தே டூவை பிலான சையைத் திணைக்களம் இலங்கைப் பரீட்சைத் திணைக்களம்

ூறி எூறில் எற்று எற்று பிறை பிறை தேசிய மதிப்பீட்டிற்கும் பரீட்சித்தலுக்குமான சேவை



ළගන අංකය	පිළිතුර	පුශ්න පිළිතුර අංකය		උශ්න අංකය	පිළිතුර	පුග්න පිළිතුර අංකය	
வினா இல	പിത്വ.	வினா இல	പിഞ∟	வினா இல	விடை	வினா இல	விடை
()]	3	11.	3	21.		31.	.3
02.	2	12.	3	22.	3	32.	4



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Special Notes:

0

(.../...) indicate only one of the options included in square brackets are considered as one answer

{...} indicates that words inside are optional. Even without any of the options in side

brackets full marks will be awarded

[..] indicates marking guidelines

1.

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1.

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- (Special Purpose/Special)Computers 0
- (General Purpose/General) Computers Ф

[1 mark each = 2 marks]

If alternative correct words (e.g විශේෂ පරිගණක, (පොදු පරිගණක/ සාමාන්ය



[I mark each = 2 marks or 0]ii. Input – Index No IIOLES.OI (1/2 mark)

Process - validate and (retrieve information from databases/access database)

 $\begin{bmatrix} \frac{1}{2} & \text{for each part of process} = 1 & \text{mark} \end{bmatrix}$





[Note: Flowchart based symbols are acceptable if correct symbols are used]

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. Page 2 of 14

012.



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Web Browser	Texams@doenets.lk
	Or
Email address	exams@doenets.lk
URL	www.google.com
IP address	172.16.12.1
Search Engine	Google
Web Browser	Internet Explorer

 $[1 correct = \frac{1}{2} mark, 2 correct = 1 mark, 3 correct = 1 \frac{1}{2}, 4 or more correct = 2$

marks]

[Note: Reordering the second column is accepted as indicated accepted. Arrows

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without labels are <u>not accepted.]</u>

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Page 3 of 14 .4

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iv.

 $x.y + \overline{x}y = z$

z = 1

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[1 Mark]

[1 mark]

[Truth table or DeMorgan's Theorem is accepted]

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Number of Bits = 8 \mathbf{V}_{\star}

Total number of symbols	2 ⁸	27	2 ⁶	2 ⁵	24	2 ³	2 ²	2
Min	0	0	0	0	0	0	0	0
Max	255	12 7	63	31	15	7	1	2



Number of Symbols = 256

[1 mark]

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[Note: conversion of each symbol is awarded 1 mark]

11001001

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OR

C9 => Decimal=>Binary

[Method = 1 Mark , final answer 1 mark]

[Note: Marks awarded to final answer even if base is not

mentioned]

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Only Modified circuit awarded marks





vii.



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[¹/₂ Mark Each = 2 Marks]

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ix. Begin

Set Total to zero For Counter = $\frac{1}{2}$ to 10 Step 2^{-1}

Total =Total + Counter

.

Next Counter

End

[¹/₂ Mark Each = 2 Marks]

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- x. Following are accepted as answers
 - Interviewing
 - Observation
 - Document Inspection

• Questionnaires • (Discussions/Brain storming) (ollowing, Sumplify, Sumpli

i. (Bar Chart/ Column Charts)

[2 marks]

ii. = c4-b4 or +c4-b4 or =+c4-b4

[3 marks]

[Note: marks only awarded to only those, if there are additions or omissions no marks awarded / marks only awarded to only those, if there are any additions or omissions no marks awarded / If the students has written a sentence e.g

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"...the formula that appears in D5 is ..." / "வைக்கை ඇතුලත් කල යුතු සම්කරණය වන්නේ..." before the formulae then marks will be awarded]

:

iii.
$$= c5-b5$$
 or $+ c5 - b5$ or $=+c5-b5$

[3 marks]

[marks only awarded to only those, if there are any additions or omissions no marks awarded / If the students has written a sentence e.g "...the formula that appears in D5 is ..." / "කෝෂයේ ඇතුලත් කල යුතු සමීකරණය වන්නේ..." before the formulae then marks will be awarded]

=sum(d4:d8) or @sum(d4:d8) or =+sum(d4:d8) or =d4+d5+d6+d7+d8 iv.

[2 marks]

[Note: Only the above 4 answers will be considered as valid if there are any

additions or omissions no marks awarded / If the students has written a sentence

e.g "...the formula that appears in D5 is ..." / "කෝෂයේ ඇතුලත් කල යුතු සම්කරණය වන්නේ..." before the formulae then marks will be awarded] Storing same data repeatedly. E.g Nuha Jameel's details (Teacher ID/Date of i. Birth/Address) repeated

[explanation 2, example 2 marks = 4 marks]

It limits storage capacity, inefficient (wastes time), data can be inconsistent ü. (inability to create proper relationships is also acceptable)

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3.

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[each point 1 mark = 3 marks]

4.

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Teacher Id	(Text/Number/Numeric/String)				
Full name	(Text / String)				
Date of Birth	(Date/Date and Time)				
Address	(Text / String)				
Subject ID	(Text / String)				
Subject Name	(Text / String)				

[each correct data type $\frac{1}{2}$ mark = 3 marks]

Domain name, web site and a host (computer/web host)

Obtain permission of the (web server /host)

Transfer the files to the web server using a fool such as FTP

[1 Mark each step = 3 Marks] [the following explanation should include the correct meaning of words underlined for awarding marks] a) Digital Divide : the gap between the individual communities that have and those who do not have access to information technologies. [3 Marks]

no partial marks awarded . 3 or 0 marks]

b) Encryption : a mathematical <u>technique</u> used to scramble or encode a message into an <u>unreadable format</u>

[2 Marks]

[Note: no partial marks awarded . 2 or 0 marks]

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 c) Firewall : one or more systems that <u>control access</u> to computer networks. It controls access to <u>computers</u> by out side users. It also controls transfer of information from inside network to outside internet

[2 Marks]

[1 Mark]

[1/2 Mark]

[1/2 Mark]

[1/2 Mark]

[1/2 Mark]

•

[Note: no partial marks awarded. 2 or 0 marks]

a. 50 b. No c. Yes

d. Yese. No

f. Number of House Holds

[1 Mark]

[Note: Exact variable name <u>must</u> be specified]

[= 4 Marks]

CTnotes.org

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5.

a.

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(BEGIN/START) (LET/INPUT/Get) Number of Students n

 $\{Process\}$ Student_count = 0

DO-WHILE Student_count <n



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L Mark]

b.



¹ END required if BEGIN used after while loop

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[¹/₂ Mark]

[½ Mark]

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• Reduce Cost of Goods due to reduction of overheads {such as shop

space, electricity, staff salaries, }

• Provide 24 hours 365 days service,

6.

ìi.

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1.

i.

- Selling goods to buyers at a distance {national and international market},
- Digital products can be delivered instantly {by downloading},
- no parking and other problems associated with (traditional/brickand-mortar) shopping

Reach point 1 Mark = 3 Marks] [Note: These advantages have to be "specific" to online

shopping.]

• Use of <u>Firewalls</u>

- Use of (Secure user names and passwords/Access privileges).
- Installing (Virus Guard/Anti virus Application) or

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•

updating the Virus Guard Software, or

Installing Operating System (security patches/ Security Software)

[each point 1 Mark = 2 Marks]

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iii.

ii.

- Displaying advertisements in other websites,
 - Using 'social media' advertisements,
 - sending email advertisements,
 - using traditional media such as TV/Radio adverts or Newspapers
 - etc

[multiple types of this will only be considered for 1 mark]

[each point 1 Mark = 2 Marks]

Υ.

- Know with whom you are dealing with(find out about the seller e.g buy from reputed sites)
- Know exactly what you are buying (read product details/check sellers use of words like "refurbished", "vintage")
- Know how much it will cost (total cost of items including delivery cost

etc)

- Pay using a secure method (Pay by credit card or charge card or any other secure means/use secure sites to buy/Do not send cash)
- Check out the terms and conditions such as return policy etc
- Print or save details (such are reference number) details of your transaction

[each point 1 Mark = 3 Marks]

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7. a) Online Chatting $\mathcal{N}\mathcal{A}\mathcal{A}\mathcal{A}\mathcal{A}$



(cost effective/ cheap) (any time any where availability/24x365 availability/ attachments could be sent can sent multiple copies simultaneously secure from physical damage to documents • [1 mark each = 3 marks]



a)

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- Economic, •
- operational,
- technical feasibilities •

[each point 1 mark = 3 marks]

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Parallel. It is safer **b**)

[method 1 mark, justification 1 mark = 2 marks]



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ICT විෂයට අදාළ සියලූම ඉගෙනුම් උපකාරක එකම තැනකින් ICT notes.org + VLC

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පෙරහුරු හා වාර

විභාග පුශ්න පතු

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