

7. Which of the following is a typical function of an operating system?

- (1) Providing graphical facilities for users
- (2) Protecting computer from viruses
- (3) Providing an user interface
- (4) Providing web browsing facilities for users

8. In computer system, RAM stands for.

- (1) Read Access Memory
- (2) Random Area Memory
- (3) Random Access Memory
- (4) Read Area Memory

9. Which of the following is/are non-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) C only
- (4) A,B,C all

10. 1/4 MB =

- (1) 2^{20} bytes
- (2) 2^{18} bytes
- (3) 2^{16} bytes
- (4) 2^8 bytes

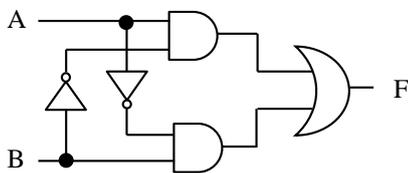
11. Which of the following is not an attribute of valuable information?

- (1) Big size
- (2) Reliability
- (3) Timeliness
- (4) Accuracy

12. Which of the following acts as both input and output device?

- (1) Lightpen
- (2) Mouse
- (3) Keyboard
- (4) Touchscreen

13. Which of the following Boolean expression is equivalent to the output F in the following logic circuit?



- (1) $A + B$
- (2) $A.B$
- (3) $\bar{A}B$
- (4) $A\bar{B} + \bar{A}B$

14. Which of the following storage media is in ascending order of capacities from left to right?

- (1) CD, DVD, Hard disk
- (2) DVD, CD, Hard disk
- (3) DVD, Hard disk, CD
- (4) Hard disk, CD, DVD

15. Which of the following is optical storage?

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

16. Consider the following statements regarding word processing software.

- A – It allows to insert an image into a document
- B – It allows to use a hyperlink into a document
- C – It allows to edit text already typed

Which of the above is/are correct?

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

17. Which of the following icon that is used to do a superscript in a word processing document?

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

18. In a word processing software, two icons  that are used respectively.

- (1) Decreasing or increasing font size of a paragraph
- (2) Decreasing or increasing indent of a paragraph
- (3) Decreasing or increasing line spacing of a paragraph
- (4) None of the above

19. Consider the followings.

- A – Capacity of hard disk
- B – Microprocessor's speed
- C – Capacity of memory



The factors should be considered when you purchase a computer.

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

20. Consider the following truth table.

A	B	Output
0	0	1
0	1	0
1	0	0
1	1	0

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

- (1) AND (2) NOT (3) NOR (4) OR

21. Which of the following is used for booting up computer system?

- (1) Hardware (2) Software (3) Firmware (4) Liveware

22. The portion in which column and row are intersecting in spreadsheet software is called.

- (1) Cell (2) Box (3) Function (4) Formula

23. Which of the following feature is not commonly available in an electronic presentation software?

- (1) Inserting a hyperlink (2) Inserting an image
- (3) Making a data analysis (4) Inserting an audio clip

24. Which of the following I/O port can be used to connect computer monitor to computer system?

- (1) PS2 (2) USB (3) VGA (4) RJ-45

A school canteen uses spreadsheet to keep its income. Using the following information, answer questions 25 and 26.

	A	B	C	D	E	F	G
1	Category	Monday	Tuesday	Wednesday	Total sales	Selling price	Income
2	Crisps	12	13	12	37	20.00	740.00
3	Chocolate	21	24	23	68	15.00	1020.00
4	Can of Cola	12	15	16	43	50.00	2150.00
5							

25. Which of the following formula that can be used to obtain total number of 'Crisps' packets sold in three days in cell E2?

- (1) = SUM (B2:D2) (2) = SUM (B2*D2) (3) = (B2+D2) (4) SUM = (B2:D2)

26. Which of the following formula that can be used to obtain income in cell G2 by selling 'Crisps' packets, multiplying total sales by selling price?

- (1) = E2 x F2 (2) = E2/F2 (3) = SUM (E2+F2) (4) = E2*F2

27. In an electronic presentation software, while key P 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

28. In a word processing software, the icon  is used to.

- (1) Increase font size of a selected text
(2) Change the font to capitalize
(3) Bold the word next to the cursor
(4) Do letter to superscript

29. A field or set of fields that can be used to identify records uniquely in a database table is called.....

- (1) Primary key (2) Foreign key
(3) Alternate key (4) Composite key

30. Which of the following lists contain graphic file formats only?

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

31. Which of the following feature cannot be included in a word processing document?

- (1) Image
- (2) Hyperlink
- (3) Header
- (4) e-mail message

32. Which of the following is considered as vector graphics file?

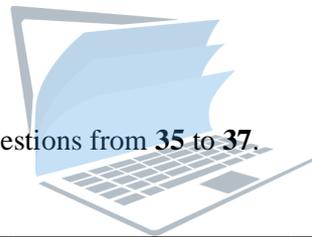
- (1) .bmp
- (2) .jpg
- (3) .png
- (4) .ai

33. Which of the following is a valid cell address in a spreadsheet software?

- (1) 2A
- (2) A2\$
- (3) \$A2\$
- (4) \$A\$2

34. Which of the following can be used to identify type of a file in a computer?

- (1) File extension
- (2) File name
- (3) Folder with file
- (4) Subfolder with file



Using the following table, answer the questions from 35 to 37.

BookNo	Title	Author	Publisher	Price
1001	Relational Database	A.Ramakrishnan	Oxford	5600
1002	Python for Beginners	Robert Jack	Pearson	6500
1003	Internet of Things	R.B.Sharma	O'reilly	7000

35. The number of records and fields are respectively.

- (1) 5, 3
- (2) 3, 5
- (3) 4, 5
- (4) 5, 4

36. Which of the following can be used as a primary key in this table?

- (1) BookNo
- (2) Title
- (3) Author
- (4) Price

37. Which of the following data type can be used for Price field?

- (1) Number
- (2) Currency
- (3) Date
- (4) Text

38. If ASCII value of character 'a' is 97, what is the ASCII value of 'd' in binary form?

- (1) 1111100₂
- (2) 1100000₂
- (3) 1101100₂
- (4) 1100100₂

39. While number of pixels of an image increases, its.

- (1) Resolution decreases
- (2) Image quality decreases
- (3) Increases storage capacity
- (4) All of the above

40. Consider the following statements.

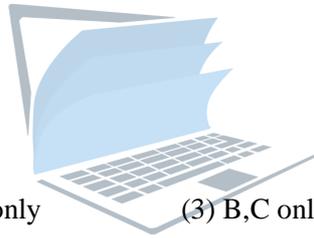
A – A folder may contain subfolders

B – A folder may contain files

C – A folder may contain folders

Which of the above is/are correct?

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



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- (d) Write down major technologies used in first four generation computers.
 (e) Computers can be classified into three categories according to technologies used. What are they?

2.

(a) Write down whether the following statements are true or false.

- (i) Random access memory (RAM) is a non-volatile memory.
- (ii) Microprocessor speed in computer is measured in GHz.
- (iii) Data backup is better to protect computer from virus.
- (iv) Laser technology is used to write / read data on compact disc (CD).
- (v) While uninterruptible power supply (UPS) is used for web server computer which is providing important information to the public, it is not essential for newly used laptop computer.

(b) Match column A and B suitably.

	A		B
(i)	Hard disk	(a)	Calculations
(ii)	Plotter	(b)	Optical medium
(iii)	CD	(c)	Computer monitor
(iv)	CPU	(d)	Read / Write head
(v)	CRT	(e)	Output device

(c) Select appropriate words from the following list to fill the blank for the statements regarding an electronic presentation software given below.

[Key P, Key W, Key B, Key N, slide show, new slide, new presentation]

- (i) Using of Ctrl+N key combination, can be used.
- (ii) Using of Ctrl+M key combination, can be used.
- (iii) By pressing F5 key, may be viewed in a presentation.
- (iv) In a slide show mode, by pressing key, screen may be viewed in a white colour.
- (v) In a slide show mode, by pressing key, next slide can be moved.

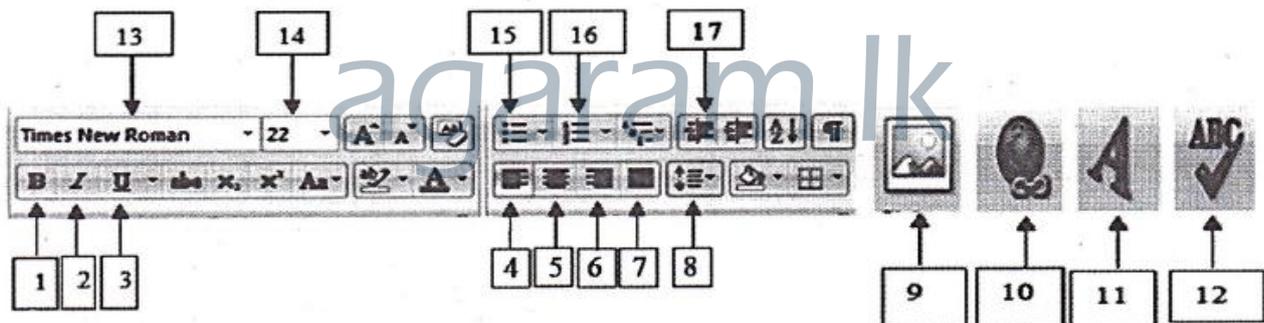
3. Consider the following paragraph formatted using word processing software.

The philosopher and jurist Jeremy Bentham (1748-1832) was born at Houndsditch, London, on 15th February 1748. He proved to be something of a child prodigy: while still a toddler he was discovered sitting at his father's desk reading a multi-volume history of England, and he began to study Latin at the age of three. At twelve, he was sent to *Queen's College Oxford*, his father, a prosperous attorney, having decided that Jeremy would follow him into the law, and feeling quite sure that his brilliant son would one day be Lord Chancellor of England.

Leading authority of the day, Sir William Blackstone (1723-80). Instead of practicing the law, he decided to write about it, and he spent his life criticizing the existing law and suggesting ways for its improvement. His father's death in 1792 left him financially independent, and for nearly forty years he lived quietly in Westminster, producing between ten and twenty sheets of manuscript a day, even when he was in his eighties. Bentham, however, soon became disillusioned with the law, especially after hearing the lectures of the



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 ①
- (ii) Format the text as shown by label ②
- (iii) Increase line spaces among lines in the paragraph as shown by label ③
- (iv) Change the font as shown by label ④
- (v) Indent second paragraph forward
- (vi) Align paragraph as show by label ⑤
- (vii) Which feature do you use to insert an image in 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]

4.

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

It consists of information relating to poor persons in each province in Sri Lanka (Data source: www.statistics.gov.lk year of 2016).

	A	B
1	Province	Poor persons
2	Western	101342
3	Central	142044
4	Southern	74769
5	Eastern	118061
6	Northern	83834
7	North-western	64638
8	North-central	42191
9	Uva	83885
10	Sabaragamuwa	133149
11	TOTAL	
12	AVERAGE	
13	MAXIMUM	

- (i) Write down a formula using SUM function to find out total number of poor persons in cell B11.
- (ii) Write down a formula using an appropriate function to find out average number of poor persons in cell B12.
- (iii) Write down a formula using an appropriate function to find out maximum number of poor persons provincially in cell B11.
- (iv) Write down any two types of chart that can be used to display number of poor persons provincially and names of provinces in a chart.

(b) With regard to spreadsheet software, write down whether the following statements are true or false.

- (i) Active cell moves to the A1 cell while presses Ctrl + Home key combination.
- (ii) Active cell moves to the first column of the same row while presses Home key.
- (iii) Active cell moves to the last column while presses Ctrl + → key combination.

5. Consider the following three data tables.

Book

BookNo	Title	Author
B1	Database	William
B2	Java	Roshan
B3	HTML	Krishnan

Member

MemberNo	MemberName
M1	Komathy
M2	Ratnake
M3	Hakeem

Borrowing

BookNo	MemberNo	DateBorrowed
B1	M1	1/3/2018
B1	M2	3/2/2018
B2	M1	4/3/2018
B3	M2	1/1/2018
B3	M3	5/4/2018

- (i) Write down primary keys with corresponding tables given above.
- (ii) Write down foreign keys with corresponding tables given above.
- (iii) Write down data types suitable for the following fields.
- BookNo
 - Title
 - Author
 - DateBorrowed
 - MemberNo
 - MemberName
