**CP/W/Kengalla Maha Vidyalaya**
මප/වත්/ කෙන්ගල්ල මහා විද්‍යාලය

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පළමු වාර පරීක්ෂණය- **2019**          11 ශ්‍රේණිය

තොරතුරු හා සන්නිවේදන තාක්ෂණය  I, II
**Information & Communication Technology  I, II**

පැය තුනයි
**Three hours**

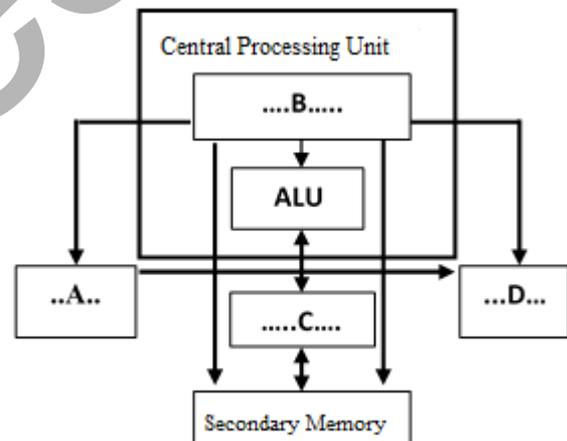1.  Hardware technology used in second generation is

1.  Vaccum tubes          2. Transistors      3. Integrated circuits        4. Micro Processor

2.  Select the **incorrect** statement:
    1. ROM is a non volatile memory with less capacity.
    2. Central Processing Unit is used to store data and information
    3. Memory is categorized into different levels according to access speed and distance to micro processor
    4. Cache memory is fastest, lesser in size and located close to micro processor'

3.  ABCD of the diagram represent respectively,
    1.   Input, control Unit,Primary Memory, Output

    2.   Input, Output, control Unit,Primary Memory,
    3.   Input, ,Primary Memory, Output, control Unit
    4.   Primary Memory, Input, control Unit, Output



4.  Devices that belongs to Secondary Memory are
    1.   Hard Disk, CDROM, ROM, RAM
    2.   RAM, ROM, Cache Memory, CD
    3.   Ram, Hard Disk, SD Card, Pen Drive
    4.   Bluray Disk, Hard Disk, DVD, Pen Drive

5. Select the **incorrect** statement regarding Data Transmission

    1. Satelite transmit data via micro waves
    2. Infrared is a transmission media which transmit data about 36000km away'
    3. Radio Technology is a wireless media. It transmits data to far away places via electro magnetic waves.
    4. Wifi is a wirless media for LAN. It transmit data to electronic devices

6. A student borrowed 50 rupees and paid it back in 2 instalemnts A, B. A and B is.
   1. A = $100010_2$ and B = $1100_2$          2. A = $100111_2$ and B = $1010_2$

   3. A = $100011_2$ and B = $1111_2$          4. A = $100001_2$ and B = $1110_2$

7. Decimal value of $111001_2$ is,
   1. $44_{10}$              2. $57_{10}$              3. $64_{10}$              4. $72_{10}$

8. Binary value of $536_8$ is,
   1. $101011110_2$          2. $011110101_2$          3. $010111100_2$          4. $101011100$

9.  What is ASCII stand for?
    1.  American Standard Code for International Information
    2.  American Standard Code for Information Interchange
    2.  American Statistical Commission for International Information
    3.  American Statistical Code for Information Interchange

10. Rusiru get 60 rupees from his father and 50 rupees from his mother. What is the total amount he get in binary?a
    1. 1011011          2. 1101100          3. 1101110          4. 1001101

11. The total amount Rusiru get in question number 10 in octal is
    1. $176_8$              2. $132_8$              3. $142_8$              4. $156_8$

12. Rusiru bought 8 GB Pen Drive. The capacity of it equals to,
    1. $2^{33}$ Byte          2. $2^{36}$ Byte          3. $2^{20}$ KB          4. all are in incorrect.

13.  $5D_{16}$ is not equal to,
    1. $93_{10}$              2. $135_8$              3. $01011101_2$              4. $176_8$

14.  10001001 binary number in hexadecimal,
    1. $9F_{16}$              2. $8F_{16}$              3. $BC_{16}$              4. $89_{16}$

15.  How many bits need to represent one character in Unicode?
    1. 2                    2. 7                    3. 8                    4. 16
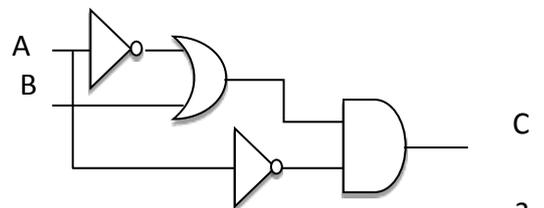
16. Consider the following logical expressions.
    P = (A>B) OR (C>D)      Q = (A< B) AND (C>D)         R= NOT (A< B)
    If A,B,C and D is 40,30,20 and 10 respectively, What is  the output of P,Q and R respectively?

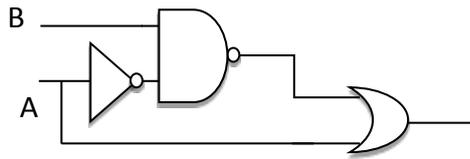    1. TRUE, TRUE, FALSE                                2. TRUE, FALSE, TRUE
    3.TRUE, TRUE, FALSE                                 4. TRUE, TRUE, TRUE

17.  What are A and B When C = 1 of the following logical circuit

    1. Always A should be 0 and B should be 1          A
    2. Always A should be 1 and B should be 0          B
    3. Always A should be 0 and B should be 0
    4. Always A should be 1 and B should be 1                                                    C
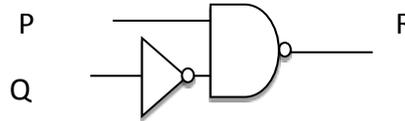
18. Output of following circuit is



1. NOT ((NOT (B) AND A)) OR B
2. NOT ((NOT (A AND B)) OR A
3. NOT ((NOT (B) OR A)) AND B
4. NOT ((NOT (B) OR A)) AND A

19. What is ABCD in the truth table respectively according to the given logic circuit?

| P | Q | R |
|---|---|---|
| 0 | 0 | A |
| 0 | 1 | B |
| 1 | 0 | C |
| 1 | 1 | D |



1. 1101       2. 0010       3. 1010       4. 1111

20. Select a Utility Software

1. Windows      2. Defragmentation      3. Visicalc      4. DOS

21. Computer management, task coordination, and sharing resources are done by"
   1. Operating System      2. Software
   3. Graphical User Interface      4. Utility Software

22 Speed of Central Processing Unit (clock speed) is measured by.
   1) MB      2) GB      3) Kps      4) GHz

23. The Safest and easiest data traveler is
   1 . CD      (2). DVD      (3. Pen drive      4). Hard Disk

24. The Least capacity storage device is ,
   .1CD      (2 DVD      (3 Pen drive      4) Floppy Disk

25. Consider the following statements regarding an operating system
   A. Managing the hardware of the computer
   B. Providing user interface
   C. Protect the computer from viruses
What is the correct statement?
   1. Only A      2. Only B      3. Only C      4. Only A and B

26. Select the correct answer regarding Data Base Management System.

   1. Query is used to find number of records in the table.
   2. Form is used to store data
   3. There should be only one table in a data base
   4. Reports can be created using data of one table

27. Select the correct statement regarding composite key of a data base table.

       1. Data type of composite key should be text.

       2. Data type of composite key should be number.

       3. Composite key is a unique column of a table.

       4. Composite key is two or more unique columns of a table

To answer questions 28 and 29 use the following database table of computer devices.

| Item_No | Item_Name | Quantity | Unit_Price |
|---------|-----------|----------|------------|
| P001 | Mouse | 5 | 500.00 |
| P002 | Flash Drive | 20 | 2000.00 |
| P003 | DVD Drive | 5 | 2500.00 |

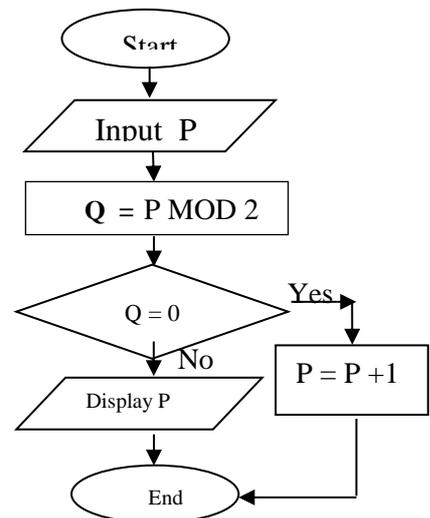28. What is the term used refer all the data of one computer device in the table?

   1. Query          2. Report          3.Field          4. Record

29. How many fields are there in this table?

    1. 4          2. 5          3. 6          4. 7

30. What is the control structure of this flowchart?
   1. Sequence          2. Simple selection
   3. Repetion          4. Sequence and simple selection

31. According to the flowchart"
  1. Display whether the input number is odd or even.
  2. Display only even numbers
  3. Display only odd numbers
  4. Divide the input number by 2 and add one and display
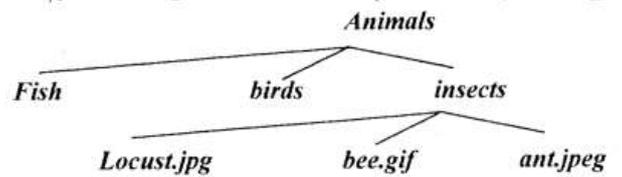


32. 17 MOD 3 is equal to
   (1) 6          (2) 2          (3) True          (4) False

33. Select the correct statement regarding compiler and interpreter.
    1. The interpreter converts all the statements into machine language codes before executing the programme
    2. The compiler converts a statement by statement into machine language codes during executing the programme.
    3. The compiler needs the interpreter to execute the programme.
    4. The interpretler converts a statement by statement into machine language codes during executing the programme.

34. Consider the following tree diagram of Kamal's Hard disk. In the diagram Animals, insects, and Locust.jpg respectively,

  1) Root directory, a folder and a sub directory.
  2) A Sub directory, Root directory and a folder
  3) Root directory, A sub directory and a folder
  4) A folder, Root directory and a sub directory



35. Select incorrect statements regarding digital signals
  A. Digital signals represents by 0 and 1.
  B. Sea Waves are examples for digital signals
  C. When people talks digital signals are generated.

  1. only A          2. A and B          3.B and C          4.A and C

36. Satellite centers are positioned in the sky above ..........................
  1. 25000km          2. 2500km          3. 35000km          4. 36000km

37. What is the fastest data transmission media?
  1) Radio signals          2). Co-axial cable          3) Twisted pair          4) Fibre optic
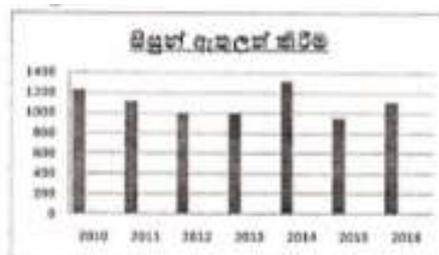
38. Which one is not belongs to Guided media
  1) Radio signals          2). Co-axial cable          3) Twisted pair          4) Fibre optic

39. Consider the following spread sheet part and the graph which shows the number of students admit to Mihindu Maha Vidyalaya each year.



What is the correct cell range for x and y axis of the graph?
  1. X = A1:A8 and Y = B2:B8          2. X = A2:A8 and Y =B1:B8
  3. X = A1:A8 and Y = B1:B8          4. X = A2:A8 and Y =B2:B8

40. Name the type of graph shows in question 39.

  1. pie chart          2. bar chart          3. column chart          4. line chart