Sivali Central College



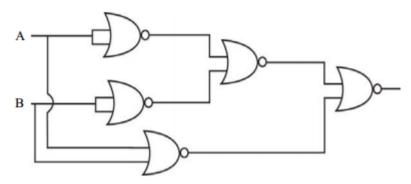
Information and Communication Technology – Grade 13

MCQ Paper I Duration – 02 hrs

Answer all the questions

- 1. Which of the following statement is incorrect about ENIAC?
- I. It was the first electronic computer used for general purposes
- II. It used a large number of vacuum tubes and a few transistors
- III. It stands for Electronic Numerical Integrator and Calculator.
- IV. It was invented by J. Presper Eckert and John Mauchly
- V. It used a large number of vacuum tubes
- 2. Which of the following factor make issues when using Binary Coded Decimal in data representation?
- I. Space efficiencyIV. Hardware algorithmsII. Data encodingV. Usage in digital circuits
- III. Decoding
- 3. The stored program concept was presented by;
- I. John Von NeumannIV. Charles BabbageII. Ada LovelaceV. Blaise Pascal
- III. John Eckert
- 4. Which of the following represents the bitwise OR operation of the two binary numbers 10101010 and 01010101?
- I. 00000000 II. 11110000 III. 00001111 IV. 11000011 V. 11111111
- 5. What is the binary equivalent to the decimal 45.375_{10} ?
 - I. 101100.101₂ II. 101101.001₂ III. 101101.111₂ IV. 101101.011₂ V. 101101.101₂
- 6. An advantage of managing data and information using manual methods is;
- I. High resource usage
- II. Having long processing methods
- III. Flexibility in customer requirements
- IV. Above I and II
- V. Above I and III
- 7.is deciding the prices of goods and services by bidding competitively with sellers in the process of selling and buying goods and services.
 - I. Group purchasing II. e-Marketplace III. Ordinary auction
 - IV. Digital economy V. Reverse auction
- 8. In system testing stage, the method of testing the software as a whole by an independent person or a team is,
 - I. Unit testing II. Integrated testing III. System testing
 - IV. Acceptance testing V. White box testing

9. Consider the following logic circuit implemented using universal gates.



Above circuit is equivalent to,

I. XOR Gate II. NOR Gate III. AND Gate

IV. NOT Gate V. NAND Gate

10. In an operating system, " maps virtual memory address into physical memory addresses."

I. Swapping II. MMU III. Process Control Block

IV. Job scheduler V. CPU scheduler 11. is not a data validity check

I. Type check III. Format check III. Double entry check

IV. Range check V. Look up check

12. Which of the following are the properties of a signal?

- I. Amplitude, Impulse, Frequency, Phase
- II. Wavelength, Clock time, Impulse, Amplitude
- III. Amplitude, Frequency, Phase, Wave length
- IV. Amplitude, Phase, Clock time, Wave length
- V. Amplitude, Impulse, Phase, Wave length
- 13. Economic feasibility of a system
- I. Involves with cost / benefit analysis
- II. Determines the technical resources required for the project.
- III. Evaluates hardware and software.
- IV. Estimates the time required for the completion of the project.
- V. Determines whether the organization's needs can be met by implementing the proposed system.
- 14. Which of the following statements describes a functional requirement of a digital camera?
- I. Should be light in weight.
- II. Shall be able to provide one year warranty for battery.
- III. Should provide a USB cable.
- IV. Shall be able to take a photo.
- V. Should have a memory card with sufficient capacity.
- 15. Which of the following system development models has an extremely long linear development process?

I. Prototyping model II. Waterfall model III. Spiral model IV. Agile model V. Rapid Application Development model

16. is used for analog signal to digital signal conversion.

Which of the following is most appropriate to fill the blank in the above statement?

- I. Amplitude Modulation (AM)
- II. Frequency Modulation (FM)
- III. Pulse Code Modulation (PCM).
- IV. Phase Modulation (PM).
- V. Time Division Modulation (TDM).
- 17. Which of the following is a correct MAC address?

I. 192.248.0.0.1

II. 192.258.16.1

III. 192.248.16.1

IV. 255.255.0.0

V. 03:A3:CC:99:C9:AB

18. There are 55 hosts connected to a particular sub network. What is the most appropriate sub net mask for this sub network?

I. 255.255.255.240

II. 255.255.240.0

III. 255.240.0.0

IV. 255.255.255.192

V. 255.255.255.0

19. What is the network address of the sub network where the IP address 145.65.89.45 belongs with sub net mask 255.255.240.0

I. 145.65.80.0

II. 145.65.89.0

III. 145.65.0.0

IV. 145.65.96.0

V. 145.65.16.0

20. What is the broadcast address of the sub network where the IP address 200.10.34.52 belongs with sub net mask 255.255.255.248

I. 200.10.34.255

II. 200.10.34.55

III. 200.10.255.255

IV. 200.10.34.7

V. 200.10.34.48

21. What is the first host IP address of the sub network where the IP address 198.65.80.30 belongs with sub net mask 255.255.255.192

I. 198.65.80.1

II. 198.65.80.65

III. 198.65.80.129

IV. 198.65.80.0

V. 198.65.0.1

22. What is the last host IP address of the sub network where the IP address 201.21.82.75 belongs with sub net mask 255.255.255.240

I. 201.21.82.254

II. 201.21.82.255

III. 201.21.82.65

IV. 201.21.82.78

V. 201.21.255.254

23. Two machines with the IP addresses 192.248.16.158 and 192.248.16.218 are connected to a local area network (LAN). Which of the following is a suitable subnet mask for this network?

I. 255.255.255.192

II. 255.255.255.248

III. 255.255.255.240

IV. 255.255.255.128

V. 255.255.255.224

24. A computer in a network is configured with the IP address 192.248.16.95 and the subnet mask 255.255.255.192. Which of the following IP addresses cannot be assigned to a computer in the same network?

I. 192.248.16.110

II. 192.248.16.65

III. 192.248.16.129

IV. 192.248.16.92

V. 192.248.16.120

25. What is an advantage of the virtual memory?

I. The ability of keeping opened the programs larger than the capacity of the

main memory

- II. The Operating system has the ability to do other task while doing one task
- III. The ability of using one central processing unit for many tasks
- IV. The ability of increasing the capacity of secondary storage
- V. The prevention of fragmentation of hard disk in saving date files
- 26. Consider the following statements about HTML.
- (A) HTML tags describe document content.
- (B) HTML documents contain HTML tags and plain text.
- (C) The browser displays the HTML tags.

Which of above is/are true?

I. B only III. A and B only III. A and C only

IV. B and C only V. All of the above

- 27. The correct HTML segment which can be used to limit the number of characters to 15 in the text box Nick Name in the Form of given picture.
- I. <input type="text" name="nickname" maximumlength="15">
- II. <input type="text" name=" nickname
 maxlength="15">
- III. <input type="text" name=" nickname length="15">
- IV. <input type="text" name=" nickname width="15">
- V. <input type="text" name=" nickname 'maxcharacter="15">



- 28. Which of the following statement is correct about multi core processors?
- I. There are two or more independent processing units (cores) in a computer.
- II. A processor that executes parts of various programs at the same time.
- III. Multiple instructions run in a single processor
- IV. Only a single instruction can be run in a multi-core processor
- V. The performance of a computer gets low by using a multi-core processor
- 29. Consider the following statements regarding the Open System Interconnection model.
- A. Transmitting data over a transmission medium is done in the transport layer.
- B. The network layer identifies the IP addresses of the devices connected to the transmission.
- C. Data transformation and coding takes place in the presentation layer.

Which of the above statement/statements is/are correct?

I. A only
II. A and B only
IV. B and C only
V. All A, B and C

- 30. Which of the following tasks uses multi software Agents?
- I. Part picking robot IV. Image analysis

II. Refinery Controller

- V. Medical diagnosis
- III. Interactive English tutor
- 31. Which of the following statement is incorrect?
 - I. Pure brick organizations are called as Brick and Mortar firms.
 - II. In a reverse auction, buyers compete to obtain a good or service by offering increasingly higher prices.
 - III. E-marketplace consists of frontend process and backend process.
 - IV. Facial and voice recognition come under Affective technology.
 - V. The digital economy is also sometimes called the Internet Economy.
- 32. What is the appropriate SQL statement for selecting all the data in the record with data starting with the letter "C" in the "FirstName" field in the student table?
- I. SELECT * FROM Student WHERE FirstName LIKE '%c'
- II. SELECT * FROM Student WHERE FirstName = 'c'
- III. SELECT * FROM Student WHERE FirstName = '%c%'
- IV. SELECT * FROM Student WHERE FirstName LIKE '%c%'
- V. SELECT * FROM Student WHERE FirstName LIKE 'c%'
- 33. Meaning of software piracy is
- I. Stealing of software at home.
- II. Coping software.
- III. Stealing of software from manufacturing company.
- IV. Coping from purchased software.
- V. Making of illegal copies of software on which the user has no copy right.
- 34. Consider the following statements.
 - A. Frequent refreshing take place in DRAM while SRAM has no such frequent refreshing.
 - B. Cache Memory belongs to the category of SRAM
 - C. Present day most of computers have SRAMs.

Which of the above statement/s is/are true?

I. A only II. B only III. C only

IV. A and B only V. B and C only

- 35. Autonomous, Problem Solving computational entities capable of effective operation in dynamic and open environments are defined as......
- I. Evolutionary computing II. Agent Technology III. Ubiquitous computing

IV. Von-Neumann concept V. Quantum computing

36. Study the following statements about the given data base table.

STUDENT INDEX_NO NAME DOB SEX

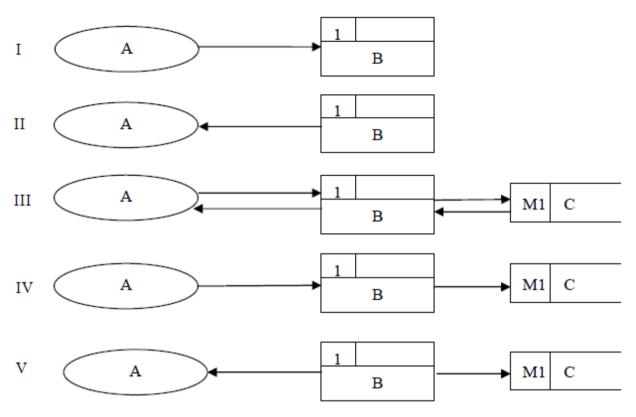
- A. Student is an entity.
- B. Index NO field can be used as primary key.
- C. NAME, DOB are two attributes of table.
- D. Collection of data in all attributes of a certain student is named as a record.

Which of the above statement/s is/are true?

I. A and B only II. B and C only III. C and D only

IV. A, B and C only V. All of the above

37. Which of the following data flow diagrams is correct with respect to the rules of data flow modeling?



- 38. Which of the following SQL commands is not available in the data definition language (DDL)?
 - I. CREATE

II. DROP

III. ALTER

- IV. UPDATE
- V. TRUNCATE
- 39. Consider the following HTML code.
 - ul>
 - Computer
 - ul>
 - Input Devices

 - key board
 - Scanner

Which of the following is the output generated by the above code?

- - Computer
 - Input Devices Key board

 - Scanner
- II.
- Computer
- Input Devices
- Key board
- Scanner

- - Computer 0
 - Input Devices
 - Key board
 - Scanner

IV.

- Computer
 - Input Devices
 - Key board
 - Scanner
- V.
 - Computer
 - Input Devices
 - Key board
 - Scanner

40. Consider the following HTML code for creating a table. Students Name Vithu Tharani Η Ι Name Students Vithu Students Vithu Name Tharani Tharani III IV Students Students Name V Name Students Name Vithu Vithu Tharani Tharani Vithu Tharani 41. Which of the following symbol is used to write comments in a PHP program? Ī. --II. <!- - comment --> III. // IV. * 42. Which of the following will be used to define an external CSS? k src = "abc.css" rel = "stylesheet" type = "text/css"> I. link href = "abc" rel = "stylesheet" type = "text/css> II. link href = "abc.css" type = "text/ css"> III. link href = "abc.css" rel = "stylesheet" type = "text/css"> IV. <href link = "abc.css" rel = "stylesheet" type = "text/css"> V. 43. Which of the following is a valid example for CSS Id selector? .myid{color:red;text-align:center;} I. II. #myid{color:red;text-align:center;} mvid{color:red;text-align:center;} III. IV. myid:{color:red;text-align:center;} V. myid;{color:red;test-align:center;} 44. What is the output of the following python program? s ="Hello World!" print (s[-5: -2]) III. Wo IV. llo V. ell I. Wor II. orl 45. Consider the following python codes. def fun(a): i, c=1, a[0]while i<len(a): if(a[i])>c: c=a[i]i=i+1return i print{fun([9,3,11,15,-1])}

Which of the following is the output of it?

I1	II. 3	III. 5	IV.8	V. 15	
items of n	"marks" data stru narks=[28,75,52,8 latacount=len(mar or i in range(datac for k in ran	ks)	•	at is used to ar	range data
		marks[i],marks[l	k]=marks[k],mar	ks[i]	
Which	of the following is	s the suitable stateme	ent to fill in the b	olank?	
IV. marks[47. Consider A=32.7 B={'Age C=(28,9) D={5,10	i] <marks[k]: 0,15,'sarath'}<="" 5,'kamal')="" e':21,'name':'perer="" following="" pyr="" r="" td="" the=""><td></td><td>s[k]:</td><td>marks[i]=marks C, and D respecti</td><td></td></marks[k]:>		s[k]:	marks[i]=marks C, and D respecti	
II. integer, III. float, d 48. What is	ole, list, dictionary dictionary, list, di lictionary, tuple, d the correct value of \$1 \times 4 \times 7	ctionary V.	. float, tuple, dic float, dictionary on statement?	•	
I. 7	II. 6	III. 3	IV.2	V. 0	
-	_	he data relevant to a		•	ng them to
I. Compact	ion II. Paging	III. Spooling	IV. Defragmer		Memory on
	the output when y 12,17,21,4,51]	ou execute the follow	wing Python cod	e?	