identifies is called Composite Primary Key.	02																														
	<p>iv) St_RegNo should included in Results Table</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>St_RegNo</th> <th>St_IndexNo</th> <th>Course_Name</th> <th>Duration</th> <th>Grade</th> </tr> </thead> <tbody> <tr> <td>12008</td> <td>12064</td> <td>CS</td> <td>06 Mnths</td> <td>A</td> </tr> <tr> <td>12009</td> <td>12065</td> <td>IS</td> <td>06 Mnths</td> <td>C</td> </tr> <tr> <td>12010</td> <td>12068</td> <td>Programing</td> <td>06 Mnths</td> <td>B</td> </tr> <tr> <td>12011</td> <td>12071</td> <td>CS</td> <td>06 Mnths</td> <td>B</td> </tr> <tr> <td>12012</td> <td>12083</td> <td>IS</td> <td>06 Mnths</td> <td>A</td> </tr> </tbody> </table>	St_RegNo	St_IndexNo	Course_Name	Duration	Grade	12008	12064	CS	06 Mnths	A	12009	12065	IS	06 Mnths	C	12010	12068	Programing	06 Mnths	B	12011	12071	CS	06 Mnths	B	12012	12083	IS	06 Mnths	A	01 02
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	v) One – To – One Relationship	01
07	i) - Classification based on site map - Display a summary of the entire content of the website in the Home page - Present information in brief - Use of numbered lists, bulleted lists and indentation (any of two)	02
	ii) – Joomla - Wordpress -Drupal (any of two)	02
	iii) – A web host - A domain name - Internet connection - File Transfer Protocol (any of two)	02
	iv) (1) – HEAD (5) -TR (2) – IMG SRC (6) - TABLE (3) – BR (7) – A HREF (4) – TH (8) – ichtelp competitions.	04