

බස්නාහිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව மேல் மாகாணக் கல்வித் திணைக்களம் Department of Education - Western Province	වර්ෂ අවසාන ඇගයීම ஆண்டிறுதி மதிப்பீடு - 2016 Year End Evaluation	ඉගෙනීමේ පද්ධතිය Learning Management System Kandana College
ශ්‍රේණිය } 10 தரம் } 10 Grade } 10	විෂය } Information and Communication பாடம் } Technology I, II Subject }	පත්‍ර } I வினாத்தாள் } I Paper }
		කාලය } 03 Hours காலம் } 03 Hours Time }

Important :

10.11.2016

- Answer all questions.
- In each of question 1 to 40, pick one of the alternatives 1), 2), 3), 4) which is correct or most appropriate and mark your response.

1. Which of the following contains the features of third generation?
  - 1) Transistor, Assembly language, Low electricity usage
  - 2) Vacuum tube, Machine language, High heat generation.
  - 3) Processor, Graphical Interface, Portability.
  - 4) Integrated circuits, Use of high level languages for coding, Low electricity consumption.
  
2. Which of the following does not explain the attributes of quality of information?
  - 1) It is an example of completeness of an information, when obtaining data covering all districts to calculate population for the year of 2016.
  - 2) It is an example of accuracy of an information when obtaining all marks of all students to calculate average marks of grade 10 A students.
  - 3) It is an example of timeliness when obtaining data of wind speed, humidity, temperature to predict weather condition for next Monday.
  - 4) It is the accuracy of information when a patient with high blood pressure forwards his latest report to a Doctor.
  
3. Which one of the following benefits can be received by a student who registered in a Learning Management System?
  - 1) Ability to supervise activities and display results.
  - 2) Use of an automatic bell system to separate periods.
  - 3) Ability to upload answers to school assignments as soon as they are completed at home.
  - 4) Ability to obtain data for school development society and to school community through e-mail.
  
4. Which of the following represents the correct order when the devices are arranged in descending order of data access speeds?
  - 1) Magnetic Tape, CD, Hard Disk, Register Memory
  - 2) Register, Flash Memory, Cache Memory, DVD
  - 3) Register Memory, Cache Memory, Flash Memory, DVD
  - 4) DVD, Flash Memory, Cache Memory, Register Memory

5. Which of the following is **true** about Network topology?
- 1) Ring topology uses lowest amount of wires.
  - 2) All computers are connected to a main single wire in ring topology.
  - 3) Total computer network collapses when one commuter breaks down in Bus topology.
  - 4) The Disadvantage of tree topology is that the total computer network is connected to one of the main computer

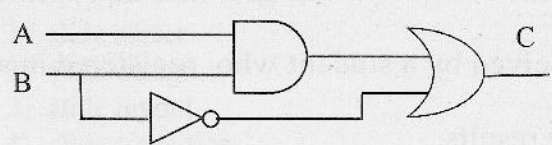
6. Which of the following feature/s is/are relevant to data transmission of fiber optic cables ?

- A. Velocity of light  
 B. Voltage  
 C. Full internal reflection

- 1) A and B only.    2) B and C only.    3) A and C only.    4) C and D only.
7. Which of the following is equivalent to decimal value of 53?
- 1)  $101101_{16}$
  - 2)  $110101_2$
  - 3)  $101011_2$
  - 4)  $10101_2$
8. Which of the following is not equal to the binary value of  $101011_2$ ?
- 1)  $2B_{16}$
  - 2)  $53_8$
  - 3)  $13_{10}$
  - 4) None of the above
9. Which of the following s are the equivalent values of 190 and 277 respectively?
- 1)  $BE_{16}$  and  $425_8$
  - 2)  $425_8$  and  $BE_{16}$
  - 3)  $EB_{16}$  and  $425_8$
  - 4)  $BE_{16}$  and  $524_8$
10. What is the lowest number of bits that is necessary represent hexadecimal  $F35_{16}$ ?
- 1) 1
  - 2) 3
  - 3) 9
  - 4) 12

11. Which of the following is equivalent to 2 Giga Byte?
- 1)  $2^{10}$  Megabytes
  - 2)  $2^{20}$  Kilobytes
  - 3)  $2^{10}$  Byte
  - 4)  $2^{34}$  Bit

12. The truth table of the logic circuit is incomplete, which of the following matches the out put C in the truth table?



A	B	C
0	0	
0	1	
1	0	
1	1	

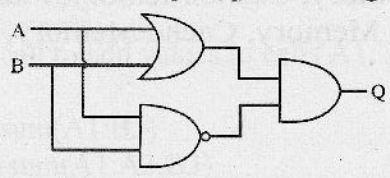
- 1) 1,1,0,1                      2) 1,0,1,1                      3) 1,1,0,0                      4) 1,0,1,0

13. Sri Lanka cricket board has selected the player A and B as the opening pair. They are going to decide one of the players out of C and D to play as the third player. Which of the following Boolean expression represents the above scenario?

- 1) A AND B OR (C OR D)
- 2) A OR B AND (C OR D)
- 3) A AND B AND (C OR D)
- 4) A AND B AND (C AND D)

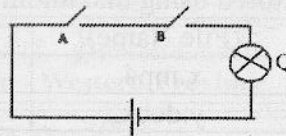
14. Which of the following Boolean expression represents the output(q) of the logic circuit ?

- 1)  $(A + B) \cdot (\overline{A \cdot B})$
- 2)  $(A + B) + (\overline{A \cdot B})$
- 3)  $(A \cdot B) \cdot (\overline{A + B})$
- 4)  $(A \cdot B) + (\overline{A + B})$



15. Which of the following logic circuit is represented by the circuit?

- 1) NAND
- 2) OR
- 3) NOT
- 4) AND



16. What are the most significant (MSB) and least significant (LSB) bits of 0.07864?

- 1) 4 and 0
- 2) 4 and 7
- 3) 0 and 4
- 4) 7 and 4

17. Which of the followings will be the result if you hit (Ctrl+ backspace) keys while typing a document in a word processing software?

- 1) It deletes the letter to the left of cursor
- 2) It deletes the letter to the right of cursor
- 3) It deletes the word to the left of cursor
- 4) It deletes the word to the right of cursor

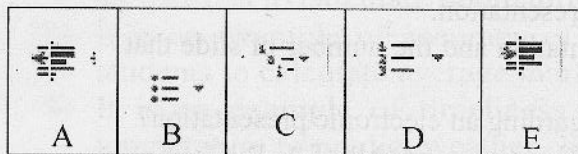
18. Consider the following facilities available in a Word Processing package.

A. Landscape B. Layout C. Portrait

Which of the above are used to set paper orientation?

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

19. Following tools have been used to prepare the list 1. Which of those icons, given below, have been used in order to prepare the list?



1. RAM
    - 1.1. SRAM
    - 1.2. DRAM
  2. ROM
    - 2.1. PROM
    - 2.2. EPROM
    - 2.3. EEPROM

- 1) A
- 2) B
- 3) C
- 4) D

20. Which of the following is **not** an advantage of cloud computing?

- 1) Receipt of web space to save your documents.
- 2) Necessity to use a computer space to store.
- 3) Possibility to access and edit the document in any computer connected to Internet.
- 4) It is not necessary to install word processing package in a computer.

21. These tools in a word processing package, are used -----

- 1) to get a number list and a bulleted list.
- 2) to increase space between words.
- 3) to increase space between lines.
- 4) to increase indentation.



22. Logical segmentation of a new hard disk, according to user's choice is called.....**1**.....,This hard disk cannot be used at once. Each segment should be .....**2**.....before sorting data.

Which of the following is best suitable to fill in the blanks **1** and **2** respectively?

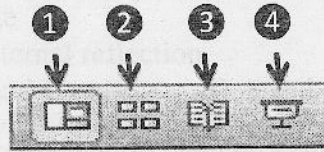
- 1) Partitioning, Formatting.
- 2) Formatting, Partitioning.
- 3) Partitioning, Defragmentation.
- 4) Defragmentation, Formatting.

23. 2GB-space out of 8 GB remains free in a certain USB flash drive. Which of the following file/s can be stored using maximum free space?

(File Name)	(Size)
x.mp4	1 GB
y.docx	524 KB
z.gif	1500 MB

- 1) x.mp4 and z.gif only.      2) y.docx and z.gif only.  
 3) x.mp4 only.                      4) all of above.

Consider the following figure to answer question 24 and 25.



24. Which number of the icon ,in the above picture is used to change the slide order in a electronic presentation?

- 1) No ① icon.    2) No ② icon.    3) No ③ icon.    4) No ④ icon.

25. Which number of the icon ,in the above picture is used to go to full-view of a slide an electronic presentation?

- 1) No ① icon .    2) No ② icon.    3) No ③ icon.    4) No ④ icon.

26. Consider the following statements regarding electronic presentation software.

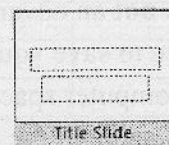
- A. Slide transition is used to change from one slide to another
- B. Styles can be set in its master page of an e-presentation.
- C. Status bar displays no of slides in the presentation and the number of slide that is selected at the moment.

Which of the above statement(s) is / are true regarding an electronic presentation?

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

27. Which of the following fasicilty can be used to change slide structure from A to B?

- 1) slide sorter
- 2) slide design
- 3) slide layout
- 4) slide transition



A



B

28. Which of the following key combination is used to insert a new slide to a presentation?

- 1) ctrl + M      2) ctrl + N      3) alt + M      4) alt+ N

Consider the following spread sheet segment to answer questions 29 to 32.

	A	B	C	D
1	6	5	2	
2	7	3	8	
3	4	11	10	
4				

29. Which of the following function is used in D1 cell to add values in cells A1, A2, A3 and B3?

- 1) =sum(A1:A3)                      2)=sum(A1:B3)  
 3) = sum(A1:A3+B3)                4) =sum(A1:A3,B3)

30. Consider the following functions to calculate the highest value in cell D4.
- A. =max(A1:C3)  
 B. =max(A1:A3,B1:B3,C1:C3)  
 C. =max(A1,A2,A3,B1,B2,B3,C1,C2,C3)
- Which of the above functions are correct?  
 1) A and B only.    2) A and C only.    3) B and C only    4) All of A, B and C
31. Which of the following function is used to calculate the minimum value in cell C4 in the cell range of A1:C3?  
 1) =count(A1:C3)                      2) =max(A1:C3)  
 3) =min(A1:C3)                        4) =rank(A1:C3)
32. Which of the following key combination is used to move to the extrem end of right hand cell of the given spread sheet segment?  
 1) Alt + End                      2) End                      3) Ctrl + End                      4) Shift + End
33. Which of the following value is displayed,if the formula =2 \*3+5^2 is entered in a cell of a spread sheet?  
 1) 16                      2) 31                      3) 20                      4) 21

The following data base tables in an OPD of a hospital that stores data of registered patients, Doctors and channel information. Consider tables to answer question no 34 to 39.

Patient Table

Patient ID	P_Name	Address	Phone
P001	Kasuni	Nugegoda	0112855060
P002	Vishwa	Panadura	0382565982
P003	Thimathi	Homagama	0342222449
P004	Kavindu	Kottawa	0112893258

Doctor Table

Doctor_ID	Doctor Name	Phone_No	Specialty
D001	Dr. N. Fernando	0112855063	Arthritis
D002	Dr. Amal Silva	0112458978	Diabetes
D003	Dr. C. Pathirana	0342248963	Cardiologist
D004	Dr. A Anuradha	0382558964	Dentist

Channel Table

Patient_ID	Doctor_ID	Add_Date	Is_paid
P002	D003	2016/08/23	Yes
P001	D001	2016/09/07	Yes
P004	D002	2016/08/25	No
P002	D002	2016/08/23	Yes
P003	D004	2016/09/20	Yes

34. How many records are there in the channel table?  
 1) 4.                      2) 3.                      3) 5.                      4) 6.

35. Which of the following is an example of a foreign key in this Data base?  
 1) Patient\_ID of Channel table                      2) Doctor\_ID of Doctor table  
 3) Patient\_ID of Patient table                      3) Phone\_No of Doctor table
36. Which of the following data type is suitable for the field - Is\_paid in the channel table?  
 1) Text    2) Yes / No    3) Number    4) Memo
37. Which of the following doctors has the patient, Vishwa channeled?  
 1) Dr. C. Pathirana and Dr. A Anuradha                      2) Dr. N. Fernando and Dr. Amal Silva  
 3) Dr. A Anuradha and Dr. Amal Silva                      4) Dr. C.Pathirana and Dr.Amal Silva
38. What is the specialty of the doctor that the patient Thimathi has channeled?  
 1) Cardiologist    2) Dentist    3) Arthritis    4) Diabetes
39. If more than one field is required to uniquely identify a record, which of the following term is referred to such a key.  
 1) foreign key    2) special primary key  
 3) connective key    4) composite key
40. "Under utilization of information technology has deviated the present student population on wrong channels." stated by a scholastic to a newspaper. Which of the following statements do you think that confirms or supports the above statement?
- A. Getting to un-suitable friends groups in online social networks.  
 B. Difficulty to concentrate on education due to obsession to technology.  
 C. Displaying of deformed pictures and videos that ruins personal good name.  
 D. Inclination to reading e-newspapers and e-books.
- 1) A and C only                      2) A, B and C only                      3) B,C and D only                      4) all A,B,C, D

Doctor ID	Doctor Name	Phone No	Specialty
D001	Dr. N. Fernando	012825083	Arthritis
D002	Dr. Amal Silva	012428978	Diabetes
D003	Dr. C. Pathirana	0-42242903	Cardiologist
D004	Dr. A Anuradha	038252304	Dentist

Patient ID	Doctor ID	Add Date	Is paid
P001	D001	2016/09/07	Yes
P002	D002	2016/09/25	No
P003	D003	2016/08/23	Yes
P004	D004	2016/09/20	Yes