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2nd Term Examination, November 2022

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Information & Communication Technology (Grade 11) I

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One Hour

Information & Communication Technology I

Instructions:

- Answer all Questions.*
- In each of the questions 1 to 40, pick one of the alternatives (1), (2), (3), (4) which you consider as correct or most appropriate.*
- Mark a cross (X) on the number corresponding to your choice in the answer sheet provided.*
- Total marks will be Forty (40) for Part I*

- Select the example which **CANNOT** take as an example for a *Quality of Information*?
 - If a doctor gets the wrong health information, it could be harmful to the patient.
 - It is compulsory to submit all the academic information from grade 01 onwards when the requirement is to submit only the highest educational qualification.
 - The information must always be updated. Today's weather report may not be suitable to decide on tomorrow's weather.
 - If an organization spends money more than the profits to collect some information in order to increase profits, it would be a business loss to the organization.
- Select the **CORRECT** statement(s) of the following:

A - Keyboard and mouse used for data input started in 3rd Generation computers.
 B - Use of the Operating Systems started with 2nd Generation Computers.
 C - UNIX OS introduced with 4th Generation Computers.

(1) A only (2) B and C only (3) A and C only (4) All A, B and C
- Which of the following **CANNOT** consider as a *demerit of ICT*?
 - Downloading copyrighted content with the permission of the owner from the internet.
 - Building unsuitable friendships through social media.
 - Negative effects on psychology of a person by visiting improper websites.
 - Publishing of edited photographs and videos of individuals affecting their personal lives.
- Select the **CORRECT** statement(s) of the following:

A - Keyboard and mouse used for data input started in 3rd Generation computers.
 B - Use of the Operating Systems started with 2nd Generation Computers.
 C - UNIX OS started in 4th Generation Computers.

(1) A only (2) B and C only (3) A and C only (4) All A, B and C
- Which of the following is **NOT** an **ESSENTIAL** component of a *laser printer*?
 - Toner
 - Drum
 - Mirror
 - Ink Nozzle Head

6. Select the **CORRECT** statements regarding *Computer Ports*:

A - A Parallel port consists of 25 holes.

B - A VGA port consists of 15 holes.

C - HDMI port can use to connect digital speakers.

(1) A and B only (2) B and C only (3) A and C only (4) All A, B and C

7. Which of the following **CANNOT** consider as a *benefit of Networking*?

(1) Less storage space

(2) Ability to control central software

(3) Training Requirements

(4) Share resources

8. What is the *Decimal equivalent* of 13_8 ?

(1) 11_{10}

(2) 13_{10}

(3) 15_{10}

(4) 19_{10}

9. Raj bought a broadband FTTx (fiber) connection to his house, which advertised the download speed as 100Mbps. Nevertheless, whenever he downloads a file, the download speed shows as 11.9MBps. What could be the reason for this result?

(1) There could be a transmission impairment in data communication (noise, attenuation, etc.)

(2) The signal strength is not enough for his house.

(3) The company has advertised fake speeds as 100Mbps.

(4) There are no issues in the above scenario.

10. Consider number 180_x . Here, 'x' is the base of the number system. From the number systems, to which number system(s) 180_x belongs to?

(1) 2 and 10

(2) 8 and 16

(3) 10 and 16

(4) 2 and 8

11. What is the **equivalent logic gate** for the following circuit diagram in *figure 1*?

(1) OR Gate

(2) NOR Gate

(3) AND Gate

(4) NAND Gate

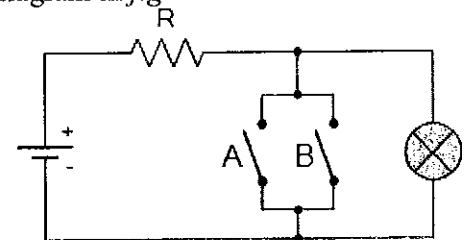


Figure 1

12. The operation of the logic circuit in *figure 2* can represent using one gate.

(1) NOT

(2) NOR

(3) NAND

(4) AND

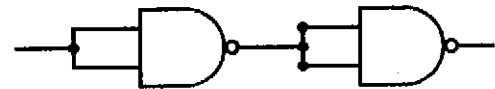


Figure 2

13. Consider the following statements:

A - The boot instructions which stores in a ROM is called firmware.

B - RAM uses the 'sequential access' method to access files.

C - Disk Defragmentation helps to increase the storage size in a hard disk.

D - Linux based Operating Systems does not use the defragmentation process.

Which of the above statement(s) is/are **TRUE** regarding *Operating Systems*?

(1) A and D only

(2) A only

(3) B and C only

(4) All A, B, C and D

14. The **ReiserFS** file system is used by,
 (1) Linux OS (2) Microsoft Windows OS
 (3) Blackberry OS (4) Android OS
15. In a *Word Processing Software*, the $\text{A} \downarrow \text{Z}$ button used to
 (1) Sort the text
 (2) Change the text direction (from Top to Bottom)
 (3) Move text from top to bottom
 (4) Decrease the font size
16. Select the **CORRECT** statement regarding *Mail Merge* in a Word Processing Software?
 (1) It is a must to have a data source to store all the addresses.
 (2) It is compulsory to include all the address blocks/fields to every page.
 (3) A Master Document is not mandatory.
 (4) Mail Merge cannot use to print a collection of names in certificates.
17. Consider the following statements:
 A - 'Ctrl + Home' is used to move the active cell to A1 position
 B - C\$5 is an example for Row absolute cell reference
 C - The fill handle is used to copy formulae.
- Which of the above statement(s) is/are **TRUE** regarding *Spreadsheet Applications*?
 (1) C only (2) B and C only (3) A and B only (4) All A, B and C
18. What is the **result** of the following equation when simplifies using a *Spreadsheet Application*?

$$7 / 2 + 1 ^ 3 * 2$$

 (1) 4.5 (2) 182.25 (3) 1.33 (4) 5.5
19. What is **NOT** a characteristic of a *good quality presentation*?
 (1) The acceptable font size is 32pt or more.
 (2) It is a must to double-check grammar, spellings, and the use of language.
 (3) Ideal to use two or more animation for each slide.
 (4) OpenOffice Impress is a Proprietary software.
20. Select the answer which consists the function of the following buttons named (A), (B), (C) and (D) respectively in *figure 3*,

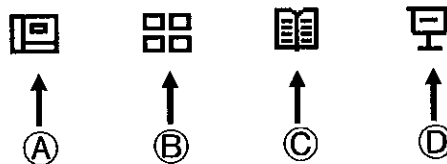


Figure 3

- (1) A – Reading View, B – Slide Show, C – Normal View, D – Slide Sorter View
 (2) A – Normal View, B – Slide Sorter View, C – Reading View, D – Slide Show
 (3) A – Slide Sorter View, B – Reading View, C – Slide Show, D – Normal View
 (4) A – Slide Show, B – Normal View, C – Slide Sorter View, D – Reading View

/ see page four

21. Select the answer which **CANNOT** consider as a *feature of an electronic database*?
- (1) Increase Data Validity (2) Minimizing Data Consistency
(3) Increase Data reliability (4) Minimize Data Redundancy

22. What could be the **Data Type** of the field shown in *figure 4*?

- (1) Numeric (2) Integer
(3) Real (4) Text

Telephone
0112111111
0112222222
0112333333
0112444444

Figure 4

23. Consider the following statements:

- A - High-Level Languages are processor independent.
B - Symbolic names for commands began to use from the 2nd Generation Languages onwards.
C - Machine Languages are not used in computers nowadays.

Which of the above statements are **TRUE** regarding '*Programming Languages*'?

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

24. What is the result of the following *Pascal expression*?

$$20 - 9 \text{ DIV } 2 * 3$$

- (1) 17 (2) 15 (3) 8 (4) FALSE

25. What is **NOT** an attribute of *Arrays in Programming*?

- (1) The Index number of an element in an array always starts with '0'.
(2) Elements in an array positioned next to each other. (*Re-Adjacently*)
(3) The index number should always indicate in square brackets [], with the array name.
(4) The index number of the last element of an array with *n* elements is 'n'.

26. What is **NOT** an activity to perform during the Solution Designing stage in a *System Development Life Cycle (SDLC)*?

- (1) Identifying sub-system dependencies.
(2) Identifying main hardware systems and components.
(3) Designing the User Interfaces
(4) Modelling a Prototype.

27. "*The deployment of the system is done in stages*". This deployment method is known as,

- (1) Direct Deployment (2) Phase Deployment
(3) Parallel Deployment (4) Pilot Deployment

28. What is the suitable **SDLC Model** which can be used when the SDLC project *satisfies the following conditions*?

- a. The requirements are well-known (not ambiguous).
b. The fully developed system can be found at the final stage.

- (1) Waterfall Model (2) Iterative Incremental Model
(3) Spiral Model (4) Prototyping Model

29. Consider the following statements.

- A - An IP address helps to identify the computers uniquely in a network.
- B - The ISP provides a (dynamic) IP Address to the client when connecting to the internet.
- C - 192.168.256.10 is an example of an IP address.

Which of the above statement(s) is/are **TRUE** regarding *IP Addresses*?

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

30. Which **Protocol** is used to inform *an error of the data packet* to the sender, which occurs during data transmission?

- (1) HTTP
- (2) SMTP
- (3) ICMP
- (4) TCP/IP

31. Which of the following is **NOT** an essential component for the *video conference* between two computers?

- (1) Network Interface Cards (NIC)
- (2) Web Cameras
- (3) Communication Software
- (4) A network switch

32. Given below are the seven (07) stages of the *Web Development Process*.

- A - Design and Develop the website
- B - Add a Domain name
- C - Find a web host
- D - Test the website
- E - Identify the concept
- F - Update and Manage the website
- G - Upload the website to servers

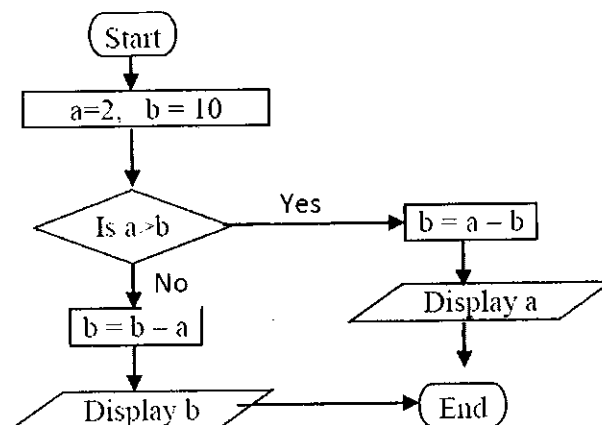


What is the **CORRECT** order of the *Web Development Process*?

- (1) E → A → G → B → D → C → F
- (2) E → C → A → B → D → F → G
- (3) E → A → B → C → G → D → F
- (4) A → E → B → C → G → F → G

33. What is the **output** of the below flowchart?

- (1) -2
- (2) 2
- (3) -8
- (4) 8



Questions 34, and 35 based on the sample HTML code in figure 5 and the output in figure 6

```

①
    ②<b>Fruits</b>②
        ③Apple③
        ③Orange③
        ③Banana③
    <br>
    ②<b>Vegetables</b>②
        ③Carrot③
        ③Pumpkin③
        ③Green Beans③
①

```

Figure 5 – HTML Code

```

Fruits
  Apple
  Orange
  Banana

Vegetables
  Carrot
  Pumpkin
  Green Beans

```

Figure 6 - Output

34. What should be the tag in ① to get the output as in figure 6?
- (1) <body> </body> (2) <html> </html>
 (3) <dl> </dl> (4)
35. What should be the tag in ② and ③ in order to get the output as in figure 6?
- (1) ② - <dt> </dt>, ③ - <dd> </dd> (2) ② - , ③ -
 (3) ② - <dd> </dd>, ③ - <dt> </dt> (4) ② - , ③ -
36. Which of the following can be considered as an IP Address?
- (1) 193.213.78.275 (2) 193.213.78.154
 (3) 0.0.0.0 (4) 193.213.78
37. What is the domain name of <http://www.schoolnet.sch.lk/2017/winners.html>?
- (1) http (2) schoolnet.sch.lk/2017/winners.html
 (3) winners.html (4) schoolnet.sch.lk
38. If 'n' and 'm' in the below pseudocode are integers, which of the following statement is true?
- ```

n = 8
m = 4
While m > 3
DO
 n = n-1
END WHILE

```
- (1) Repeat three (03) times  
 (2) Repeat only once  
 (3) Repeat never ends  
 (4) Repeat never starts
39. An example of a low level computer language?
- (1) Java (2) Prolog (3) Python (4) Assembly
40. In this system development model, the users can only see the newly developed system at the final stage?
- (1) Spiral (2) Waterfall (3) Prototype (4) Incremental