25 multiple choice questions with 5 options. **All** questions should be answered. Each question carries **04** marks. **Total 100 marks.**

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1. If all the inputs are on, the output will be off. This is called
   - i. AND   ii. NOR   iii. OR   iv. NAND   v. XOR

2. Which device is capable of recognizing a pre-specified mark made with a dark pencil or ink?
   - i. OMR   ii. CRT   iii. MICR   iv. OCR   v. CRR

3. In HTML this tag is used to separate the lines
   - i. < P >   ii. < BR >   iii. < I >   iv. < SUP >   v. <STRONG>

4. Which cables are used to transfer maximum rate of data.
   - i. Coaxial cables   ii. Fiber optics   iii. Twisted pair
   - iv. Power cables   v. Shielded Twisted pair

5. Consider the following statements regarding Computer Language Translation :
   - A -   An interpreter is a computer language translator, and it converts the source code of each line into machine language.
   - B -   The compiler transforms a binary code into source bite code.
   - C -   The computer language translator named 'assembler' is used for transformation of 'mnemonic codes'.

   Which of the above is true?
   - i. A only   ii. B only   iii. C only
   - iv. A and B only   v. A and C only

6. What is the output of the python programme given in the box?
   - i. 4   ii. 6   iii. 10   iv. 14   v. 40

   ```
   j=10
   y=4
   if j<y or j!=4:
       j-=y
       print j
   else:
       y*=j
       Print y
   ```
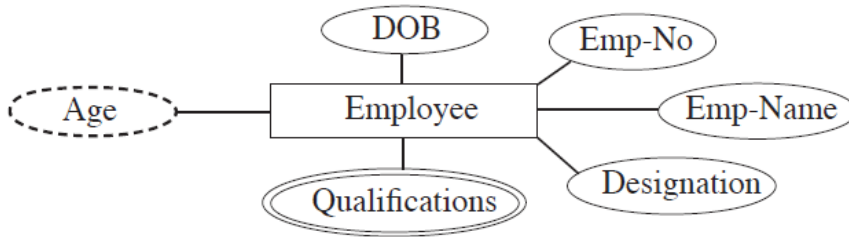
7. Consider the following HTML code :
   ```
   <dl>
       <dt>Sinharaja</dt>
       <dd>Wet zone forest</dd>
       <dt>Ritigala</dt>
       <dd>Dry zone forest</dd>
   </dl>
   ```
   In which form is this code displayed in a Web browser?

Sinharaja
Wet zone forest
Ritigala
   Dry zone forest
	Sinharaja Wet zone forest
	Ritigala Dry zone forest
		Sinharaja
		   Wet zone forest
		Ritigala
		   Dry zone forest

(1)	(2)	(3)

Sinharaja
   Wet zone forest
   Ritigala
   Dry zone forest
	Sinharaja
	   Wet zone forest
	Ritigala
	   Dry zone forest

(4)	(5)

8. A part of an ER diagram is shown in the diagram below:

Which of the following characteristic is **not** represented by the chart?
   i. Entity   ii. Attribute   iii. Multi Attribute   iv. Relationship   v. Derived Attribute

9. A virus that is distinguished as a useful computer program is called …………
   i a spam   ii a hacker   iii a Trojan horse   iv. a worm   v. a malware

10. A database that contains tables linked by common fields is called a ………………..
    i. flat file database   ii. distributed database   iii. common database
    iv. centralized database   v. relational database

11. What is the MSB and LSB of the binary equivalent of 127?
    i. l and l   ii. l and O   iii. O and l   iv. O and O   v. none of the above

12. Construction of modern computers is based on the concept of
    i. Evolutionary Computing   ii. Intelligent and Emotional Computing
    iii. Artificial intelligence   iv. Von Neumann
    v. Multi- Agent Software

13. Which of the following is based for the classification of computers as analog or digital?
    i. Speed of the computer
    ii. Physical size of the computer
    iii. Technology used
    iv. Amount of data that can be obtained
    v. Amount of information that can be obtained

14. The following are considered important on computer specifications.
    A - Speeed
    B - Capacity
    C - Number of pins in the processor
    Which of them is/are **not** considerable when purchasing a computer?
    i. A only   ii. B only   iii. C only   iv. A and B only   v. B and C only

15. Which of the following network topologies is most appropriate for a local area network(LAN) that connects the computers by using only one hub ?
    i. Bus   ii. Mesh   iii. Tree   iv. Star   v. Ring

16. Consider the following steps of the Data Processing Life Cycle:
    A - Data input   B - Data collection   C - Data processing   D - Data storing and output

    The correct sequence of the above is
    i. A, B, C and D   ii. B, A, C and D   iii. B, D, A and C
    iv. C, B, D and A   v. D, A, B and C

17. Consider the following statements about the computer operating systems :
    A - Manages computer resources
    B - Builds up an interface between the user and the computer
    C - Protects the computer from the viruses
    Which of the above is true?
        i. A only   ii. B only   iii. C only   iv. A and B only   v. B and C only

18. Which of the following is an open source software?
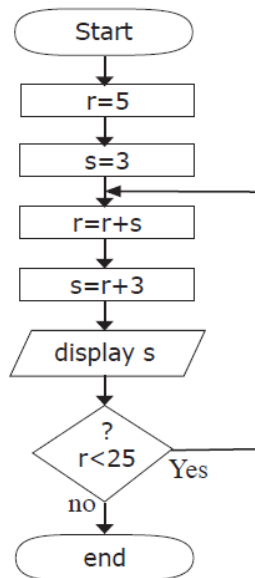   i. Ubuntu   ii. Lotus 123   iii. DOS   iv Photoshop   v. Auto CAD

19. Consider the following statements about CSS:
    A - Controls the action of a web page
    B - Acronym for Cascade Style Sheet
    C - Acronym for Computer System Software
    D - Used to set the appearence of the web page
    Which of the above statements are most accurate?
        i. A,D   ii. B,D   iii. A,B,C   iv. A,B,D   v. B,C,D

- Question number **20** and **21** are based on the following flowchart:

20. The outputs of the flowchart are
        i. 8, 11, 14, 17, 20, 23 and 26
        ii. 8, 11, 14, 17, 20 and 23
        iii. 8, 11, 22, 44 and 88
        iv. 11, 22, 44 and 88
        v. 11, 22 and 44

21. What is the correct pseudo code relevant to the logic of the flowchart

(1)	(2)	(3)	(4)	(5)

begin
r=5
s=3
  r=r+s
  s=r+3
  display s
if r<25
end
	begin
	r=5
	s=3
	if r<25
	  r=r+s
	  s=r+3
	  display s
	else
	end
		begin
		r=5
		s=3
		while r<25
		  r=r+s
		  s=r+3
		  display s
		end while
		end
			begin
			r=5
			s=3
			do
			  r=r+s
			  s=r+3
			  display s
			while r<25
			end
				begin
				r=5
				s=3
				do
				  r=r+3
				  s=r+3
				  display s
				while r<25
				end

22. The output of the following HTML code will be: <B><I> Sri Lanka </I></B>

      i. **Sri Lanka**   ii. *Sri Lanka*   iii. **Sri Lanka**   iv. ***Sri Lanka***   v. *Sri Lanka*

23. What is an enhanced version of a 'Hub'?

      i. Modem   ii. ISP   iii. Switch   iv. Network Interface Card   v. Router

24. What is the standard measure used to specify the speed of the internet connection?

      i. Bytes per second   ii. Bits per minute   iii. Bits per second

      iv. Kilo bytes per second   v. Kilo bits per second

25. A Company that provides access service to the Internet is called a

      i. Server   ii. Client   iii. ISP   iv. Teleshop   v. Internet Supplier