



ST. PETER'S COLLEGE – COLOMBO 04

THIRD TERM TEST – 2021

GRADE 8 _____ – COMPUTER STUDIES

1 HOUR

Admission Number :

Class No:.....

Name:

ANSWER ALL QUESTIONS

Q1. Underline the MOST SUITABLE answer.

(2 x 30 = 60 marks)

1. The base of 10100_{10} is?

- i. 2 ii. 10 iii. 0 iv. 1

2. A number system using two (02) symbols is known as a number system.

- i. Binary ii. Decimal iii. Octal iv. Hexadecimal

3. What is the Binary value of 245_{10} ?

- i. 245_2 ii. 365_2 iii. 10101111_2 iv. 11110101_2

4. What is the Decimal value of 0001101_2 ?

- i. 58_{10} ii. 88_{10} iii. 130_{10} iv. 13_{10}

5. In a Binary number system, each digit is called a?

- i. Byte ii. Number iii. Data iv. Bit

6. Which of the following is NOT a file attribute?

- i. File Extension iii. Created Date
ii. File Permissions iv. File content

7. Which of the following port CAN NOT be used to connect to a display device?

- i. eSATA ii. VGA iii. DVI iv. HDMI

8. The cable in figure 1 is known as?

- i. PS/2 Port
ii. Micro USB Port
iii. Optical Audio Port
iv. RJ45 Port

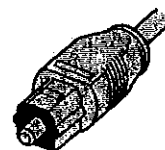


Figure 1

9. What is the simplest solution for a software problem in a computer?

- i. Restart the computer iii. Close the application and re-open it
ii. Run a virus scan iv. Clean up the disk

10. What is the **initial (first) step** when *fixing a hardware issue*?
- Check the power cable
 - Disconnect the power supply from the wall socket.
 - Check whether the UPS is connected properly.
 - Unplug the USB cables from the PC.
11. Which of the following tool is **NOT** belongs to a *Word Processing Software*?
- Formula Function
 - Tables
 - Spelling & Grammar
 - Shapes
12. Consider the following paragraph in *Figure 2*.

(Source - <https://en.wikipedia.org/wiki/Butterfly>)

Butterflies are insects in the macrolepidopteran clade Rhopalocera from the order Lepidoptera, which also includes moths. Adult butterflies have large, often brightly coloured wings, and conspicuous, fluttering flight. The group comprises the large superfamily Papilionoidea, which contains at least one former group, the skippers (formerly the superfamily "Hesperioidea"), and the most recent analyses suggest it also contains the moth-butterflies (formerly the superfamily "Hedyloidea"). Butterfly fossils date to the Paleocene, about 56 million years ago.

Figure 2

What is the **alignment** of the above *paragraph text*?

- Left Aligned
 - Right Aligned
 - Center Aligned
 - Justify
13. In a *Word Processing Software*, the following **button** (in *Figure 3*) is used for,
- Add a table
 - Justify the text
 - Change the line spacing
 - Change the word size



Figure 3

14. To **format a single word** of a *Word document*, **first**, you need to,
- Click on the first word and drag the mouse pointer to the last word.
 - Press both Ctrl + A on the keyboard together.
 - Triple-click on the paragraph.
 - Double click on the word.
15. The below feature (in *Figure 4*) in a Word Processing Software is known as,
- Merging cells in a table
 - Inserting a Word Art
 - Adding a page border
 - Inserting a textbox



Figure 4

16. Which of the following is **NOT** considered as a *Control Structure*?
- Repetition
 - Selection
 - Recreation
 - Sequence

17. Which of the following is an example of a **Selection Control Structure**?

- Entering marks and display whether the student is pass or fail.
- Display a message 10 times.
- Adding two numbers.
- Finding the price of 5 pens by inserting a price of a pen.

18. Which of the following is an example for a **Sequence Control Structure**?

- Comparing two scores and displaying the highest.
- Marking the attendance of 40 students.
- Multiply two numbers.
- Going to the playground according to the weather condition.

19. The following flowchart (in Figure 5) is an example for

- Selection Control Structure
- Sequence Control Structure
- Repetition Control Structure
- Recreation Control Structure

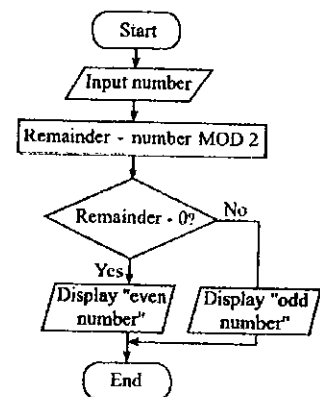


Figure 5

20. Which device below **CAN NOT** be considered as a *mobile device*?

- Smart Watch
- Smart TV
- Smart Sunglasses
- Laptop

21. Below Truth Table (in Table 01) belongs to?

- AND Gate
- OR Gate
- NOT Gate
- AND+OR Gate

Input 1	Input 2	Result
OFF	OFF	OFF
OFF	ON	OFF
ON	OFF	OFF
ON	ON	ON

Table 1

22. Select the **INCORRECT** Statement below regarding *Logic Gates*?

- In an AND Gate, when one input is 0, the output is always 0.
- In an AND Gate, when one input is 1, the output is always 1.
- In an OR Gate, when one input is 1, the output is always 1.
- In an OR Gate, when one input is 0, the output will be either 0 or 1.

23. In the below logic diagram (in figure 6), what should be A, B and C inputs to get the output as 1?

- i. A – 0, B – 0, C – 1
- ii. A – 1, B – 1, C – 1
- iii. A – 1, B – 1, C – 0
- iv. A – 0, B – 0, C – 0

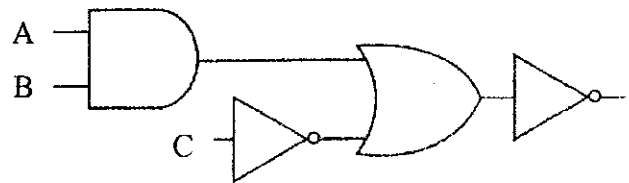


Figure 6

24. In the below logic diagram (in figure 7), what should be X and Y inputs to get the output as 1?

- i. X – 0, Y – 0
- ii. X – 0, Y – 1
- iii. X – 1, Y – 0
- iv. X – 1, Y – 1

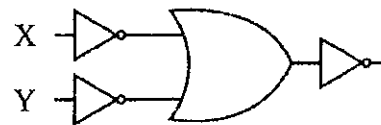


Figure 7

25. What is the maximum number of inputs a NOT Gate can have?

- i. 1
- ii. 2
- iii. 3
- iv. Many inputs

26. Which of the following is NOT an example for an Internet Search Engine?

- i. Ask.com
- ii. Google.com
- iii. Yahoo.com
- iv. Gmail.com

27. What does the Bookmark/Favourite option in an Internet Browser do?

- i. Save recently used web addresses.
- ii. Allows to go back to the previous/next page
- iii. Save a webpage to access later.
- iv. Adds a link to go to another webpage.

28. Which of the following is NOT considerable when developing a Website?

- i. The goal of the website.
- ii. The web browsing software.
- iii. How the user navigates the website.
- iv. Use of images.

29. Which of the following CAN NOT be used to create web pages using HTML?

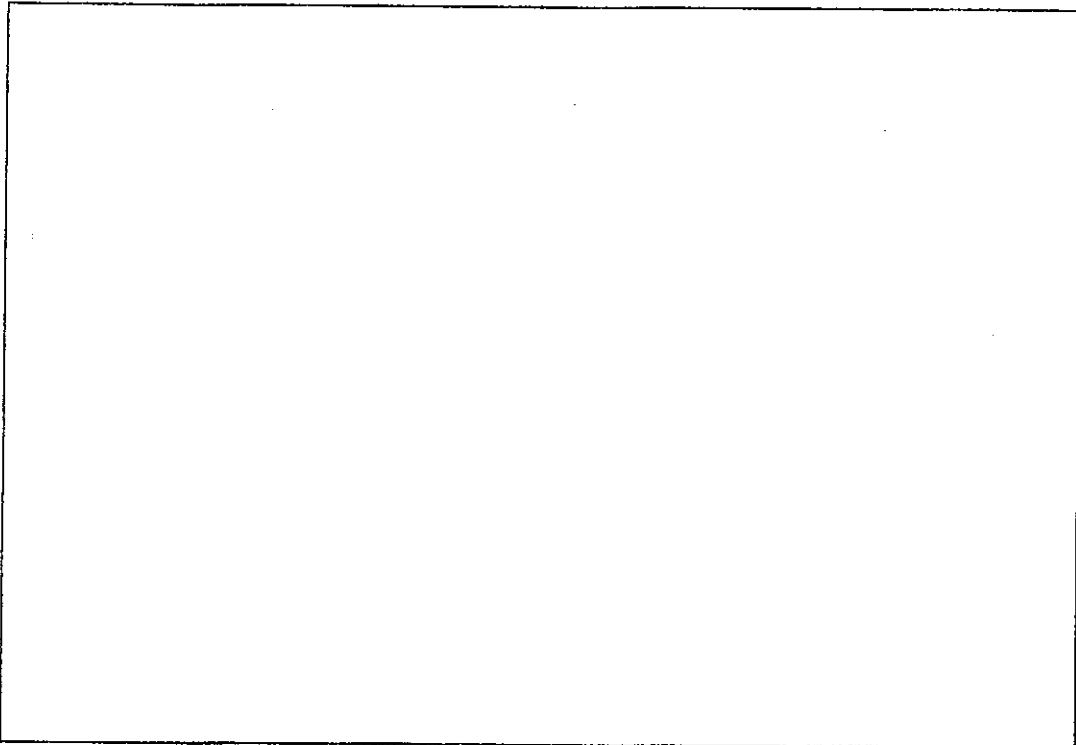
- i. Multimedia Logic
- ii. Wordpress
- iii. Notepad
- iv. Microsoft Visual Studio

30. Which tag pairs is used to add a list with bullets on an HTML page?

- i. <i> </i>
- ii.
- iii.
- iv.

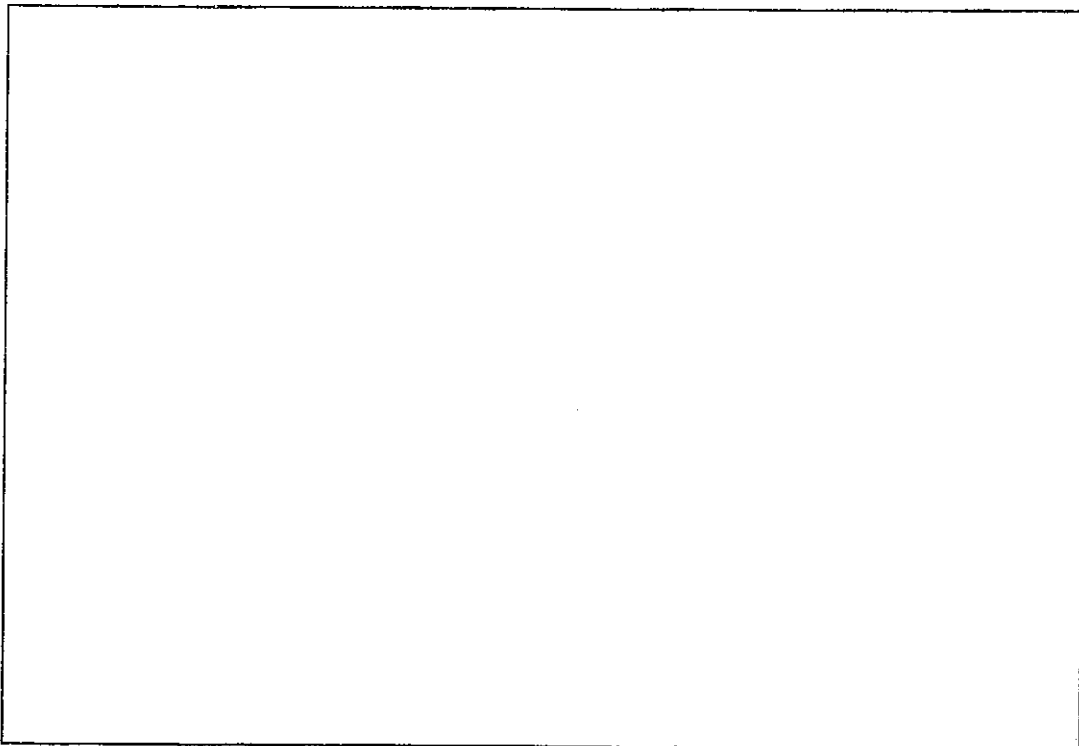
Q2. Convert 204_{10} to a *Binary number*. (Show your work).

(05 Marks)



Q3. Convert 10110_2 to a *Decimal number* (Show your work).

(05 Marks)




Q4. State whether the following conditions are **TRUE** or **FALSE** (2 x 5 = 10 Marks)

Statement	True / False
Data are fed to the memory of the computer as 1's and 0's	
To search files by its type, <i>File Extension</i> of a file can be used when searching.	
A <i>Display Port</i> provides a Higher Performance when compared to VGA and DVI ports.	
The <i>Only Solution</i> for Application software problems is to restart the computer.	
A computer program is converted to an algorithm when developing a computer program	

Q5. Consider the following HTML page. Write the **most suitable** HTML tags in the relevant boxes. (Only the correct tag is sufficient. No need to write attributes.) (1 x 10 = 10 Marks)

7 Wonderful Benefits of : X
Secure | https://food.ndtv.com/food-drinks/benefits-of-banana-how-

Wonderful Benefits of Banana



Adding a banana to your daily diet has an array of benefits in your body.

Bananas helps

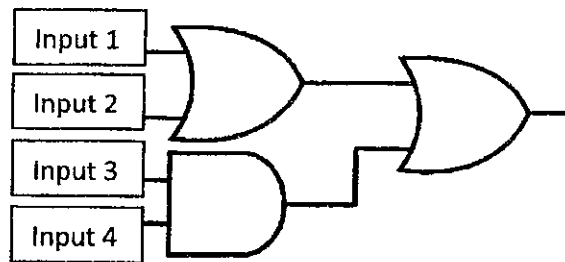
1. loss of weight
2. keep your bowels healthy
3. provide nutrients that regulate heart rhythm
4. have vitamin compounds for eye health.

Bananas provide a variety of vitamins and minerals:

- Vitamin B6 - 0.5 mg.
- Manganese - 0.3 mg.
- Vitamin C - 9 mg.
- Potassium - 450 mg.
- Dietary Fibre - 3g.
- Protein - 1 g.
- Magnesium - 34 mg.

[More about bananas](#)

Q6. Draw the Truth Table for the following Logic Diagram.



Input 1	Input 2	Input 3	Input 4	Output