## RURAL DEVELOPMENT DEPARTMENT GOVERNMENT OF MIZORAM

#### **Examination for recruitment under MGNREGA**

#### MIS Nodal Officer

#### **COMPUTER SUBJECT**

**SECTION-I: OBJECTIVE TYPE** 

Choose the correct answer. (30 x 1 mark = 30 marks)

I.

	~ . ~?				
1.	What	is Von Neumann architecture?			
	a.	Single Instruction, Single Data (SISD)			
	b.				
	c.	Multiple Instruction, Multiple Data (MIMD)			
	d.	Multiple Instruction, Single Data (MISD)			
2.		is an example of Hardware.			
		MS Word			
	b.	Operating System			
	c.				
	d.	Google Chrome			
3.	A CPU	has 12 registers and uses 6 addressing modes. RAM is 64K x 32. What is			
	the maximum size of the op-code field if the instruction has a register operand				
	and a	memory address operand?			
	a.	8 bits			
	b.	9 bits			
	c.	10 bits			
	d.	12 bits			
4.		is not the type of shape that can be inserted using the "Shapes'			
••	featur	e in MS Word.			
	a.	Rectangles			
		Block arrows			
		Equation shapes			
		SmartArt			
5	Which	of the following acts as a temporary storage location to hold and			
J.		nediate result in mathematical and logical calculations?			
		RAM			
	7.00	Accumulator			
		Program Counter			
	a.	Memory Address Register			

6. In cor	nputer programming, a	is a value that can	change, depending
on co	nditions or on information passed	to the program.	
a.	Variable		
b.	Constant		. *
c.	Data		
d.	Syntax		
	,		
7. The n	nnemonic op-code to save data to n	nemory is	,
a.	SAVE	,	
b.	LOAD		
c.	STORE		
d.	PUT		
	· · · · · · · · · · · · · · · · · · ·		
8. A CD-	ROM is an example of		
	Cache Memory		
	Random Access Memory		
c.	Read Only Memory		
d.	All the above		
9. Whic	h of the following is not a bitwise o	perator?	
a.			
b.	^ ^		
c.	•		
d.	<<		
10. The	section of the CPU that selects, i	nterprets and sees t	to the execution of
progr	am instructions is	*	
a.	Register Unit		
b.	Control Unit		
c.	ALU		
d.	Memory		
11. Whic	h function will you use to enter cur	rent time in an Excel	worksheet cell?
a.	( )		
b.	time()		
С.			
d.	All the above		8
12. A chi	p having 150 gates will be classifie	d as	
a.	0 ,		e e
b.	9 ,		
c.	9 ,		
d.	Very Large Scale Integration (VL	SI)	

<ul> <li>a. Incremental growth</li> <li>b. Reliability</li> <li>c. Resource sharing</li> <li>d. None of the above</li> </ul> 14. Dynamic RAM is slower than Static RAM because
b. Reliability c. Resource sharing d. None of the above  14. Dynamic RAM is slower than Static RAM because a. DRAM uses flip-flops b. DRAM is bigger c. DRAM requires refreshing d. DRAM is costlier  15. In MS Word 'Insert Hyperlink' feature, is not an available option to select the link to. a. Existing file or web page b. Place in this document c. GPS location
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c. GPS location
d. Email address
2 3
16. The operation in SQL is used to display the content of a table.
a. SELECT
b. SYNTAX
c. SHOW
d. VIEW
17. The fetch and execution cycles are interleaved with the help of
a. Modification in processor architecture
b. Clock
c. Control unit
d. Program Counter
18. To increase the speed of memory access in pipelining, we make use of
a. Special memory-locations
b. Special purpose registers
c. Cache
d. Buffers
d. Dulleto
19. To return the remainder after a number is divided by a divisor in EXCEL we us
the function.
a. ROUND()
b. MOD()
c. DIV()
d. REMAIN()

	query in an SQL SELECT statement:
	can only be used with two tables.
b.	can always be duplicated by a join.  has a distinct form that cannot be duplicated by a join.
	cannot have its results sorted using ORDER BY.
21. What	part of 192.168.10.51 is the Network ID, assuming a default subnet mask?
	192
C.	
d.	168.10
22. To sa	ve an existing MS Word file in a PDF format, we should use
	Save
	Save As
	Save and Send
d.	Advance
	ng a website on how many simultaneous visits it can optimally handle is
called	
	Load Testing Black Box Testing
	Regression Testing
u.	Regression resumg
24. How i	is an array initialized in C language?
a.	int $a[3] = \{1, 2, 3\};$
b.	int $a = \{1, 2, 3\};$
С.	int a[] = new int[3];
d.	int $a(3) = [1, 2, 3];$
25 What	is the maximum number of swaps that can be performed in the Selection
	algorithm?
	n-1
b.	
c.	1
d.	n/2
26. What	is the full form of BIOS?

a. Between input-output systemb. Binary input-output systemc. Basic input/output system

d. All of the above

	27. Where are the errors and bugs recorded?
	a. Scheduler
	b. Task Manager
	c. Running process
	d. Logfile
	28. When a process is scheduled to run after some execution, it is in state.
	a. New
	b. Run
	c. Ready
	d. Terminate
	29. Arrange the memories in increasing order of their access time (fastest access
	first) by CPU for an instruction or data.
	a. Disk, RAM, Cache
	b. RAM, Disk, Cache
	c. Cache, Disk, RAM
	d. Cache, RAM, Disk
	30. Memory fragmentation results in
	a. Stack overflow
	b. Page Fault
	c. Better utilization of memory
	d. Poor utilization of memory
I.	Write "True" or "False" against the statement provided. (30 x 1 mark = 30 marks)
	1. In a peer-to-peer network, any client computer can also be a server.
	Total Transfer of the Control of the
	2. The standard protocol of the Internet is Ethernet.
	3. The Open System Interconnection (OSI) model has 5 layers.
	4. A HUB is a networking device.
	5. TCP/IP stands for Transmit and Control Protocol/Internet Protocol.
	or ray in section of
	6. The first computer is called an abacus.
	7. On a touch-screen laptop, the laptop screen is both an input and an output
	device.
	8. During a write operation if the required block is not present in the cache then
	Write Delay occurs.

9.	Cache memory is an extremely fast memory type that acts as RAM and the CPU.	a buffer between
		3
10	. A Printer is an example of an Input device.	
11	. ASCII stands for American Scientific code for information interc	hange.
12	. A collection of 8 byes is called a Bit.	
13	3. The strategy of allowing processes that are logically runnable suspended is called preemptive scheduling.	to be temporarily
14	. Stack Data Structure is a FIFO (First In First Out)	
15	5. When a process or thread enters a waiting state because a resource is held by another waiting process, which in turn is we resource held by another waiting process, it is called Deadlock.	aiting for another
16	<ol><li>When a computer is first turned on or restarted, a special type called Boot Loader is executed.</li></ol>	of absolute loader
1	7. Microsoft Outlook is an example of a DBMS.	
18	3. Stack data structure is mainly used for implementing the recur	sive algorithm.
1'	9. When transaction is taken for processing directly and is valid before being taken up for further processing it is called Batch F	dated immediately Processing.
2	0. In Microsoft Excel, you can only insert one column, row or cell	at a time.
2	1. The total number of rows in a worksheet in Excel is 1,04,8576.	
2	<ol><li>Long text within one cell can be made to display in multiple li using Wrap Text.</li></ol>	nes within the cell
2	3. In Excel, the cell reference for cell range of A2 to M12 is A2-M1	2.
2	4. In Excel, it is possible to change the direction of text in a cell us	sing Orientation.

25. The MS Excel feature to keep a portion of the sheet visible while the rest of the sheet can be scrolled is <i>Side by Side</i> .
26. In Microsoft Word, the shortcut key for Page Break is Ctrl+Break.
27. Drop Cap is used to create a large capital letter at the beginning of a paragraph in MS Word.
28. To copy the format of a text and apply it to another text in the MS Word document we can use Copy Paste feature.
29. Insertions, deletions and formatting changes in MS Word can be tracked using 'Track Changes' feature.
30. Macros can be created using scripts or recording.
Moteh the Torms in Column A with related Terms from Column B by filling the

# III. Match the Terms in Column A with related Terms from Column B by filling the corresponding alphabet in the space provided (5 x 1 mark = 5 marks)

	Column A	Write the matching alphabet from Column B		Column B
1	Buffer		A	Shows steps as boxes of
		×		different types which are connected with arrows
2	Pixel		В	Requires Input/Output
_,	4			module to access it
3	Flowchart		С	Smallest visual element on a
	*			video monitor
4	IPG, BMP, PNG		D	Physical memory storage
				used to store data
				temporarily
5	Secondary Memory		Е	Graphical file extensions

### SECTION-II: DESCRIPTIVE AND LONG ANSWERS

IV. Explain the NAND Logic Gate with Diagram and Truth Table. (3 marks)

Explain the Physical layer, Data Link layer and Network layer of the OSI Model. (3 marks)

V. Consider the table named *items\_table* below and answer the questions. (2 x 1 mark = 2 marks)

Item Code	Name	Category Price	Unit Price	Sales
0001	Pencil	Stationery	5.00	8.00
0002	Pen	Stationery	8.00	10.00
0003	NoteBook	Stationery	10.00	20.00
0004	Chappal	Footwear	50.00	70.00
0005	Apple	Fruits	60.00	90.00
0006	Orange	Fruits	40.00	60.00
0007	Pen	Stationery	10.00	12.00

- 1. Write an SQL query to display the *Item\_Code* and *Name* of items whose *Unit\_Price* is less than or equal to 10.
- 2. Write an SQL query to delete all items whose *Name* is 'Pen' from *items\_table*.