

AVE MARIA CONVENT NEGOMBO

ICT 20 E I

Grade 13

Term Evaluation
June 2023

2 hours

Information	&	Communication	Technology
-------------	---	---------------	------------

Admission	No:
Name:	
Class:	

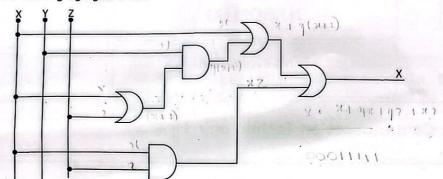
In	STI	TUC	TIC	ons

Answer all the questions. ($50 \times 2 = 100 \text{ marks}$)

In each of the questions 1-50, pick one of the alternative form (1), (2), (3), (4), (5) which is correct or most appropriate and underline it.

1.	Study the following expressions A. There are three busses called; peripheral devices	Data bus, Address Bus and	d control bus to establish th	e connection between CPU and
	B. The clock speed of the proces C. Conductor technology is used	for constructing Chips	s of megahertz(MHz) or gig	ahertz(GHz)
	Which can be considered as a	cceptable statements.		
	(i) A only (ii) B only	(iii) A and B only	(iv) B and Conly	(v) A, B and C only
2.	Enforcing the validity of data by incl suitable word for the blank?	uding same type data in a c	one particular field is known	as What is the most
	(i) Digit check (ii) Range chec	k (iii) Presence Check	(iv) Type Check	(v)Sign check
2	Which of the following technologies	is/are used for Processor C	Cache memory?	
J.	(I) SRAM (ii) DRAM	(iii) EEPROM	(iv) RDRAM	(v) DDR SDRAM
4.	Select the correct statement/ state (A) The major weakness of (B) The architecture was m (C) By this architecture the	it, is the delay of fetching in ade as the computer is ope	nstructions from memory rated with a stored program	
	(I) Only A (ii) Only C	(iii) Only A and C	(iv) Only B and C	(v) A, B, C all
5.	-4A) The electricity used for	rm from memory storage of DRAM is not as same as S ould be done in SRAM Igher than DRAM	f SRAM is comparatively low RAM	
	(i) Only A (ii) Only D	(iii) Only and C	(iv) Only A and D	(v) Only A, B, D
6.	Equal value for 4238 + 1110112			
	(i) 334 ₁₀ (ii)10110010	1 ₂ (iii) 444 ₁₆	(iv) 160 ₁₆	(v) 1613 ₈
7	Melan has a video file of 10189 bits	. What should be the minin	num capacity of the portable	flash drive to store the file?
	(i) 1MB (ii) 1KB	(iii) 256bi		(v)10.25MB
8.	What is the answer when the sum of (i) 00010000 (ii) 1001	the decimal numbers 12 a	and 17 is represented in Bina 1001 (iv) 10010111	ary Coded Decimal(BCD) formati (v) 01100001
9.	What are the input values of the Boo (AB)(A'B)	olean variables A and B in th +(A'B') when the output va	he expression alue is 1	
	(i) When the value A is O and the v	alue B is 1 (i	v) When the value A is 1 and	Control of the contro
	(ii) When the value A is 1 and the value None of the above is correct	value B is 1 (V	 When the value A is 0 and 	the value bis o

10. Study the following logic gate circuit



Select the Boolean expression, which is equal to the output of this circuit

(i) XY+YZ+XZ

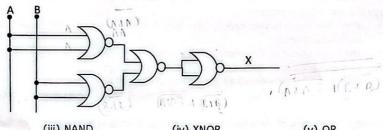
(ii) X+YZ

(iii) X(Y+Z)+XY

(iv) X+Y(X+Z)

(v) X+YZ+XZ

11. What is the logic gate that can be used to represents the given logic circuit, which uses only four NOR gates.



(I) XOR

(ii) AND

(iii) NAND

(iv) XNOR

(v) OR

12. The answer obtained by simplifying $\overline{X} + \overline{Y} + \overline{X}$, will be

(i) XY

(ii) 1

(iii) O

(iv) X

 $(v) \bar{X}$

13. Select the simplified expression of the Boolean expression represented in the Karnaugh map

AB	00	01	11	10
CD				
00	1	0	0	1
01	1	1	0	0
11	1	1	0	0
10	1	0	0	1

(I) $\bar{A}\bar{B}+\bar{A}D+\bar{B}\bar{D}$

(ii) $\overline{B}\overline{D} + \overline{B}\overline{C}\overline{D} + \overline{B}\overline{C}$

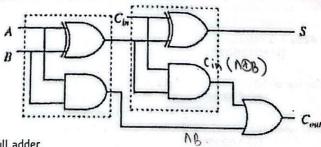
(iii) $\bar{B}\bar{D} + \bar{A}\bar{C}\bar{D} + \bar{A}D$

(iv) $\bar{B}\bar{D} + \bar{A}D$

(v) $\bar{A}D + \bar{A}\bar{B}$

14. Consider the following logic diagram.

Which of the following statements is/are correct about the above circuit?



A. It implements a full adder

B. The logic function of S can be stated as S=A \oplus B \oplus Cin

C. The logic function of C_{out} can be stated as C_{out} =AB+BCin +ACin

D. Part of the circuit within the area surrounded by the dotted line implements a half adder

(i) A and D only (ii) A, B and D only

(iii) A and B only (iv) A, B and C only

(v)All A,B and C

mec (i) N	current execution of seve nanism for executing seve Multi-Threading , Scheduli Multi level , Multi tasking	eral processes by a sing (iii)Mult	ning program is ca ngle processor i-programming, So ti user , Multiplexi	heduling (v	is /) Real Time , <i>N</i>	
requ (i) (ii) (iii) (iv)	ocess is staying in the ma ires immediate execution The state of swapped out The state of swapped out The state of swapped out The state of swapped out The state of swapped out	: and blocked is assigned : and ready is assigned : and waiting is assign t and deleted is assign	ned to the previous I to the previous p ed to the previous aed to the previous	s process process process	nemory space t	to a process, which
	processor time required (ii)	for finishing a process Turnaround time	is named as (iii) Waiting time	(iv) Respon	nse time	(v) Burst Time
(I) CF	e does the memory refer PU register ge Table	ences of the next instr (iii) Program Cou (iv) Process Cont	inter(PC)	cuted are contained (v) Contex	in a currently t switching	running process
	lock size of a disk is 6KB ites the block of the test FAT		llocation Table (FA	T) at a particular ti	me is shown be	low. The portion shown
	200 202 201 200 202 -1 203 201 204 205				******	
Whic	n of the following gives th	entry of a file contain	s the block numbe	r of the first block of the disk space alloc (iv) 203, 1	ated for the te	xt.txt file respectively? (v) 203, 24 KB
two (i) Ei (ii) TI (iii) H (iv) Si	is the correct statement computer? mail host uses SMTP to re ne computer that sends t ere POP and SMTP do a s MTP is used to send a me then exchanging message	eceive emails form em he message uses POP imilar task ssage from one email	ail server to direct the mess server to another	age to the email se		re exchange between
	is the suitable subnet ma 5.255.255.252 (ii) 255					255.255.240
encry (i)	net Control Message Pro ption and data decryption Presentation Layer, Sessi Transport Layer, Physical	n occur in the on Layer (iii) App		seven layer referenc nsport Layer (v	e model.	nto data models, data r, Application Layer
A B C	t the correct statement/ Multiplexing is a methor Frequency Division Mu Time Division Multiplex	od of transmitting mul Itiplexing is widely use king is mostly used in A	tiple signals togeth d in digital signal t Analog signal trans	ransmission mission		
	ommand used to verify the same is And the	nat a device connected	l to a network can			of the network without
(i) (ii)	Tracert command, ipconf Ping command , ipconfig cmd command , tracert o	ig /all command		(iv) telnet comman (v) Ipconfig /all cor	d, ping comma	ınd

Scanned with CamScanner

(i) (ii)	ICMP is used to trans Tracert command is o	ent about ICMP protoco fer error and control da reated by using ICMP po ated by using ICMP proto	ta in TCP/IP rotocol	(iv) ICMP operates in (v) ICMP operates in	Application Layer Internet Layer of TCP/IP
	o Ethernets can be int Hub (ii) Swit			th operates on the data l (iv) Layer 7 Firewall	ink layer. (v) Gateway
(i) (ii)	Data Link, Presentat Physical, Data Link,	corresponding OSI layer ion, Physical, Transport Session, Transport rk, Transport, Applicatio		(iv) Network, Data Lir	nk, Application, Physical k, Physical, Application
28. Sti	udy following facts me	ntioned			
Th	 If the resulting the set tasks are done in, 		from the results	expected, such errors are	
(i)	Unit Testing (ii) Bl	ack box testing (iii)	White box testing	(iv) System Testing	(v)Acceptance Testing
(ii) -(iii) (iv)	Implementation of to Terminating the old Implementation of r	he system only in severa system and implementa newly developed system	al branches and te tion of the new sy only in selected br	called Direct Implementa sting is called phased im stem is done in Parallel i ranches of a department ly developed system is ca	olementation
(i) (ii)	User shall reserve a User shall make a re	nal requirement of an on train seat online servation over the phone formation on interest pla	2	(iv)User shal (v) User sha	l check the train time table I only pay online
	Statement 1 : Bo Statement 2 : Ne	ystem	will function simul at a one departmo	taneously ent of the organization a	nd observe the functionality of nev
	ich answer represents Direct and Parallel d		oyment methods o (iv) P	f above statements respo arallel and stepwise depl	oyment
(ii)	Pilot and Parallel dep Parallel and pilot dep	oloyment		arallel and direct deployn	
(i) *(ii) *(iv)	 The compiler transl The interpreter transl The Interpreter transl The interpreter transl 	islates the program in si islates again the codes t islates all the statement	ement by stateme catement by stater cranslated by the c s into machine lar	ent into machine instruction ment during the execution compiler for executing the aguage instructions at on	ions during the program execution. n of program e program. ce before executing the program e instructions before the execution
		e process model is base oid application model (model (v) Prototype model
(i) (ii)	"Systen" This is an essential r	n shall dispense cash in non-functional requiremo unctional requirement	less than 10 seco ent (iv)T	Machine (ATM) of a ban nds" his is a nice to have non his is a nice to have fund	-functional requirement
35. Th	z = [34	ing python statement is 4, 16, 16, 7, 5] [::-2]			
(print(z (i) [34, 16, 5]) (ii) [16, 7]	(iii) 5, 16, 3	4 (iv) [5, 16,	34] (v) [7,16]

```
36. Study the python statement given below
                               x = ['Kamal', 'Nimal', 'Sunil', 'Anil', 'Ranil']
    What is the Python code that can be used to insert the word 'Wimal' into this list
                                                                                             (v) x.append('wimal')
     (i) Insert Wimal' to x. List
                                                 (iii) list. x.Insert ('Wimal')
    (ii) List(x append) = 'Wimal'
                                                 (iv) List. append (x)=' Wimal'
 37. Following is a python program which can be used to input texts into a text file. But there is an error of the Python statement
     underlined. Select the answer which includes the debugged Python statement.
                                        F=open("H:namelist.txt", "a")
                                        Data=input("Enter Names:")
                                        while (data!=""):
                                                 f.write(data,"\n")
                                                 data=input("Enter Names:")
                                        f.close()
     (i) f.input(data+"\n")
                                                 (iii) f=input(data+"\n")
                                                                                    (v) f=write(data+"\n")
    (ii) f.write(data+"\n")
                                                 (iv) f.insert(data+"/n")
 38. Which one carries correct Python syntax?
     (i) If not (age>0 and age <= 120:
                                                                           (iv) If not(age>0 & age <= 120):
          print ("invalid age")
                                                                                Print("invalid age")
        If !(age >0 and age <= 120)
                                                                           (v) If !(age>0 && age <=120):
                                                                               Print("invalid age")
          Print("invalid age")
    (iii) If! (age>0) and! (age <=120)
          Print ("invalid age")
39. Consider the following Python programs prepared to get the total of all the odd numbers less than 10.
                                                      В
                                                                 total=0
                                                                                         total=0
                     total = 0
                                              total=0
                                                                 for x in (1,3,5,7,9):
                                                                                        for x in range(1,10,2):...
                     x = 1
                                              x=1
                                                                                              total+=x
                                                                     total+=x
                     while(x<10):
                                               while (x=<10):
                                                                 print(total)
                                                                                         print(total)
                                                    total+=x
                         total +=x
                         x+=2
                                                    x+=2
                     print(total)
                                              print (total)
    Which of the above programs is correct?
                                                         (iii) A, C and D only
                                                                                    (iv) B, C and D only
                                                                                                               (v) All
    (I) A and B only
                               (ii) B and C only
40. Consider the pseudo code given below
             X=10
             While X>1
                     X=X-1
             End while
             Print x
    What is equivalence pseudo code for above pseudo code from the below given answers?
                                                             (ii)
                                                                                   for x = 1 to 1 step +1
     for x=10 to 1 step -1
                                            for x = 10 to 1 step -1
                                                                                       next x
           next x
                                                print x
           print x
                                                                                       print x
                                                next x
                     (iv)
                                                             (v)
     for x = 10 to 1 step +1
                                            for x = 10 to 1 step -1
          x=x-1
                                                x = x-1
                next x
                                                 print x
                                                 next x
                print x
41. When these python statements are executed, the result will be,
                               d = (25, "Sri Lanka", 65.5, 40)
                               D[1]="India"
    (1) "India" is inserted in the beginning of the tuple
                                                                  (iv) India is entered after 25
   (II) No change occurs in the tuple
                                                                  (v) Display an error message
```

(III) "India" is inserted replacing "Sri Lanka"

```
42. Study the given python code
               for i in range (1,10):
                   if i % 3==0 or i % 4==0:
                       continue
                   print(i, end =",")
  The output of this python code is
                                                 (v) 2,5,7
 (1) 1, 2, 5, 7
          (ii) 1,2, 5, 7, 10
                       (iii) {1,3,5,7]
                                    (iv) 3,4,6,8,9
43. Which of the following code will create the following lists on the web browser?

    Boys

                          1.
                             MSC
                          11.
                             SMC
                          III.
                             JVC
                       2. Girls
                           c. AMC
                           d. HFC
                           e. SBC
        /(i)
        Boys
         MSC  SMC  JVC 
        Girls
         AMC HFC  SBC 
        ≠(ii)
        Boys
         MSC  SMC  I> JVC 
        Girls
         AMC  HFC SBC 
        (iii)
        Boys
         MSC  SMC JVC 
        Girls
        col start="3" type="c"> AMC HFC  SBC 
        × (iv)
        Boys
         MSC  SMC JVC 
        Girls
         AMC  HFC  SBC 
        + (v)
        Boys
         MSC  SMC  JVC 
        Girls
         AMC  HFC  SBC 
        44. What is the output of the following php code segment?
```

\$v2=2; \$v3=8; Echo (\$v3) * \$v1--; Echo ++\$v1 + \$v3; Echo \$v2; (i) 40132 (ii) 40142 (iii) 40122 (iv) 32122 (v) error

Sv1=5;

nead> <title> Learn FORMS</title>	
H2> Welcome to ABC College form>	
udent Name <input name="stname" type="text"/>	
or> dex Number <input name="IndexNo" type="text"/>	
form>	
form> <input name="Gender" type="radio" value="male"/> Male <input ty<br=""/> Female	pe="radio" name="Gender" value
nput type="submit" value="OK">	
nput type="Reset" value="Reset"> body>	
HTML>	
(1)	
Welcome to ABC College	
Student Name Index Number	
O Male O Female	
OK Reset	
(II)	
Welcome to ABC College	
Student Name Index Number	
O Male O Female	•
OK Reset	
(III)	
Welcome to ABC College	•
Student Name Index Number	
O Male O Female	
OK !	,
Reset	
(IV)	
Welcome to ABC College	
Student Name	
Index Number	
O Male O Female	
OK Reset	
(V)	
Welcome to ABC College	
Student Name	
Index Number	
O Male O Female	

Ave Maria Convent - Negombo / Term Evaluation / Grade 13- Part I / Information & Communication Technology (ICT) - June 2023
7 | Page

Use the following HTML code to answer the question numbers 46 and 47

```
abcZone.css
<html>
<head>
                                                             h1(color: yellow;)
<title> ABC Zone </title>
                                                             p(color : green;)
<style>
h1(color:pink)
p{color:orange}
</style>
</head>
<body>
<h1 style="color:blue;" class="h1"> This is a heading </h1>
 This is a paragraph 
</body>
</html>
```

- 46. The correct instruction code to insert the CSS file abcZone.css into this web page is,
 - (i) link href="abcZone" rel="stylesheet" type="text/css"/>
 - (ii) link href="abcZone.css" rel="stylesheet" type="text/css"/>
 - (iii) link href="abcZone.css" type="text/css"/>
 - (iv) k href="stylesheet" rel="abcZone.css" type="text/css"/>
 - (v) <href link="stylesheet" rel=" abcZone.css" type="text/css"/>
- 47. The method how the sentences "This is a heading" and "This is a paragraph" are display in the web browser after inserting the CSS file abcZOne.css is,
 - (i) The sentence "this is a heading" is displayed in blue and the sentence "This is a paragraph" is displayed in red
 - (ii) The sentence "this is a heading" is displayed in blue and the sentence "This is a paragraph" is displayed in orange
 - (iii) The sentence "this is a heading" is displayed in pink and the sentence "This is a paragraph" is displayed in orange
 - (iv) The sentence "this is a heading" is displayed in yellow and the sentence "This is a paragraph" is displayed in green
 - (v) The sentence "this is a heading" is displayed in red and the sentence "This is a paragraph" is displayed in blue
- 48. Examine the expressions mentioned about Reverse Auction
 - (A) The seller can sell the product at the highest price
 - (B) Buyer can purchase the product at the highest price
 - √(C) Increasing the product price considerably, since competitive process declared among sellers
 - (D) Decreasing the product price considerably, since competitive prices declared among sellers

What will be correct from the statements?

- (i) Only A
- (ii) Only B
- (iii) Only C
- (iv) Only D
- (v)Only A and C
- 49. Government bill payments can be made using online methods nowadays. What is the e-business type related to this service
 - (i) G2C Government to Citizen
- (iv)G2E Government to Employee
- (ii) G2B Government to Business
- (v) G2G Government to Government
- (iii) G2H Government to Households
- 50. Which of the following is True?
 - A. It could be a part of e-business.
 - B. It consists of front-end and back-end online processes.
 - C. Any e-commerce application is an e-business application.
 - D. Pure-click business has the presence only on the Internet.
 - (i) A and D only
- (ii) A, B and D only
- (iii) A, C and D only
- (iv) B, C and D.only
- (v) All A, B, C, D



විභාග ඉලක්ක පහසුවෙන් ජයගන්න

පසුගිය විභාග පුශ්න පතු



 Past Papers
 Model Papers
 Resource Books for G.C.E O/L and A/L Exams





විභාග ඉලක්ක ජයගත්ත Knowledge Bank











Whatsapp contact +94 71 777 4440

Website WWW.IOI.IK



071 777 4440



All ∨

Search Books Here..

Hotline
 071 777 4440
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □
 □



Sinhala Medium





≡ Shop By Grade

Home

Shop

Grade Grade

Grade 3

Grade 4

Grade 5

Grade 6

Grade

Grade 8

Grade

Grade

Grade

G.C.E O

Grade

Grade

G.C.E A

GOVERNMENT EXAMS

View All

O/L Past Paper Books



O/L English language Past Paper Book - Master Guide

රු 900.00

or 3 X රු**300.00** with **wintpay**



O/L Sinhala Language Past Paper Book - Master Guide

රු 850.00

or 3 X δί**283.33** with **wintpay**



English Medium

O/L History Past Paper Book - Master Guide

රු 900.00

or 3 X රු**300.00** with **wintpay**



O/L Mathematics Past Paper Book - Master Guide

රු 850.00

or 3 X δ₂**283.33** with **wintpay**



O/L Science Past Paper Book - Master Guide

රු 850.00

or 3 X රු**283.33** with wintpay



O/L Buddhism Past Paper Book - Master Guide

රු 750.00

or 3 X o₂250.00 with wintpay



O/L Second Language Tamil Past Paper Book – Master Guide

රු 700.00

or 3 X රු**233.33** with wintpay



O/L Second Language Sinhala Past Paper Book – Master Guide

රු 800.00

or 3 X රු**266.67** with wintpay



O/L Design And Mechanical Technology Past Paper Book – Master Guide

රු 650.00

or 3 X & 216.67 with wintpay