RURAL DEVELOPMENT DEPARTMENT GOVERNMENT OF MIZORAM

Examination for recruitment under MGNREGA

Computer Assistant

COMPUTER SUBJECT

SECTION-I: OBJECTIVE TYPE

- I. Choose the correct answer. $(30 \times 1 \text{ mark} = 30 \text{ marks})$
 - 1. Which of the following is the smallest unit of data in computer?
 - a. Bit
 - b. Byte
 - c. Pixel
 - d. Megabyte
 - 2. Which programming language is often referred to as the "mother of all languages"?
 - a. Java
 - b. C
 - c. COBOL
 - d. Fortran
 - 3. What does HTML stand for?
 - a. Hyper Text Markup Language
 - b. High-level Text Management Language
 - c. Hyper Transfer Markup Language
 - d. Hyperlinking and Text Markup Language
 - 4. Which data structure follows the Last-In-First-Out (LIFO) principle?
 - a. Queue
 - b. Stack
 - c. Linked List
 - d. Tree
 - 5. Which algorithm is used to find the shortest path in a graph?
 - a. Binary Search
 - b. Depth-First Search
 - c. Breadth-First Search
 - d. Dijkstra's Algorithm
 - 6. What does SQL stand for?
 - a. Simple Query Language
 - b. Structured Query Language
 - c. System Query Language
 - d. Standard Query Logic

7. Which	ch programming i	model empha	sizes the use of t	functions and	d procedure	s?
	. Procedural Pro		*			
	. Functional Pro	_	· ·			
С	. Object-Oriente	d Programm	ing			
d d	. Event-Driven I	rogramming				
8. Which	ch component of	the compute	r is responsible :	for performi	ng arithmet	ic and
	al operations?	,*				
_	. Central Proces	sing Unit (CP	U)			
b	. Random Acces	s Memory (R	AM)			
С	. Hard Disk Driv	re (HDD)				
d	l. Graphics Proce	essing Unit (C	PU)			
9. Which	ch protocol is use	d for sending	emails over the	internet?		
a	. HTTP					
b	o. FTP					
C	. SMTP	N/*				
d	l. TCP					
10. Whi	ch of the followin	g is not a dat	a type in Python?	?	i i	
а	. int					
b	o. float					
,	. string					
d	l. decimal					
11. Wha	it is the main pur	oose of an op	erating system?			
а	i. To manage sof	tware and ha	irdware resource	es		26
	o. To run applica					
C	. To edit docum	ents				
	l. To design grap					
12. Whi	ch type of networ	k topology ir	ivolves connectii	ng all devices	s in a circle?	
a	ı. Star					
t	o. Bus					
C	c. Ring					
	d. Mesh					
13. Whi	ch sorting algorit	hm has a wo	rst time complex	ity of O(n log	g n)?	
ä	a. Bubble Sort					
	o. Insertion Sort					
	c. Quick Sort	•				
	d. Merge Sort					
	ch programmin	g language	is commonly	used for	developing	web
	lications?					
ć	a. C				,	
1	o. Python					
	c. Ruby					
(d. JavaScript					. 4
			a ig			r

- 15. What does URL stand for?
 - a. Universal Reference Language
 - b. Uniform Resource Locator
 - c. Unified Routing Language
 - d. User Registration Link
- 16. Which data structure represents a hierarchical relationship between elements?
 - a. Array
 - b. Linked List
 - c. Tree
 - d. Stack
- 17. Which protocol is used to secure communication over the internet?
 - a. HTTP
 - b. FTP
 - c. SSL/TLS
 - d. SMTP
- 18. Which programming language is known for its simplicity and readability?
 - a. Assembly Language
 - b. COBOL
 - c. Java
 - d. Python
- 19. What does CPU cache help improve?
 - a. Disk storage
 - b. RAM capacity
 - c. Processor speed
 - d. Network connectivity
- 20. Which database model uses tables to store data with rows and columns?
 - a. Hierarchical
 - b. Network
 - c. Relational
 - d. Object-Oriented
- 21. What does IP stand for in the context of computer networks?
 - a. Internet Provider
 - b. Internet Protocol
 - c. Information Protocol
 - d. Internet Port
- 22. Which type of malware is designed to spread from one computer to another?
 - a. Spyware
 - b. Trojan
 - c. Virus
 - d. Worm
- 23. Which data structure provides constant-time access to elements?
 - a. Linear data structures
 - b. Tree
 - c. Hash Table
 - d. All of the above

	24. What is the purpose of a firewall in computer networks?	
	a. To block unwanted emails	
	b. To prevent data loss	
	c. To secure the network from unauthorized access	
	d. To optimize network speed	
	25. What is the primary function of an assembler in the context of progr	amming?
	a. To execute code	Ç
	b. To translate high-level code into machine code	
	c. To manage memory allocation	
	d. To design user interfaces	
	26. Which ribbon tab is used to change the font formatting in Microsoft	Word?
	a. Insert	
	b. Review	
	c. Home	
	d. View	
	27. Which option in Microsoft Word can be used to create a soft copy	of the current
	document?	or the eartene
	a. New	
	b. Save As	
	c. Print	
	d. Close	
	28. Which keyboard shortcut is used to insert a new worksheet t	n an evicting
	workbook in Microsoft Excel?	o an existing
	a. Ctrl + F1	
	b. Ctrl + N	
	c. Shift + F11	
	d. Ctrl + Alt + N	
	29. What does a cell reference like "\$A\$1" indicate in Microsoft Excel?	
	a. The cell is locked for editing	
	b. The cell contains a formula	
	c. The cell is empty	
	d. The cell reference is absolute	1.11-
	30. Which feature in Microsoft Excel is used to protect a worksheet	or workbook
	from unauthorized changes?	
	a. Protect Sheet	
	b. Hide Cells	
	c. AutoFill	
	d. Merge Cells	
***	White "True" or "Folce" against the statement provided (20 v 1 mg	rk = 30
II.	Write "True" or "False" against the statement provided. (30 x 1 magnets)	11K - 30
	marks)	
	1. A byte is equal to 8 bits.	
	2. Python is a statically typed programming language.	

6

*

3. 3	SQL is used for creating attractive web layouts.
4. ′	The "Ctrl + Z" shortcut is used to redo the last action in most applications.
5. <i>i</i>	A linked list consists of nodes where each node points to the previous node.
	An API (Application Programming Interface) allows different software applications to communicate with each other.
7.	PHP is a Client-side scripting language embedded in HTML in its simplest form.
8.	An array is a data structure that can store elements of different data types.
9.	HTML is a programming language used to create dynamic web applications.
10.	Ethernet is a protocol used for wireless communication.
11.	A gigabyte is equivalent to 1024 megabytes.
	RAID stands for Redundant Array of Inexpensive Disks and is used for data backup.
13.	IPv6 is an older version of the Internet Protocol used for networking.
14.	A web browser is an example of application software.
	Cloud computing refers to storing and accessing data and programs over portable harddisks.
16.	Turing completeness is a property that indicates a programming language can simulate a Turing machine.
17.	Multitasking refers to the ability of an operating system to execute multiple tasks simultaneously.
18.	DNS stands for Domain Name Service and is responsible for translating domain names to IP addresses.
19.	A distributed denial-of-service (DDoS) attack aims to make a network or service unavailable by overwhelming it with traffic.

20.	The BIOS (Basic Input/Output System) is responsible for booting the computer and initializing hardware components.				
21.	FLOOR function is used to round a number down to the nearest integer in Microsoft Excel.				
22.	COUNTA(A1:A10) in Microsoft Excel counts the number of both empty and non-empty cells in the range A1 to A10.				
23.	The "Text Highlight Color" button on the Home tab in Microsoft Word allows you to change the font color.				
24.	The "Review" tab in Microsoft Word allow you to check spelling and grammar.				
25.	Page Layout option is used to change the orientation of a page to landscape in Microsoft Word.				
26.	Press Shift + Enter keys to change the line spacing in a paragraph in Microsoft Word.				
27.	The function SUM(A1:A5) do in Microsoft Excel calculates the sum of values in cells A1 to A5.				
28.	MAXIMIZE function is used to find the largest value in a range of cells in Microsoft Excel.				
29.	A PivotTable in Microsoft Excel is used to summarize and analyze data.				
30.	Press Ctrl + = to align text to the center of a page in Microsoft Word.				

•

III. Match the Terms in Column A with related Terms from Column B by filling the corresponding alphabet in the space provided ($10 \times 1 \text{ mark} = 10 \text{ marks}$)

		Write the		
	Column A	matching alphabet	Column B	
		from Column B		
1	HTTP status code		A	Manages operations of
	404			computer and hardware
2	CPU cache		В	time delay between sending
				and receiving data in a
				network
3	Cascading Style		C	Uses two values only (true
	Sheet		-	and false)
4	Hash function		D	Small, fast storage area used
		7.		to store frequently accessed
				data
5	Kernel		E	Broken or missing link
6	Boolean logic		F	Used for encryption
7	Latency	*	G	Describing the presentation
				of a document written in a
			534.5	markup language
8	Recursive function	.7	Н	Decentralized digital ledger
				technology
9	XOR gate		I	Calls itself within its own
				definition
10	Blockchain		J	gives 1 as output when the
	×			number of 1 in the inputs is
				odd