

# बिहार STET 2024

पेपर-2 (CLASS: 11<sup>th</sup> & 12<sup>th</sup>)

## COMPUTER SCIENCE

### MEMORY BASED

# Paper Analysis

मंगलवार, 11 जून 2024 Shift-1 & 2



बिहार



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**Audio compression can be used for\_\_\_\_\_**

- (a) voice and data**
- (b) video and voice**
- (c) speech or music**
- (d) picture and colors**

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**\_\_\_ is basically a form of pictorial presentation.**

- (a) Photography**
- (b) Animations**
- (c) Drawing**
- (d) Creativity**

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**Consider two binary numbers  $A = 110001$  and  $B = 001100$ . What is the result of  $(A \text{ and } B) \text{ OR } (\text{NOT } A \text{ AND NOT } B)$  ?**

**(a) 000000**

**(b) 110001**

**(c) 001100**

**(d) 111101**

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**What is the minimized expression for the Boolean function  $F(A, B, C, D) = \Sigma(0, 1, 2, 4, 5, 6, 10, 12, 13)$  using the K-map method?**

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**The minimum number of edges in a spanning tree of a connected graph with “n” vertices is:**

- (a)  $n$
- (b)  $n-1$
- (c)  $n+1$
- (d)  $n(n-1) / 2$

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**In pointer implementation of linked lists, which operation can be performed in constant time ( $O(1)$ ) when inserting or deleting nodes?**

- (a) inserting at the beginning**
- (b) Inserting at the end**
- (c) Inserting at a specific position**
- (d) Deleting a specific node**

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For a 2-D array represented in row-major order, the index formula to access the element at row “i” and column “j” using the base address “B” is:

(a)  $\text{Index} = B + (i * n + j)$

(b)  $\text{Index} = B + (j * n + i)$

(c)  $\text{Index} = B + (i + j)$

(d)  $\text{Index} = B + (i * m + j)$



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**In general, a file is basically a collection of all related\_\_\_.**

- (a) Rows & Columns**
- (b) Database**
- (c) Fields**
- (d) Records**

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**Which of the following refers to the number of attributes in a relation?**

- (a) Row
- (b) Degree
- (c) Column
- (d) All of the above

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**Process-to-process communication involves communication between:**

- (a) Different network layers**
- (b) Different devices on the same network**
- (c) Devices using different protocols**
- (d) Process on different devices**

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**The term HTTP stand for:**

- (a) Hyper Terminal Tracing Program**
- (b) Hypertext Tracing Program**
- (c) Hypertext Transfer Protocol**
- (d) Hypertext Tracing Protocol**

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**Which software life cycle model is based on iterative prototyping?**

- (a) Waterfall model**
- (b) Spiral model**
- (c) Agile model**
- (d) Prototype model**

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**ISO 9000 and SEI CMM are both frameworks related to:**

- (a) Software testing**
- (b) Software documentation**
- (c) Software quality assurance and process improvement**
- (d) Software design principles**

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**What is the term for defining multiple methods in a class with the same name but different parameters?**

- (a) Overriding**
- (b) Overloading**
- (c) Inheriting**
- (d) Inheritance**

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**The language accepted by Push down Automation:**

- (a) Recursive Language**
- (b) Context free language**
- (c) Linearly Bounded language**
- (d) All of the mentioned**



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**Which among the following is/are the best example of semantic networks?**

- (a) Wordnet**
- (b) Human Food Chain**
- (c) MYSIN**
- (d) Autonomous car driver**

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**Which of the following is not a Characteristics of Expert Systems?**

- (a) Understandable
- (b) Highly responsive
- (c) Unreliable
- (d) High performance

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**Unclassified email is called?**

- (a) Extra mail**
- (b) Spam**
- (c) junk mail**
- (d) None of the above**

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**Which of the following is the abbreviation of JPEG?**

- (a) Joint Photographic Experts Group**
- (b) Joint Photographs Expansion Group**
- (c) Joint Photographic Expanded Group**
- (d) Joint Photographic Expansion Group**

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**When adding two positive binary numbers using the 2's complement method, if the result has a carry-out from the most significant bit (MSB) , what should be done?**

- (a) Ignore the carry**
- (b) Add the carry to the least significant bit (LSB)**
- (c) Add the carry to the sign bit**
- (d) Subtract the carry-from the MSB**

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**In the context of the All-pair Shortest Paths algorithm, what does the term “transitive property” refer to?**

- (a) The property of having a cycle path**
- (b) The property of having all vertices connected to each other**
- (c) The property of being able to reach one vertex from another**
- (d) The property of a path being shorter than another path**

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**In a Binary Search Tree (BST) , the operation of deleting a node with one child involves:**

- (a) Removing the node and replacing it with its left child**
- (b) Removing the node and replacing it with its right child**
- (c) Removing the node and replacing it with its parent**
- (d) Removing the node and leaving the subtree unaltered**

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**Counting Sort is particularly efficient for sorting arrays where the range of elements is:**

- (a) Very large**
- (b) Very small**
- (c) Constant**
- (d) Sorted**



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**What is the primary function of SNMP (Simple Network Management Protocol) ?**

- (a) File transfer**
- (b) Remote terminal access**
- (c) Network management and monitoring**
- (d) Web browsing**

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**Frame design in the Data Link Layer includes:**

- (a) Deciding the routing path for data packets**
- (b) Defining the structure of data frames**
- (c) Assigning IP addresses to devices**
- (d) Setting the data transmission rate**

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**TCP regulates the end-to-end packet flow by use of:**

- (a) Source quench messages**
- (b) A window size advertisement**
- (c) Fixed size segments**
- (d) Binary exponential backoff**

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**What is the primary purpose of Software Requirements Specification (SRS) documents?**

- (a) To list the programming languages used**
- (b) To describe the user Interface design**
- (c) To define the software's functional and non-functional requirements**
- (d) To specify the hardware components required**

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## **What is encapsulation in OOP?**

- (a) The ability to inherit properties from multiple classes**
- (b) The process of creating objects**
- (c) The bundling of data and methods that operate on the data**
- (d) The use of abstract classes only**

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**What is the purpose of CSS media queries?**

- (a) To add multimedia content to a webpage**
- (b) To create animations**
- (c) To apply different styles based on the device's characteristics**
- (d) To define color schemes for a website**

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**How can you make an asynchronous request to a server in JavaScript?**

- (a) Using the “async” keyword**
- (b) Using the “await” keyword**
- (c) using the fetch API or XMLHttpRequest**
- (d) By defining a callback function**

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**What is the purpose of SQL injection attacks?**

- (a) To increase the performance of database queries**
- (b) To bypass authentication systems**
- (c) To improve database security**
- (d) To enhance data encryption**



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**A grammar that produces more than one parse tree for the same sentence is called:**

- (a) Contiguous**
- (b) Ambiguous**
- (c) Unambiguous**
- (d) Regular**

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**The minimum number of productions required to produce a language consisting of palindrome strings over  $\Sigma = \{a, b\}$  is**

- (a) 3**
- (b) 7**
- (c) 5**
- (d) 6**

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**Which of the following is true for the language:  $\{ap \mid p \text{ is a prime}\}$**

- (a) It is regular but not context-free**
- (b) It is neither regular nor context-free, but accepted by a Turing machine**
- (c) It is not accepted by a Turing Machine**
- (d) It is context-free but not regular**

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**Which products are people most likely to be more uncomfortable buying on the Internet?**

- (a) Books**
- (b) Movie ticket**
- (c) Furniture**
- (d) None of the above**

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**The study of encryption is called\_\_\_\_\_ :**

- (a) Encryption**
- (b) Cryptography**
- (c) Decryption**
- (d) None of the above**

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**SMTP FULL FORM AND USE**

**FTP FULL FORM AND USE**

**HTTP FULL FORM AND USE**

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**MIMD:-**

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## **BINARY TO GRAY CONVERSION:-**



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**MERGE SORT WORST TIME COMPLEXITY:-**

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**ABSTRACTION:-**

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## **1:M RELATIONSHIP**

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**RFID FULL FORM**

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**PUSH DOWN AUTOMATA GRAMMER NAME**

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**BLE FULL FORM**

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**BLE FULL FORM**

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**What is tag use for url link in html**



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**FAT stand for**

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**UDP**

**DDL command**

**What is use of INSERT Into**

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**. Abstract data type**

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**HTML FULL FORM**

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**HTML FULL FORM**

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- B. Enhancing understanding
- C. Data storage
- D. Networking

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Which multimedia element is most suitable for creating video games?

- A. Text
- B. Audio
- C. Animation
- D. Hyperlink

moving picture

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In Real Time Interactive Audio Video Conferencing, data is transferred by delay between \_\_\_\_\_

- (a) pixels
- (b) layers

Push Post

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Which payment method provides the highest level of security in e-commerce transactions?

- a) Credit Card
- b) Debit Card
- c) Cash on Delivery
- d) PayPal
- e) Cryptocurrency

**STET COMPUTER SCIENCE MEGA REVISION**

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Which products are people most likely to be more unc buying on the Internet?

- (a) Books
- (b) Movie ticket
- (c) Furniture
- (d) None of the above

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What does CRM stand for in e-commerce?

- a) Customer Relationship Management
- b) Customer Response Management
- c) Customer Retail Management
- d) Customer Revenue Management
- e) Customer Resource Management

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Which products are people most likely to be more uncomfortable buying on the Internet?

- a) Books
- b) Movies
- c) Music
- d) Travel tickets
- e) Electronics

only  
movie ticket

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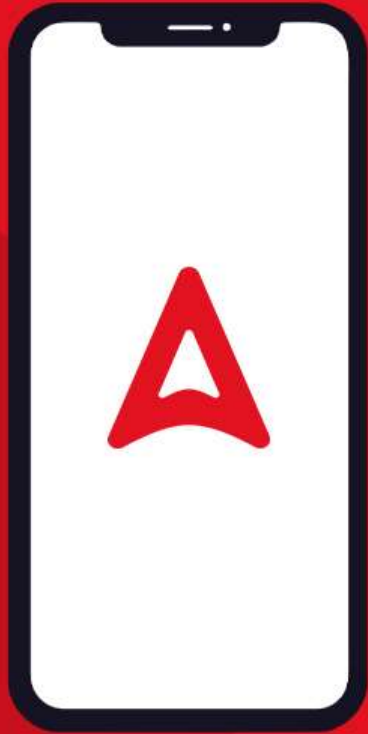
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