



**G.C.E. (A/L) Examination – July 2019**  
**Conducted by Field Work Center (FWC), Thondaimanaru**  
**In Collaboration with the Northern Provincial Education Department**  
**General Information Technology (GIT)**

பொதுத் தகவல் தொழினுட்பவியல் I  
 General Information Technology I

Three hours

01

E

I

Gr. 12 (2020)

**Instructions:**

- ❖ Answer all questions
- ❖ Write down your index number on the space provided.
- ❖ In each of the questions 1 to 40, pick one of the alternatives (1),(2),(3),(4) which is correct or most appropriate. Mark a cross (X) on the number corresponding to your choice in the answer sheet provided.
- ❖ No use of calculators.

1. What was the major technology used in first generation computers?  
 (1) Vacuum tube                      (2) Transistor                      (3) Microprocessor                      (4) Integrated circuit
2. The octal equivalent of  $110011_2$  is.  
 (1)  $16_8$                       (2)  $63_8$                       (3)  $24_8$                       (4)  $35_8$
3. Which of the following is an application software?  
 (1) GNU /Linux                      (2) Mac OS X                      (3) MS-Windows                      (4) Ms-Word
4. “Pascaline calculating device was designed by .....”.  
 Which of the following is appropriate to fill the blank in?  
 (1) John Von Neumann                      (2) Ada Augusta Lovelace  
 (3) Blaise Pascal                      (4) Charles Babbage
5. Consider the following devices.  
 A – Mouse                      B – Trackball                      C – Printer  
 Which of the above is/are input device(s)?  
 (1) A only                      (2) B only                      (3) C only                      (4) A,B only
6. Which of the following is a file format of sound?  
 (1) jpg                      (2) mp3                      (3) gif                      (4) bmp
7. Which of the following is an unguided medium?  
 (1) Radio wave                      (2) Fiber optic cable  
 (3) Twisted pair cable                      (4) Co-axial cable

8. Which of the following is not a function of an operating system?

- (1) Memory management
- (2) Protecting computer from viruses
- (3) Providing user interfaces
- (4) Process management

9. In computer system, ROM stands for.

- (1) Read Only Memory
- (2) Random Only Memory
- (3) Random Over Memory
- (4) Read Only Method

10. Consider the following statements.

- A – Issuing identity cards to the citizens of the country via online
- B – Selling of goods by a business to its customers using the Internet
- C – Providing services by a private bank to its customers using the Internet banking system

Which of the above are considered as e-Government services?

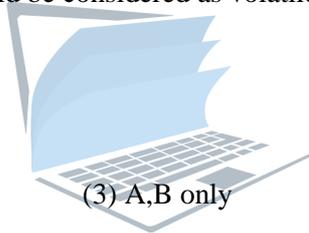
- (1) A only
- (2) B only
- (3) C only
- (4) A,B,C all

11. Which of the following memories could be considered as volatile memories?

- A – cache memory
- B – register
- C – read only memory

Which of the above is/are correct?

- (1) A only
- (2) B only
- (3) A,B only
- (4) A,B,C all



12. 2GB =

- (1)  $2^{11}$  bytes
- (2)  $2^{11}$  megabytes
- (3)  $2^{16}$  megabytes
- (4)  $2^{10}$  bytes

13. Consider the following statements about word processing software.

- A – It allows to edit video in a document
- B – It allows to draw diagrams in a document
- C – It allows to edit text already typed

Which of the above is /are correct?

- (1) A only
- (2) B only
- (3) C only
- (4) B,C only

14. In a word processing software, which of the following icon that can be used to copy text of a document?

- (1) 
- (2) 
- (3) 
- (4) 

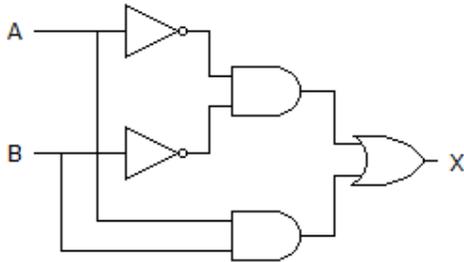
15. Which of the following statement is correct about a table created in a word processing software ?

- (1) Width of column in a table cannot be adjusted
- (2) Width of row in a table cannot be adjusted
- (3) Cells of a table cannot be merged
- (4) Cell of a table may be further split

16. Which of the following is not an information?

- (1) Average temperature for the month of June in Jaffna town
- (2) The highest marks out of 40 students for a Mathematics examination held in a class
- (3) Computer's speed
- (4) Whether report

17. What is the equivalent logic of the output X in the following logic circuit?



- (1) AND
- (2) OR
- (3) NOR
- (4) XOR

18. Which of the following storage medium consists of large storage capacity?

- (1) CD
- (2) DVD
- (3) Harddisk
- (4) Floppy disk

19. Which of the following is a magnetic storage medium?

- (1) DVD
- (2) Flash drive
- (3) Floppy disk
- (4) SSD

20. Which of the following lists consist of only sound file formats?

- (1) GIF, JPG, MP3
- (2) MP3, AVI, WMA
- (3) JPG, TIFF, MP4
- (4) TIFF, PNG, MP3

agaram.lk

21. Which of the following HTML tag is used to insert a horizontal rule on a web page?

- (1) `<hr>`
- (2) `<br>`
- (3) `<p>`
- (4) `<img>`

22. Consider the following statements.

- A – Data access speed of a floppy disk is higher than that of hard disk
- B – Data access speed of a compact disc is lower than that of hard disk
- C – Data access speed of random access memory is higher than that of hard disk

Which of the above is /are correct?

- (1) A only
- (2) A,C only
- (3) B,C only
- (4) A,B,C all

23. Which of the following HTML code segment can be used to render the following result on a webpage?

- iv. Guitar
- v. Violin
- vi. Mandolin

(1)

```
<ol type="i" start="4">  
  <li> Guitar </li>  
  <li> Violin </li>  
  <li> Mandolin </li>  
</ol>
```

(2)

```
<ol type="1" start="4">  
  <li> Guitar </li>  
  <li> Violin </li>  
  <li> Mandolin </li>  
</ol>
```

(3)

```
<ol type="i">  
  <li> Guitar </li>  
  <li> Violin </li>  
  <li> Mandolin </li>  
</ol>
```

(4)

```
<ol type="a">  
  <li> Guitar </li>  
  <li> Violin </li>  
  <li> Mandolin </li>  
</ol>
```

24. Consider the following truth table.

X	Y	output
0	0	1
0	1	1
1	0	1
1	1	0



Which of the following logic gate represents the truth table given above?

- (1) AND                      (2) OR                      (3) NAND                      (4) NOR

25. Which of the following is an example for spreadsheet software?

- (1) Word perfect      (2) Open office.org calc      (3) Adobe illustrator      (4) Ms-Access

26. In an electronic presentation software, while key N is pressed in a slideshow mode.

- (1) Slide gets white colour  
(2) Slide gets black colour  
(3) Slide moves to previous slide  
(4) Slide moves to next slide

27. The following icon in a word processing software is used to.



- (1) paste the text highlighted  
(2) increase the font size highlighted  
(3) bold the word next to the cursor  
(4) decrease the font size highlighted

28. Consider the following worksheet prepared in a spreadsheet software. What will be the value obtained in cell C2 if the formula =A\$1+B1 written in cell C1 is copied to cell C2?

	A	B	C	D
1	2	5	7	
2	3	4		
3				
4				

- (1) 7                                      (2) 5                                      (3) 4                                      (4) 6

29. What will be the formula in cell C2 if the formula written in cell C1 is copied to cell C2 as given above in question 28?

- (1) =A1+B1                              (2) =A\$1+B2                              (3) =A2+B2                              (4) =A\$2+B2

30. Consider the following data table.

SupplierID	SupplierName	Location	Gender
1001	J.N.Perera	Galle	Male
1002	S.Vimal	Jaffna	Male
1003	A.Rahula	Kandy	Female

Which of the following field can be set as a primary of this table?

- (1) SupplierID                              (2) SupplierName                              (3) Location                              (4) Gender

31. Which of the following database facility can be used to filter out data from database table?

- (1) Report                              (2) Table                              (3) Query                              (4) Form

32. Consider the following statements.

- A – Spreading of virus into another’s computer
- B – Using of another’s computer without permission
- C – Using of another’s login details without their consent

Which of the above is /are not considered as computer ethics?

- (1) A only                              (2) B only                              (3) C only                              (4) A,B,C all

33. The following figure consists of a ..... connector. Which of the following is appropriate to fill the blank in?



- (1) USB                              (2) PS/2                              (3) MIDI                              (4) VGA

34. Consider the following statements about money withdrawal in an automated teller machine.

A – Inserting secret code of automated teller machine's card

B – Money and receipt

C – Verifying whether enough money is available

Input, process and output are respectively in this scenario.

- (1) B,A,C                      (2) C,A,B                      (3) A,B,C                      (4) A,C,B

35. Consider the following statements.

A – downloading from unknown websites

B – sharing of private information with unknown persons

C – using secure websites

Which of the above is /are good habits of the Internet usage?

- (1) A only                      (2) B only                      (3) C only                      (4) A,B,C all

36. Which of the following is correct statement about the Internet and world wide web?

(1) There is no relationship between the Internet and world wide web

(2) The Internet and world wide web are the same

(3) The Internet is the one of the service of the world wide web

(4) The world wide web is the one of the service of the Internet

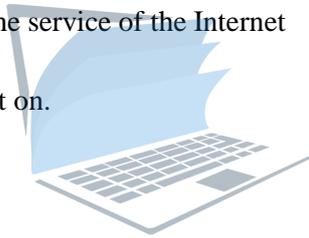
37. Quality of a digital image is dependent on.

(1) Capacity of computer memory

(2) Speed of microprocessor

(3) Resolution

(4) Capacity of a hard disk



38. Which of the following is not considered as a basic component of a computer system?

(1) Software

(2) Hardware

(3) Liveware

(4) Malware

39. People who develop software are called .....

(1) Analyst

(2) Programmer

(3) Manager

(4) User

40. The practice of taking someone else's work and passing it off as one's own is called.

(1) plagiarism

(2) software piracy

(3) copyright

(4) data privacy

\*\*\*\*\*



**G.C.E. (A/L) Examination – July 2019**  
**Conducted by Field Work Center (FWC), Thondaimanaru**  
**In Collaboration with the Northern Provincial Education Department**  
**General Information Technology (GIT)**

பொதுத் தகவல் தொழினுட்பவியல் II  
 General Information Technology II

Three hours

01

E

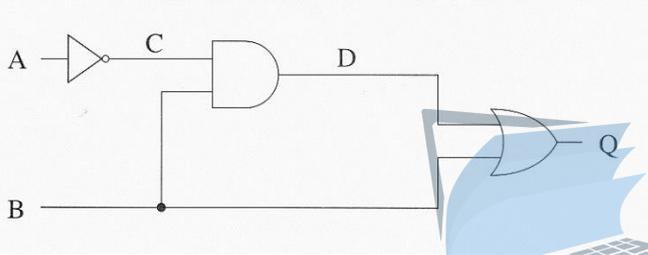
II

Gr. 12 (2020)

Answer any five questions only

1.

- (a) Give  $ABC_{16}$  in binary form.  
 (b) Consider the following logic circuit.



Complete the following truth table according to the logic circuit given. Copy the table in your answer script.

A	B	C	D	Q
0	0			
0	1			
1	0			
1	1			

(c) Write down system software out of the following software.

- (i) Ms-Windows
- (ii) Ms-Word
- (iii) GNU/Linux
- (iv) Open office.org impress
- (v) Google chrome

[Note: No marks given for additional answers]

(d) Write down any three network topologies used in computer networks.

(e) Computers can be classified into two categories according to the purpose. What are they?

2.

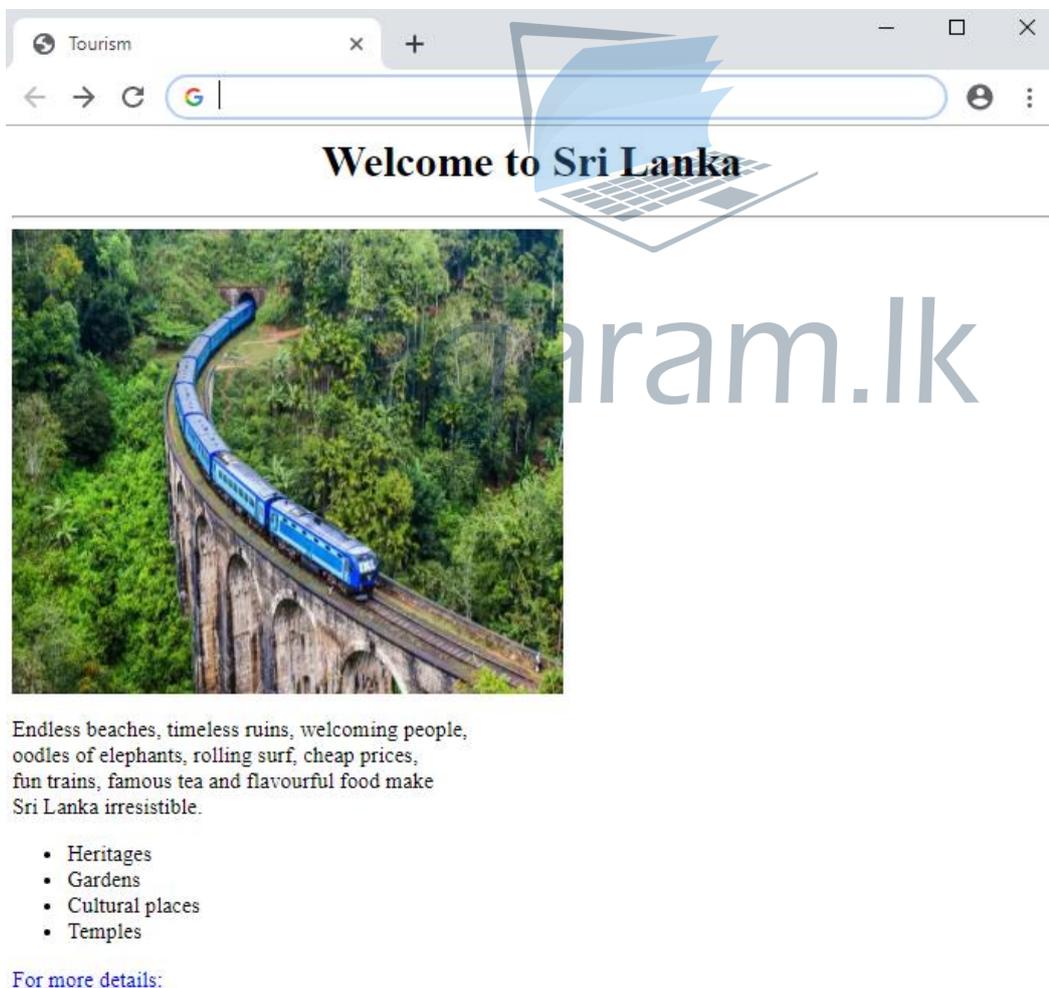
(a) Match column X and Y suitably in the following table.

	X		Y
(i)	Sound port	(a)	Computer monitor
(ii)	PS/2 port	(b)	Network cable
(iii)	MIDI port	(c)	Speaker
(iv)	RJ-45 port	(d)	Mouse

(b) Answer the following questions briefly.

- (i) Write down two health issues that may cause while you work continuously in computer.
- (ii) Give any two precautionary measures in order to avoid those health issues.
- (iii) State two physical security methods to protect computers.
- (iv) State two logical security methods to protect computers.

3. Consider the following webpage.



Endless beaches, timeless ruins, welcoming people, oodles of elephants, rolling surf, cheap prices, fun trains, famous tea and flavourful food make Sri Lanka irresistible.

- Heritages
- Gardens
- Cultural places
- Temples

[For more details:](#)

The HTML code to create the webpage given is given below. Choose the words from the list given below to fill the blank in from A to J.

```

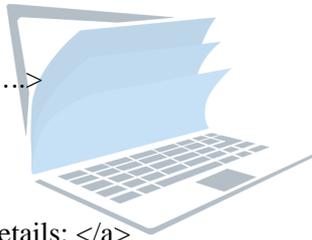
<html>
<head>
  <title> Tourism </title>
</head>
<body>

<...A.....><.....B.....>Welcome to Sri Lanka</.....B.....></.....A.....>
<.....C.....>
<.....D... src="train.jpg" .....E.....="train" width="400" height="340">
<.....F....> Endless beaches, timeless ruins, welcoming people,<br>
oodles of elephants, rolling surf, cheap prices,<.....G.....>
fun trains, famous tea and flavourful food make <br>
Sri Lanka irresistible. </...F.....>

<.....H... >
  <.....I...> Heritages </.....I...>
  <.....I...> Gardens </.....I...>
  <.....I...> Cultural places </...I.....>
  <.....I.....> Temples </.....I.....>
</.....H....>

<a ...J.....="srilanka.html"> For more details: </a>
</body>
</html>

```



agaram.lk

**Lists:** [br, href, alt, hr, img, center, li, p, h1, ul]

4. Consider the following three relational database tables.

Student

StudentId	StudentName
S1	Janakan
S2	Tharanki
S3	Hakeem

Subject

SubjectId	SubjectName
SU1	Maths
SU2	Physics
SU3	ICT

Student\_Subject

StudentId	SubjectId	Marks
S1	SU1	89
S2	SU1	78
S1	SU2	94
S3	SU2	76
S2	S3	67

- (a) Write down primary keys with corresponding tables given above.
- (b) Write down foreign keys with corresponding tables given above.
- (c) Write down data types suitable for the following fields.
- (i) StudentId
  - (ii) SubjectId
  - (iii) StudentName
  - (iv) Marks
  - (v) SubjectName
- (d) What is /are the table(s) that can be used to write a query for obtaining details such as students' names and subjects' names sat by them.

5.

- (a) Consider the following worksheet segment created using spreadsheet software.

It consists of information relating to computer literacy rate in each province in Sri Lanka (Data source: [www.statistics.gov.lk](http://www.statistics.gov.lk) year of 2017 - first six months).

	A	B
1	Province	Computer literacy rate
2	Western	38.6
3	Central	30.2
4	Southern	29.1
5	Eastern	13.7
6	Northern	15.1
7	North-western	28.3
8	North-central	20.9
9	Uva	15.5
10	Sabaragamuwa	26.8
11	Minimum	13.7
12	Average	24.3
13	Maximum	38.6

- (i) Write down a formula using a suitable function to find out minimum computer literacy rate in cell B11.
- (ii) Write down a formula using a suitable function to find out average computer literacy rate in cell B12.
- (iii) Write down a formula using a suitable function to find out maximum computer literacy rate in cell B13.
- (iv) Write down any two types of chart that can be used to display computer literacy rate provincially and names of provinces in a chart.

6. Consider the following paragraph formatted using word processing software.

## Time Management Tips for Students

Time Management is nothing but managing time well and doing the right thing at the right time. It is essential for individuals to allocate specific time slots to tasks as per their importance and urgency. Time Management plays a pivotal role not only in organizations but also in an individual's personal life. Students aspiring for achieving in education need to value time to reach the pinnacle of success and stay firmly entrenched at the top.

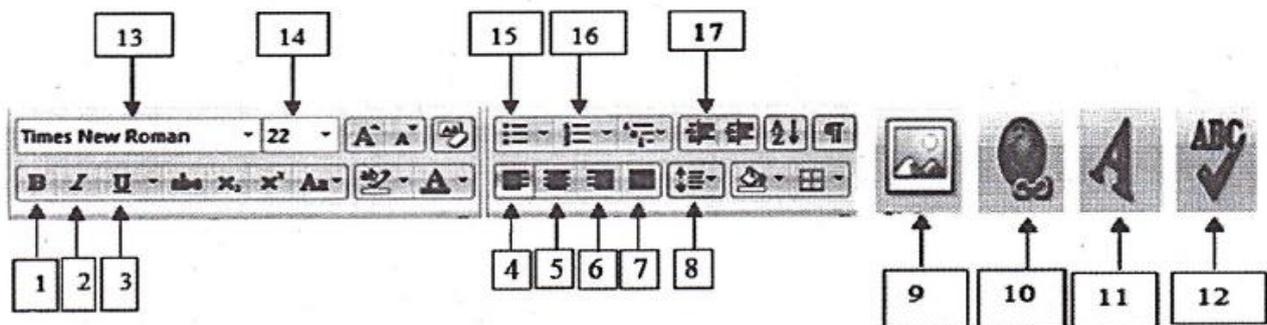


Let us go through some Time Management tips for Students:

1. **Set a goal for yourself:** Know what you want to achieve in life. Take a pen and paper and write down where you want to see yourself five years from now. Setting an objective for yourself gives you a sense of direction.
2. **Organize your study space:** Arrange books and study material properly at their respective places. Stationery items must not be scattered on the table.
3. **Plan your studies:** Understand what all subjects are important and need to be done first. Go through your syllabus carefully. Find out the weightage of each subject and prepare a Task plan accordingly.
4. **Remove all sources of distractions from your study zone:** Prefer not to keep magazines, comics, novels, CDs, video games in your study room. **Studying and watching television simultaneously is nothing but a waste of time.**
5. **Do include some time for relaxation as well:** No individual can study continuously at a stretch. One needs time to relax and unwind.

For further reading: <http://www.timeiseverything.com>

Write down how the tasks given below are completed by using the following tools in the toolbar.



- (i) Format the text as shown by label ❶
- (ii) Align paragraph as shown by label ❷
- (iii) Insert an image in the document as shown by label ❸
- (iv) Format the text as shown by label ❹
- (v) Format the text as shown by label ❺
- (vi) Create a hyperlink as given by label ❻
- (vii) Have 1.2 sized line spaces in the paragraph
- (viii) What is the tool that can be used to rectify errors in the words in this paragraph?

[**Note:** Assume that the font size given in the paragraph is 11 and no marks will be awarded if more than the required number of labels are written]

\*\*\*\*



agaram.lk