

National Testing Agency

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Data Science Artificial Intelligence Cyber Security And Computer Science

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Data Science Artificial Intelligence Cyber Security And Computer Science

Section Id :	432449239
Section Number :	1
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Number of Questions :	75
Number of Questions to be attempted :	75
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Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	432449610
Question Shuffling Allowed :	Yes
Is Section Default? :	No

Question Number : 1 Question Id : 43244918097 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following string is **not** generated by the grammar : $S \rightarrow SaSbS \mid \epsilon$?

- (1) aabb
- (2) abab
- (3) aababb
- (4) aaabb

Options :

43244970901. 1
43244970902. 2
43244970903. 3
43244970904. 4

Question Number : 2 Question Id : 43244918098 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

R_1 and R_2 are regular sets. Which of the following is **not** correct ?

- (1) $R_1 \cap R_2$ needs not be regular
- (2) $\Sigma^* - R_1$ is regular
- (3) $R_1 \cup R_2$ is regular
- (4) R_1^* is regular

Options :

- 43244970905. 1
- 43244970906. 2
- 43244970907. 3
- 43244970908. 4

Question Number : 3 Question Id : 43244918099 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following search uses the problem specific knowledge beyond the definition of the problem ?

- (1) Informed search
- (2) Depth first search
- (3) Breadth first search
- (4) Uninformed search

Options :

- 43244970909. 1
- 43244970910. 2
- 43244970911. 3
- 43244970912. 4

Question Number : 4 Question Id : 43244918100 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the acronym PEAS in AI. Which of the following is **not** correct ?

- (1) P - Perceptron
- (2) E - Environment
- (3) A - Actuators
- (4) S - Sensors

Options :

- 43244970913. 1
- 43244970914. 2
- 43244970915. 3
- 43244970916. 4

Question Number : 5 Question Id : 43244918101 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In UNIX, which system call is used for inter process communication via shared memory ?

- (1) pipe ()
- (2) msgget ()
- (3) shmget ()
- (4) semctl ()

Options :

- 43244970917. 1
- 43244970918. 2
- 43244970919. 3

Question Number : 6 Question Id : 43244918102 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

The messages exchanged by communicating processes reside in a temporary queue. Such queue cannot be implemented in the following way :

- (1) Zero capacity
- (2) Blocking capacity
- (3) Bounded capacity
- (4) Unbounded capacity

Options :

- 43244970921. 1
- 43244970922. 2
- 43244970923. 3
- 43244970924. 4

Question Number : 7 Question Id : 43244918103 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which is true about the fork () system call ?

- (1) It allocates memory
- (2) It creates a child process
- (3) It creates a program
- (4) It creates machine code

Options :

- 43244970925. 1
- 43244970926. 2
- 43244970927. 3
- 43244970928. 4

Question Number : 8 Question Id : 43244918104 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In hardwired control, the control signals are generated :

- (1) by microprogram stored in memory
- (2) by fixed combinational circuits
- (3) using PLA only
- (4) Sequentially from ROM

Options :

- 43244970929. 1
- 43244970930. 2
- 43244970931. 3
- 43244970932. 4

Question Number : 9 Question Id : 43244918105 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statement is **not** correct about addressing modes ?

- (1) Immediate addressing reduces memory access time
- (2) Index addressing is used for accessing array elements
- (3) Register indirect addressing allows accessing memory via a pointer
- (4) Relative addressing cannot be used for branch instruction

Options :

- 43244970933. 1
- 43244970934. 2
- 43244970935. 3
- 43244970936. 4

Question Number : 10 Question Id : 43244918106 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which type of firewall filters is based on application - layer data such as URL and HTTP headers ?

- (1) Packet-filtering firewall
- (2) Stateful inspection firewall
- (3) Application proxy firewall
- (4) Circuit level gateway

Options :

- 43244970937. 1
- 43244970938. 2
- 43244970939. 3
- 43244970940. 4

Question Number : 11 Question Id : 43244918107 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is **not** a valid address in an internet employing the TCP/IP protocols ?

- (1) Frame address
- (2) Physical address
- (3) Logical address
- (4) Port address

Options :

- 43244970941. 1
- 43244970942. 2
- 43244970943. 3
- 43244970944. 4

Question Number : 12 Question Id : 43244918108 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Suppose we can download 10 pages per minute. A page has 24 lines on average and a line has 80 characters on average. Assuming 8 bits per character, the bit rate is :

- (1) 6.4×10^5 bps
- (2) 1.536×10^5 bps
- (3) 8.64×10^3 bps
- (4) 2.56×10^3 bps

Options :

- 43244970945. 1
- 43244970946. 2
- 43244970947. 3
- 43244970948. 4

Question Number : 13 Question Id : 43244918109 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statement correctly differentiates substitution and transposition ciphers ?

- (1) Substitution changes the order of symbols; transposition replaces symbol
- (2) Both change symbol order and values simultaneously
- (3) Substitution replaces symbol with others; transposition rearranges their position
- (4) Substitution is always weaker than transposition in modern cryptography

Options :

- 43244970949. 1
- 43244970950. 2
- 43244970951. 3
- 43244970952. 4

Question Number : 14 Question Id : 43244918110 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In a secure communication model, if an attacker intercepts a message and replaces it with a fake one before forwarding it, this attack is best classified as :

- (1) Replay attack
- (2) Masquerade attack
- (3) Man in the middle
- (4) Denial of service

Options :

- 43244970953. 1
- 43244970954. 2
- 43244970955. 3
- 43244970956. 4

Question Number : 15 Question Id : 43244918111 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is a universal gate ?

- (1) AND
- (2) OR
- (3) NAND
- (4) Inverter

Options :

- 43244970957. 1
- 43244970958. 2
- 43244970959. 3
- 43244970960. 4

Question Number : 16 Question Id : 43244918112 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following boolean expression is related to De-Morgan theorem ?

- (1) $x + xy = x$
- (2) $x + (y + z) = (x + y) + z$
- (3) $x(y + z) = xy + xz$
- (4) $(x + y)' = x'y'$

Options :

- 43244970961. 1
- 43244970962. 2
- 43244970963. 3

Question Number : 17 Question Id : 43244918113 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Afer execution of ANI 0FH with accumulator = A9H, which flags are affected ?

- (1) Sign, zero and carry
- (2) Carry and zero
- (3) Zero and parity
- (4) Sign, zero, parity and carry

Options :

- 43244970965. 1
- 43244970966. 2
- 43244970967. 3
- 43244970968. 4

Question Number : 18 Question Id : 43244918114 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

After ADI 01H when A = FFH, the accumulator and carry flags are :

- (1) A = 00H, CY = 0
- (2) A = 00H, CY = 1
- (3) A = 01H, CY = 1
- (4) A = FEH, CY = 1

Options :

- 43244970969. 1
- 43244970970. 2
- 43244970971. 3
- 43244970972. 4

Question Number : 19 Question Id : 43244918115 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

In the fractional knapsack problem, the greedy choice is based on (i^{th} item has worth/value as V_i and weight as W_i) :

- (1) Maximum value (V_i)
- (2) Minimum weight (W_i)
- (3) Maximum value/weight (V_i/W_i) ratio
- (4) Random choice

Options :

- 43244970973. 1
- 43244970974. 2
- 43244970975. 3
- 43244970976. 4

Question Number : 20 Question Id : 43244918116 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following statement is true ?

- (1) Greedy and dynamic programming both require optimal sub structure
- (2) Greedy requires overlapping sub problems
- (3) Dynamic programming does not require optimal sub structure
- (4) Greedy always gives optimal solution

Options :

- 43244970977. 1
- 43244970978. 2
- 43244970979. 3
- 43244970980. 4

Question Number : 21 Question Id : 43244918117 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

For the Dijkstra's algorithm applying on a graph, which of the following condition is required?

- (1) Graph must be directed acyclic
- (2) Graph must not have negative edge weights
- (3) All edges must have equal weight
- (4) Graph must be complete

Options :

- 43244970981. 1
- 43244970982. 2
- 43244970983. 3
- 43244970984. 4

Question Number : 22 Question Id : 43244918118 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following operation is **not** a partial order relation ?

- (1) "less than or equal (\leq)" on \mathbb{R}
- (2) "subset (\subseteq)" on power set of set A
- (3) "Divides" on \mathbb{N}
- (4) "less than ($<$)" on \mathbb{R}

Options :

- 43244970985. 1
- 43244970986. 2
- 43244970987. 3
- 43244970988. 4

Question Number : 23 Question Id : 43244918119 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

if $f(x) = x^2 + 1$ and $g(x) = 2x - 3$, then $(f \circ g)(x)$ is equal to :

- (1) $4x^2 - 12x + 9$
- (2) $4x^2 - 12x + 10$
- (3) $4x^2 - 12x + 13$
- (4) $2x^2 - 6x + 10$

Options :

- 43244970989. 1
- 43244970990. 2
- 43244970991. 3
- 43244970992. 4

Question Number : 24 Question Id : 43244918120 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the group $G = \{+1, -1, +i, -i\}$ under multiplication operation.

Which of the following is **not** correct ?

- (1) G is an abelian group
- (2) G is a cyclic group
- (3) $\{1, -1\}$ is a subgroup of G
- (4) $\{1, -i, i\}$ is a subgroup of G

Options :

- 43244970993. 1
- 43244970994. 2
- 43244970995. 3
- 43244970996. 4

Question Number : 25 Question Id : 43244918121 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which visualization method is most effective for detecting outliers in multidimensional numerical data ?

- (1) Line graph
- (2) Pie chart
- (3) Box plot
- (4) Heat map

Options :

- 43244970997. 1
- 43244970998. 2
- 43244970999. 3
- 43244971000. 4

Question Number : 26 Question Id : 43244918122 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which clustering algorithm can detect clusters of arbitrary shape and handle noise effectively ?

- (1) K-Means
- (2) Mean shift
- (3) DBSCAN
- (4) Agglomerating hierarchical clustering

Options :

- 43244971001. 1
- 43244971002. 2
- 43244971003. 3
- 43244971004. 4

Question Number : 27 Question Id : 43244918123 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is primitive data type in C ?

- (1) long int
- (2) struct
- (3) union
- (4) enum

Options :

- 43244971005. 1
- 43244971006. 2

43244971007. 3

43244971008. 4

Question Number : 28 Question Id : 43244918124 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is **not** a non linear data structure ?

- (1) Binary tree
- (2) Heap
- (3) Graph
- (4) char

Options :

43244971009. 1

43244971010. 2

43244971011. 3

43244971012. 4

Question Number : 29 Question Id : 43244918125 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is **not** a keyword in C ?

- (1) do
- (2) break
- (3) join
- (4) for

Options :

43244971013. 1

43244971014. 2

43244971015. 3

43244971016. 4

Question Number : 30 Question Id : 43244918126 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which of the following is **not** correct IP address ?

- (1) 20.110.254.160
- (2) 25.256.230.10
- (3) 230.110.230.230
- (4) 10.11.234.234

Options :

43244971017. 1

43244971018. 2

43244971019. 3

43244971020. 4

Question Number : 31 Question Id : 43244918127 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements : one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

Assertion (A) : Preemptive scheduling can lead to race conditions in critical section.

Reason (R) : Preemption allows multiple processes to access shared data simultaneously.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **(A)** and **(R)** are correct and **(R)** is the correct explanation of **(A)**
- (2) Both **(A)** and **(R)** are correct but **(R)** is **not** the correct explanation of **(A)**
- (3) **(A)** is correct but **(R)** is not correct
- (4) **(A)** is not correct but **(R)** is correct

Options :

43244971021. 1

43244971022. 2

43244971023. 3

43244971024. 4

Question Number : 32 Question Id : 43244918128 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements : one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

Assertion (A) : In a ripple carry adder, carry propagation delay increases linearly with the number of bits.

Reason (R) : Each bit addition must wait for the carry output from the previous stage.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **(A)** and **(R)** are correct and **(R)** is the correct explanation of **(A)**
- (2) Both **(A)** and **(R)** are correct but **(R)** is **not** the correct explanation of **(A)**
- (3) **(A)** is correct but **(R)** is not correct
- (4) **(A)** is not correct but **(R)** is correct

Options :

43244971025. 1

43244971026. 2

43244971027. 3

43244971028. 4

Question Number : 33 Question Id : 43244918129 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements : one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

Assertion (A) : TCP uses sequence numbers to ensure reliable, in-order delivery of data segment.

Reason (R) : Sequence number helps detect packet duplication and reordering in transmission.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **(A)** and **(R)** are correct and **(R)** is the correct explanation of **(A)**
- (2) Both **(A)** and **(R)** are correct but **(R)** is **not** the correct explanation of **(A)**
- (3) **(A)** is correct but **(R)** is not correct
- (4) **(A)** is not correct but **(R)** is correct

Options :

43244971029. 1
43244971030. 2
43244971031. 3
43244971032. 4

Question Number : 34 Question Id : 43244918130 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements : one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

Assertion (A) : TCP provides reliable, in-order delivery of data segments using sequence numbers.

Reason (R) : TCP ensures security and confidentiality of transmitted data.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **(A)** and **(R)** are correct and **(R)** is the correct explanation of **(A)**
- (2) Both **(A)** and **(R)** are correct but **(R)** is **not** the correct explanation of **(A)**
- (3) **(A)** is correct but **(R)** is not correct
- (4) **(A)** is not correct but **(R)** is correct

Options :

43244971033. 1
43244971034. 2
43244971035. 3
43244971036. 4

Question Number : 35 Question Id : 43244918131 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements : one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

Assertion (A) : In a synchronous counter, all flip flops toggle simultaneously.

Reason (R) : All flip flops share the same clock signal.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **(A)** and **(R)** are correct and **(R)** is the correct explanation of **(A)**
- (2) Both **(A)** and **(R)** are correct but **(R)** is **not** the correct explanation of **(A)**
- (3) **(A)** is correct but **(R)** is not correct
- (4) **(A)** is not correct but **(R)** is correct

Options :

43244971037. 1
43244971038. 2
43244971039. 3
43244971040. 4

Question Number : 36 Question Id : 43244918132 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements : one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

Assertion (A) : During memory interfacing, address decoding is required to select the desired memory chip.

Reason (R) : Each memory chip has unique address range that must be enabled using chip select signals.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **(A)** and **(R)** are correct and **(R)** is the correct explanation of **(A)**
- (2) Both **(A)** and **(R)** are correct but **(R)** is **not** the correct explanation of **(A)**
- (3) **(A)** is correct but **(R)** is not correct
- (4) **(A)** is not correct but **(R)** is correct

Options :

43244971041. 1

43244971042. 2

43244971043. 3

43244971044. 4

Question Number : 37 Question Id : 43244918133 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements : one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

Assertion (A) : Prim's and Kruskal's algorithms always produce the same minimum total weight spanning tree for a given connected, weighted graph.

Reason (R) : Both algorithms use same greedy properties of choosing the minimum weight edge at each step.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **(A)** and **(R)** are correct and **(R)** is the correct explanation of **(A)**
- (2) Both **(A)** and **(R)** are correct but **(R)** is **not** the correct explanation of **(A)**
- (3) **(A)** is correct but **(R)** is not correct
- (4) **(A)** is not correct but **(R)** is correct

Options :

43244971045. 1

43244971046. 2

43244971047. 3

43244971048. 4

Question Number : 38 Question Id : 43244918134 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements : one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

Assertion (A) : Every function is a relation.

Reason (R) : A function can be one to many.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **(A)** and **(R)** are correct and **(R)** is the correct explanation of **(A)**
- (2) Both **(A)** and **(R)** are correct but **(R)** is **not** the correct explanation of **(A)**
- (3) **(A)** is correct but **(R)** is not correct
- (4) **(A)** is not correct but **(R)** is correct

Options :

43244971049. 1

43244971050. 2

43244971051. 3

43244971052. 4

Question Number : 39 Question Id : 43244918135 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Given below are two statements : one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

Assertion (A) : ++*ptr in C increments the value pointed by ptr.

Reason (R) : ptr is a pointer.

In the light of the above statements, choose the **most appropriate answer** from the options given below :

- (1) Both **(A)** and **(R)** are correct and **(R)** is the correct explanation of **(A)**
- (2) Both **(A)** and **(R)** are correct but **(R)** is **not** the correct explanation of **(A)**
- (3) **(A)** is correct but **(R)** is not correct
- (4) **(A)** is not correct but **(R)** is correct

Options :

43244971053. 1

43244971054. 2

43244971055. 3

43244971056. 4

Question Number : 40 Question Id : 43244918136 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

The attributes in IPsec for Authentication Header protocol in transport mode from left to right are :

- A. IPsec header
- B. Padding
- C. Authentication header
- D. Rest of original packet

Choose the **correct answer** from the options given below :

- (1) D, C, A, B
- (2) A, C, D, B
- (3) D, C, B, A
- (4) A, C, B, D

Options :

43244971057. 1
43244971058. 2
43244971059. 3
43244971060. 4

Question Number : 41 Question Id : 43244918137 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the following automata in increasing processing power :

- A. Linear bounded automata
- B. Turing machine
- C. Finite automata
- D. Pushdown automata

Choose the **correct** answer from the options given below :

- (1) A, B, D, C
- (2) C, D, A, B
- (3) B, A, C, D
- (4) C, D, B, A

Options :

43244971061. 1
43244971062. 2
43244971063. 3
43244971064. 4

Question Number : 42 Question Id : 43244918138 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the historic perspective of AI in terms of year of their development in increasing year :

- A. Turing test
- B. Expert systems
- C. Perceptron
- D. Analytical Engine

Choose the **correct** answer from the options given below :

- (1) D, A, C, B
- (2) A, C, B, D
- (3) D, A, B, C
- (4) A, C, D, B

Options :

43244971065. 1
43244971066. 2
43244971067. 3
43244971068. 4

Question Number : 43 Question Id : 43244918139 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

A process is organised in the memory from bottom to top ordering the following in correct order :

- A. stack
- B. text
- C. data
- D. heap

Choose the **correct** answer from the options given below :

- (1) B, C, D, A
- (2) B, D, C, A
- (3) A, C, D, B
- (4) A, D, C, B

Options :

- 43244971069. 1
- 43244971070. 2
- 43244971071. 3
- 43244971072. 4

Question Number : 44 Question Id : 43244918140 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Arrange 5 stage instruction pipeline operation in **correct** order :

- A. Instruction Fetch
- B. Instruction Decode / Register Fetch
- C. Execute / ALU operation
- D. Memory access
- E. Write Back

Choose the **correct** answer from the options given below :

- (1) A, C, B, E, D
- (2) A, B, D, C, E
- (3) B, A, C, D, E
- (4) A, B, C, D, E

Options :

- 43244971073. 1
- 43244971074. 2
- 43244971075. 3
- 43244971076. 4

Question Number : 45 Question Id : 43244918141 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the number of symbols in data representation in increasing order :

- A. Binary
- B. Hexadecimal
- C. Octal
- D. Penta (radix 5)

Choose the **correct** answer from the options given below :

- (1) A, D, C, B
- (2) B, C, A, D
- (3) A, D, B, C
- (4) B, C, D, A

Options :

- 43244971077. 1
- 43244971078. 2
- 43244971079. 3
- 43244971080. 4

Question Number : 46 Question Id : 43244918142 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the following recurrence relations. Their solutions have complexity in increasing order :

- A. $T(n) = 2\lfloor \frac{n}{2} \rfloor + T(\lceil \frac{n}{2} \rceil) + 1$
- B. $T(n) = T(n-1) + n$
- C. $T(n) = T(\lceil \frac{n}{2} \rceil) + 1$
- D. $T(n) = 2T(\lfloor \frac{n}{2} \rfloor) + n$

Choose the **correct** answer from the options given below :

- (1) C, D, A, B
- (2) B, A, D, C
- (3) C, A, D, B
- (4) B, D, C, A

Options :

- 43244971081. 1
- 43244971082. 2
- 43244971083. 3
- 43244971084. 4

Question Number : 47 Question Id : 43244918143 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Let G be finite set, which is a group under some operation and H be a subgroup and $a \in H$. Considering their order / cardinality in increasing order :

- A. $O(G)$
- B. $O(a)$
- C. $O(H)$
- D. $\text{Card}(2^G)$

Choose the **correct** answer from the options given below :

- (1) B, C, A, D
- (2) D, B, C, A
- (3) D, B, A, C
- (4) B, C, D, A

Options :

- 43244971085. 1
- 43244971086. 2
- 43244971087. 3
- 43244971088. 4

Question Number : 48 Question Id : 43244918144 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the following steps of a data science workflow to be arranged in correct order :

- A. Data preprocessing
- B. Model building
- C. Data collection
- D. Data visualization and interpretation
- E. Model evaluation

Choose the **correct** answer from the options given below :

- (1) C, A, B, E, D
- (2) A, C, B, D, E
- (3) C, B, A, D, E
- (4) B, C, A, E, D

Options :

- 43244971089. 1
- 43244971090. 2
- 43244971091. 3
- 43244971092. 4

Question Number : 49 Question Id : 43244918145 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the following statements in C to write a program in their order of occurrence :

- A. `Printf("%d", i);`
- B. `void main ()`
- C. `int i=5;`
- D. `#include <stdio.h>`

Choose the **correct** answer from the options given below :

- (1) D, B, C, A
- (2) B, D, C, A
- (3) B, C, A, D
- (4) D, B, A, C

Options :

- 43244971093. 1
- 43244971094. 2
- 43244971095. 3
- 43244971096. 4

Question Number : 50 Question Id : 43244918146 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the flags in flag Register from left to right :

- A. S
- B. Z
- C. AC
- D. P
- E. CY

Choose the **correct** answer from the options given below :

- (1) A, B, C, D, E
- (2) A, B, D, C, E
- (3) C, D, E, A, B
- (4) C, D, A, B, E

Options :

- 43244971097. 1
- 43244971098. 2
- 43244971099. 3
- 43244971100. 4

Question Number : 51 Question Id : 43244918147 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the 802.3 MAC frame fields from left to right :

- A. Preamble
- B. Source address
- C. SFD
- D. Destination address

Choose the **correct** answer from the options given below :

- (1) A, C, D, B
- (2) A, C, B, D
- (3) D, B, C, A
- (4) B, D, C, A

Options :

- 43244971101. 1
- 43244971102. 2
- 43244971103. 3
- 43244971104. 4

Question Number : 52 Question Id : 43244918148 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the following statements :

- A. Membership problem is decidable for regular and CFL languages.
- B. Emptiness problem is undecidable for RE languages
- C. Finiteness problem is decidable for regular languages
- D. Equivalence problem is decidable for context-free and RE languages

Choose the **correct** answer from the options given below :

- (1) A, B, C only
- (2) B, C, D only
- (3) C, D, A only
- (4) A, B only

Options :

- 43244971105. 1
- 43244971106. 2
- 43244971107. 3
- 43244971108. 4

Question Number : 53 Question Id : 43244918149 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Some Scientists, well known in AI domain have given AI definitions :

- A. The Science and Engineering of making intelligent machines, especially intelligent computer programs.
- B. The study of mental faculties through the use of computational models.
- C. The field of study that seeks to explain and emulate intelligent behaviour in terms of computational.
- D. The study of how to make computer do things at which, at a moment, people are better.
- E. The study and analyses of computing theory.

Choose the **correct** answer from the options given below :

- (1) A, B, C, D only
- (2) B, C, D, E only
- (3) C, E, A only
- (4) E, A, B only

Options :

- 43244971109. 1
- 43244971110. 2
- 43244971111. 3
- 43244971112. 4

Question Number : 54 Question Id : 43244918150 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the following statements about CPU scheduling :

- A. First come, first serve can lead to the "convoy effect"
- B. Shortest job first minimizes average waiting time
- C. Round robin does not use time quantum for fairness
- D. Priority scheduling may cause starvation
- E. Multilevel feedback queue combines preemptive and non preemptive scheduling

Choose the **correct** answer from the options given below :

- (1) A, B, C, E only
- (2) B, C, D, E only
- (3) A, B, D, E only
- (4) A, C, D only

Options :

- 43244971113. 1
- 43244971114. 2
- 43244971115. 3
- 43244971116. 4

Question Number : 55 Question Id : 43244918151 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the following statements about bus arbitration schemes :

- A. Daisy chaining is simple but slow
- B. Parallel priority arbitration provides faster response than serial methods
- C. Distributed arbitration allows multiple masters to share bus control
- D. Centralized arbitration increases fairness

Choose the **correct** answer from the options given below :

- (1) A, C, D only
- (2) A, B, C only
- (3) B, C, D only
- (4) A, B, D only

Options :

- 43244971117. 1
- 43244971118. 2
- 43244971119. 3
- 43244971120. 4

Question Number : 56 Question Id : 43244918152 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the following statements about flow and error control :

- A. Go-Back-N retransmits only the frame that is lost
- B. Selective Repeat improves the bandwidth utilization over Go-Back-N
- C. Parity bits can detect all single-bit errors
- D. Stop and wait protocol achieves high channel utilization on long-delay networks
- E. Cyclic Redundancy check provides stronger error detection than single parity

Choose the **correct** answer from the options given below :

- (1) A, B, E only
- (2) A, C, D only
- (3) B, C, D only
- (4) B, C, E only

Options :

- 43244971121. 1
- 43244971122. 2
- 43244971123. 3
- 43244971124. 4

Question Number : 57 Question Id : 43244918153 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the following statements about symmetric encryption :

- A. Same key for encryption and decryption
- B. Faster than asymmetric encryption
- C. Key distribution is simpler
- D. Stream ciphers encrypt one bit / byte at a time
- E. Block ciphers operate on groups of bits

Choose the **correct** answer from the options given below :

- (1) A, B, C, E only
- (2) B, C, D only
- (3) A, C, D, E only
- (4) A, B, D, E only

Options :

- 43244971125. 1
- 43244971126. 2
- 43244971127. 3
- 43244971128. 4

Question Number : 58 Question Id : 43244918154 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider following numbers :

- A. $(1101.01)_2 = (13.25)_{10}$
- B. $(13.28)_{10} = (1101.011)_2$
- C. $(2A)_{16} = (42)_{10}$
- D. $(37)_8 = (11010)_2$

Choose the **correct** answer from the options given below :

- (1) A, B, C only
- (2) B, D only
- (3) C, D only
- (4) A, C only

Options :

- 43244971129. 1
- 43244971130. 2
- 43244971131. 3
- 43244971132. 4

Question Number : 59 Question Id : 43244918155 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the following statements :

- A. MOV A, M copies data from memory (pointed by HL) to accumulator
- B. LXI H, 2025H loads 2025H into register pair HL
- C. STA 2050H stores the accumulator content into memory at address 2050H
- D. LDA 2050H loads HL with the contents of memory location at 2050H

Choose the **correct** answer from the options given below :

- (1) A, B, C only
- (2) B, C, D only
- (3) A, D only
- (4) A, C, D only

Options :

- 43244971133. 1
- 43244971134. 2
- 43244971135. 3
- 43244971136. 4

Question Number : 60 Question Id : 43244918156 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider following statements about time complexity :

- A. Merge sort and heap sort have $O(n \log n)$ in worst case
- B. Quick sort has $O(n \log n)$ in average case and $O(n^2)$ in worst case
- C. Insertion sort is faster than merge sort for large n
- D. Bubble sort is stable
- E. Selection sort has fewer swap than insertion sort

Choose the **correct** answer from the options given below :

- (1) B, C, E only
- (2) A, C, D only
- (3) A, B, C only
- (4) A, B, D, E only

Options :

- 43244971137. 1
- 43244971138. 2
- 43244971139. 3
- 43244971140. 4

Question Number : 61 Question Id : 43244918157 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider a binary operation $*$ on set Z (set of integers) defined as $a * b = a + b + 1$ then :

- A. $*$ is commutative
- B. $*$ is associative
- C. Identity element under $*$ exists
- D. Every element has an inverse under $*$
- E. The structure $(Z, *)$ is not a group

Choose the **correct** answer from the options given below :

- (1) A, B, E only
- (2) B, D, E only
- (3) A, C, D, E only
- (4) A, B, C, D only

Options :

- 43244971141. 1
- 43244971142. 2
- 43244971143. 3
- 43244971144. 4

Question Number : 62 Question Id : 43244918158 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider following statements :

- A. Regression predicts categorical outcomes.
- B. Classification models are used for continuous variable prediction.
- C. Clustering is an unsupervised learning task.
- D. Reinforcement learning uses rewards and penalties to improve performance.
- E. Decision tree can be used for both classification and regression

Choose the **correct** answer from the options given below :

- (1) A, B, E only
- (2) A, C, D only
- (3) C, D, E only
- (4) B, C, E only

Options :

- 43244971145. 1
- 43244971146. 2
- 43244971147. 3
- 43244971148. 4

Question Number : 63 Question Id : 43244918159 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Consider the following statements :

- A. In a binary search tree, left sub tree has smaller value than right sub tree
- B. In doubly linked list, only forward traversal is possible
- C. In C, a function may not always return a value
- D. Two dim array requires two index variables
- E. A tree must have at least two nodes

Choose the **correct** answer from the options given below :

- (1) A, B, C only
- (2) B, A, D only
- (3) C, D, E only
- (4) D, C, A only

Options :

- 43244971149. 1
- 43244971150. 2
- 43244971151. 3
- 43244971152. 4

Question Number : 64 Question Id : 43244918160 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match List - I with List - II.

List - I

- A. Cook's Theorem
- B. Pumping lemma for regular languages
- C. Closure under complementation
- D. Non-deterministic pushdown automata

List - II

- I. The Boolean satisfiability problem (SAT) is NP complete
- II. Used to prove non-regularity of certain languages
- III. Fails for context free language
- IV. Recognises all context - free languages

Choose the **correct** answer from the options given below :

- (1) A-I, B-II, C-III, D-IV
- (2) A-II, B-I, C-III, D-IV
- (3) A-III, B-II, C-IV, D-I
- (4) A-IV, B-III, C-II, D-I

Options :

- 43244971153. 1
- 43244971154. 2
- 43244971155. 3
- 43244971156. 4

Question Number : 65 Question Id : 43244918161 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match List - I with List - II.

List - I

- A. Modularity
- B. Representation
- C. Computational limits
- D. Interaction

List - II

- I. Bounded rationality
- II. Offline
- III. Flat
- IV. Features

Choose the **correct** answer from the options given below :

- (1) A-I, B-III, C-IV, D-II
- (2) A-I, B-II, C-IV, D-III
- (3) A-III, B-IV, C-I, D-II
- (4) A-III, B-IV, C-II, D-I

Options :

- 43244971157. 1
- 43244971158. 2
- 43244971159. 3
- 43244971160. 4

Question Number : 66 Question Id : 43244918162 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match List - I with List - II.

List - I

- A. Deadlock prevention
- B. Deadlock detection
- C. Deadlock avoidance
- D. Recovery from deadlock

List - II

- I. Banker's algorithm
- II. Rollback
- III. Circular wait
- IV. High overheads

Choose the **correct** answer from the options given below :

- (1) A-III, B-IV, C-II, D-I
- (2) A-I, B-III, C-II, D-IV
- (3) A-I, B-III, C-IV, D-II
- (4) A-III, B-IV, C-I, D-II

Options :

- 43244971161. 1
- 43244971162. 2
- 43244971163. 3
- 43244971164. 4

Question Number : 67 Question Id : 43244918163 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match List - I with List - II.

List - I

- A. Pipeline bubble
- B. Pipeline flush
- C. Data forwarding
- D. Pipeline stall

List - II

- I. A deliberate delay or idle slot inserted in pipeline
- II. Clearing all in progress instructions
- III. Using result before it is written back
- IV. Holding stages due to dependency or resource conflict

Choose the **correct** answer from the options given below :

- (1) A-I, B-II, C-III, D-IV
- (2) A-II, B-I, C-III, D-IV
- (3) A-IV, B-I, C-II, D-III
- (4) A-IV, B-III, C-II, D-I

Options :

- 43244971165. 1
- 43244971166. 2
- 43244971167. 3
- 43244971168. 4

Question Number : 68 Question Id : 43244918164 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match List - I with List - II.

List - I	List - II
A. Ethernet	I. Uses token passing and deterministic access
B. Token ring	II. Uses CSMA/CD for medium access
C. Wi-Fi (802.11)	III. Uses CSMA/CA to avoid collusion
D. Bluetooth	IV. IEEE 802.15.1

Choose the **correct** answer from the options given below :

- (1) A-II, B-I, C-III, D-IV
- (2) A-II, B-III, C-I, D-IV
- (3) A-IV, B-II, C-III, D-I
- (4) A-I, B-II, C-III, D-IV

Options :

- 43244971169. 1
- 43244971170. 2
- 43244971171. 3
- 43244971172. 4

Question Number : 69 Question Id : 43244918165 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match List - I with List - II.

List - I	List - II
A. Caesar Cipher	I. Substitution cipher using 5×5 matrix
B. Playfair Cipher	II. Polyalphabetic cipher using matrix multiplication
C. Hill Cipher	III. Monoalphabetic cipher using fixed shift
D. Vigenere Cipher	IV. Polyalphabetic cipher using keyboard repetition

Choose the **correct** answer from the options given below :

- (1) A-III, B-I, C-IV, D-II
- (2) A-III, B-I, C-II, D-IV
- (3) A-II, B-III, C-I, D-IV
- (4) A-III, B-IV, C-I, D-II

Options :

- 43244971173. 1
- 43244971174. 2
- 43244971175. 3
- 43244971176. 4

Question Number : 70 Question Id : 43244918166 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match List - I with List - II.

List - I

- A. $x(x' + y)$
- B. $x'y'z + x'yz + xy'$
- C. $xy + x'z + yz$
- D. $(x + y)(x' + z)(y + z)$

List - II

- I. $xy + x'z$
- II. $(x + y)(x' + z)$
- III. xy
- IV. $x'z + xy'$

Choose the **correct** answer from the options given below :

- (1) A-III, B-IV, C-I, D-II
- (2) A-I, B-III, C-II, D-IV
- (3) A-III, B-IV, C-II, D-I
- (4) A-I, B-III, C-IV, D-II

Options :

- 43244971177. 1
- 43244971178. 2
- 43244971179. 3
- 43244971180. 4

Question Number : 71 Question Id : 43244918167 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match List - I with List - II.

List - I

- A. Machine cycle
- B. T-state
- C. Instruction cycle
- D. Opcode fetch

List - II

- I. Time required to complete one operation (Fetch/read/write)
- II. One subdivision of a machine cycle
- III. Time required to complete one instruction
- IV. Machine cycle to get instruction opcode from memory

Choose the **correct** answer from the options given below :

- (1) A-II, B-III, C-IV, D-I
- (2) A-III, B-IV, C-I, D-II
- (3) A-IV, B-III, C-II, D-I
- (4) A-I, B-II, C-III, D-IV

Options :

- 43244971181. 1
- 43244971182. 2
- 43244971183. 3
- 43244971184. 4

Question Number : 72 Question Id : 43244918168 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match List - I with List - II.

List - I

- A. Binary search
- B. Merge sort
- C. Depth first search
- D. Breadth first search

List - II

- I. Queue
- II. Stack
- III. $T(n) = 2T(n/2) + n$
- IV. $T(n) = T(n/2) + 1$

Choose the **correct** answer from the options given below :

- (1) A-III, B-IV, C-I, D-II
- (2) A-I, B-II, C-III, D-IV
- (3) A-IV, B-III, C-II, D-I
- (4) A-II, B-IV, C-III, D-I

Options :

- 43244971185. 1
- 43244971186. 2
- 43244971187. 3
- 43244971188. 4

Question Number : 73 Question Id : 43244918169 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match List - I with List - II.

List - I

- A. Injective function
- B. Surjective function
- C. Bijective function
- D. non-injective and non-surjective

List - II

- I. $f(x) = x^2$ on \mathbb{R}
- II. $f(x) = 2x + 3$ on \mathbb{R}
- III. $f(x) = x^3$ on \mathbb{R}
- IV. Every element of a codomain has a preimage

Choose the **correct** answer from the options given below :

- (1) A-I, B-III, C-II, D-IV
- (2) A-III, B-I, C-IV, D-II
- (3) A-II, B-IV, C-III, D-I
- (4) A-II, B-IV, C-I, D-III

Options :

- 43244971189. 1
- 43244971190. 2
- 43244971191. 3
- 43244971192. 4

Question Number : 74 Question Id : 43244918170 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match List - I with List - II.

List - I

- A. Structured data
- B. Unstructured data
- C. Semi-structured data
- D. Time-series data

List - II

- I. tweet, text documents, videos
- II. sensor reading, temperature logs
- III. JSON, XML, web log files
- IV. Tabular data with defined schema

Choose the **correct** answer from the options given below :

- (1) A-IV, B-I, C-III, D-II
- (2) A-IV, B-III, C-I, D-II
- (3) A-IV, B-II, C-I, D-III
- (4) A-I, B-IV, C-III, D-II

Options :

- 43244971193. 1
- 43244971194. 2
- 43244971195. 3
- 43244971196. 4

Question Number : 75 Question Id : 43244918171 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Match List - I with List - II.

List - I

- A. typedef in C
- B. enum in C
- C. type casting
- D. pointer

List - II

- I. modifies the memory allocated to a variable
- II. stores memory address
- III. is similar to struct
- IV. redefines the name of existing data types

Choose the **correct** answer from the options given below :

- (1) A-IV, B-III, C-II, D-I
- (2) A-III, B-IV, C-I, D-II
- (3) A-III, B-IV, C-II, D-I
- (4) A-IV, B-III, C-I, D-II

Options :

- 43244971197. 1
- 43244971198. 2
- 43244971199. 3
- 43244971200. 4