

बिहार STET 2024

पेपर-2 (CLASS: 11th & 12th)

COMPUTER SCIENCE

MEMORY BASED

Paper Analysis

मंगलवार, 11 जून 2024 Shift-1 & 2



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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**

___ 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?

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) $n(n-1) / 2$

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**

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

In general, a file is basically a collection of all related____.

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

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**

The term HTTP stand for:

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

Which software life cycle model is based on iterative prototyping?

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

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**

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**

The language accepted by Push down Automation:

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

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

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

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

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

Unclassified email is called?

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

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**

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**

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**

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**

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

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

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**

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**

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**

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**

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**

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**

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**

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**

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

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

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**

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**

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**

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

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 a
- C. Data storage
- D. Networking

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**Which multimedia ele
for creating video gar**

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

moving pict

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**In Real Time Interactive Audio Video
data by delay between**

- (a) pixels
- (b) layers

Page 16 Post a

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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

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

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- (c) Furniture
- (d) None of the above

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set (9th to 10th, 11th to 12th)

BPSC Working Exam & Answer sheet

BPSC Paper 1
Computer
(PGT, Clerk)

STET-1

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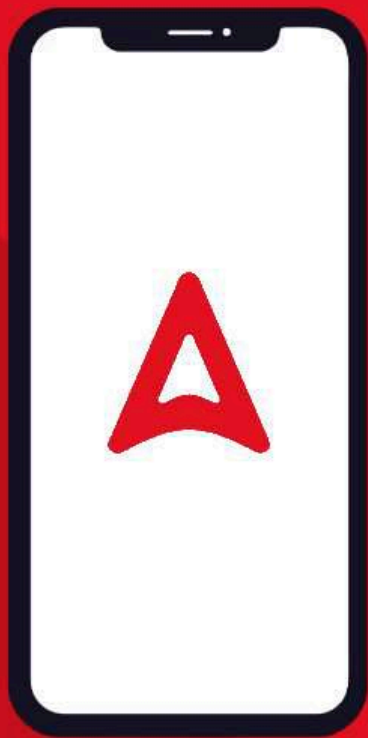
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