

# FREE LIVE MOCK TEST

*2hr*

*Sunday*

*PM*

**3:30 pm**

**19 Sep 2021**

**Computer  
Science**

*20 Questions*

**MINI MOCK 20/20**



**RASHMI PRABHA**





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Good



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# Live Test - 3

20

Ready:



Q1

**Q1) The Hungarian method for the assignment problem is based on the fact that :**

- (A) The optimal assignment is not affected if a constant is subtracted from any row or column
- (B) The value of the objective function is not affected by adding or subtracting a constant from any row or column .
- (C) The optimal assignment is not affected by adding or subtracting a constant from any row or column
- (D) The optimal assignment is not affected if each entry in the cost matrix is treated separately to obtain sufficient number of zeros





**Q1) The Hungarian method for the assignment problem is based on the fact that :**

- (A) The optimal assignment is not affected if a constant is subtracted from any row or column
- ~~(B)~~ The value of the ~~objective function~~<sup>LPP</sup> is not affected by adding or subtracting a constant from any row or column
- ✓(C) The optimal assignment is not affected by adding or subtracting a constant from any row or column
- (D) The optimal assignment is not affected if each entry in the cost matrix is treated separately to obtain sufficient number of zeros



LPP-2B

Unit-1 - Unit-10

Q2) Using 16's complement method of subtraction compute  $\text{CB2H} - \text{972H}$  :

- (A) 68DH
- (B) 1340H
- (C) 340H
- (D) CB2H





easy

Q2) Using 16's complement method of subtraction compute  $CB2H - 972H$  :

8's 4's hexa

- (A) 68DH
- (B) 1340H
- ✓ (C) 340H
- (D) CB2H

$$\begin{array}{r}
 \overset{0}{\parallel} 9 \\
 10 \text{ A} \\
 11 \text{ B} - 972 \\
 12 \text{ C} \\
 13 \text{ D} \\
 14 \text{ E} \\
 15 \text{ F}
 \end{array}
 \begin{array}{r}
 CB2 \\
 12112 \\
 \hline
 340
 \end{array}$$



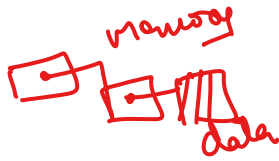
Q3ec.

CoA

Q3) Which one of the following is not a most common use of displacement addressing ?

- (A) Relative addressing
- (B) Base-register addressing
- (C) Indexing
- (D) Register-indirect addressing





static

Q3) Which one of the following is not a most common use of displacement addressing ?

26-30

10

add

- (A) Relative addressing
- (B) Base-register addressing
- (C) Indexing *base*
- (D) Register-indirect addressing



CG

Q4) From modeling coordinates to device coordinates in general 3D transformation pipeline, identify the correct order of other coordinates involved :

- (i) Viewing coordinates
- (ii) Projection coordinates
- (iii) World coordinates

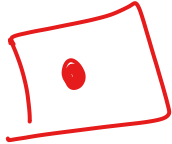
(A) (i), (ii) and (iii)

(C) (iii), (i) and (ii)

(B) (ii), (i) and (iii)

(D) (ii), (iii) and (i)





Q4) From modeling coordinates to device coordinates in general 3D transformation pipeline, identify the correct order of other coordinates involved :

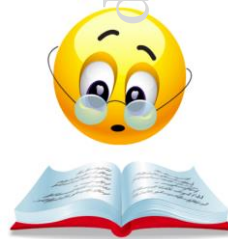
- (i) ~~V~~iewing coordinates
- (ii) ~~P~~rojection coordinates
- (iii) World coordinates

(A) (i), (ii) and (iii)

~~(C)~~ (iii), (i) and (ii)

(B) (ii), (i) and (iii)

(D) (ii), (iii) and (i)



*locking  
tough - basic*

Q5) Which of the following are the lock modes in multiple granularity locking ?

(i) S (ii) X (iii) SIX (iv) IX (v) IS

(A) (i) and (ii)

(B) (i), (ii) and (iii)

(C) (i), (ii), (iv) and (v)

(D) (i), (ii), (iii), (iv) and (v)



Q5) Which of the following are the lock modes in multiple granularity locking ?

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(C) (i), (ii), (iv) and (v)

~~(D)~~ (i), (ii), (iii), (iv) and (v)



== Q6) Which of the following is a method for mining frequent subgraphs ?

*Determining  
static*

- (i) Pattern growth approach.
- (ii) Priori-based approach.

- (A) (i) only
- (C) (i) and (ii)

- (B) (ii) only
- (D) None of the above





*Technique* Q6) Which of the following is a method for mining frequent subgraphs ? *static*

- (i) Pattern growth approach.
- (ii) Priori-based approach.

*(A)* (i) only

(C) (i) and (ii)

(B) (ii) only

(D) None of the above



big data

noch

Q7) For storing the information about networks, such as social connections, the stores used are  
.....

- (A) Key-value
- (B) Graph
- (C) Wide-column
- (D) Document



2-3

Repeat

Q7) For storing the information about networks, such as social connections, the stores used are .....

- (A) Key-value ✓ - application
- ✓ (B) Graph ✓
- (C) Wide-column ✓
- (D) Document ✓



20 7

Q8) Which one of these is appropriate in an agile and iterative software development process ?

- (A) Gather a complete set of requirements before designing/ building anything
- (B) Implement the system incrementally, building it up bit by bit
- (C) Implement the backend of the system first, that is, before implementing the front-end functionality with which users interact
- (D) Generate and maintain complete, detailed design documents, which comprehensively model all aspects of the design



Q8) Which one of these is appropriate in an agile and iterative software development process ?

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- ~~(D)~~ Generate and maintain complete, detailed design documents, which comprehensively model all aspects of the design



CMM  
expected

Q9) Which amongst the following are McCalls production transition factors ?

- (i) Reliability
- (ii) Portability
- (iii) Testability
- (iv) Reusability

- (A) (i) and (ii)
- (C) (ii) and (iv)

- (B) (ii) and (iii)
- (D) (i) and (iii)



*functional* ✓  
*Non-functional* ✓

Q9) Which amongst the following are McCall's production transition factors ?

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(A) (i) and (ii)

✓✓(C) (ii) and (iv)

(B) (ii) and (iii)

(D) (i) and (iii)



B+ tree

Tree

numerical

Q10) Some differences between B tree and B + tree approaches are :

- (i) In a B tree, search keys and data are stored in internal or leaf nodes. But, in B+ tree, data are stored only in leaf nodes.
- (ii) A link is maintained among all the nodes so that one can move from the left-most node to rightmost node in B+ tree.

- (A) only (i) is correct
- (B) only (ii) is correct
- (C) Both (i) and (ii) are correct
- (D) Both (i) and (ii) are incorrect





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TOC

①

Q11) Which amongst the following is not an NP-complete problem ?

*NPC, NP, NP-C, NPH*

- (A) CNF satisfiability problem
- (B) Clique decision problem
- (C) Node Cover decision problem
- (D) Halting problem



State - H  $\sum_N^Y$

Q11) Which amongst the following is not an NP-complete problem ?

- NP C
- (A) CNF satisfiability problem
  - (B) Clique decision problem
  - (C) Node Cover decision problem
  - (D) **Halting problem**



6-7 tough  
3-4 Compiler

7-8 TOC

Q12) A synthesized attributes can be :

*static*

- (i) Result of attribute evaluation rules.
- (ii) The one whose value at a node in a parse tree is defined in terms of its sibling or parent.
- (iii) The one whose value at parent node can be determined from its children.

(A) (i) only

(B) (i) and (iii) only

(C) (i) and (ii) only

(D) (ii) and (iii) only



Compiler Playlist

3,4  
note (2020)

Q12) A synthesized attributes can be : diff

Concept

- (i) Result of attribute evaluation rules.
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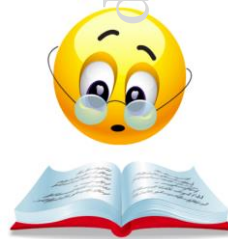


Q13) Which among the following is/are correct statement/statements ?

- (i) A class of problems with two outputs “yes” or “no” is said to be decidable (solvable) if there exists some definite algorithm which always terminates (halts) with one of two outputs “yes” or “no”. Otherwise, the class of problems is said to be undecidable.
- (ii) A decision problem is a problem that requires a yes or no answer.
- (iii) Undecidable problem can be solved by a computer or a computer program of any kind.

(A) (i) and (ii) only  
(C) (ii) and (iii) only

(B) (i) and (iii) only  
(D) (i), (ii) and (iii) only



ToCNet / SetQuick Revision

Q13) Which among the following is/are correct statement/statements ?

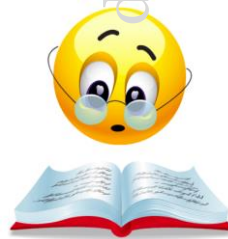
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✓ (A) (i) and (ii) only

(C) (ii) and (iii) only

(B) (i) and (iii) only

(D) (i), (ii) and (iii) only



like  
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share

20

Q14) Which ARQ mechanism deals with the transmission of only damaged or lost frames despite the other multiple frames by increasing the efficiency and its utility in noisy channels ?

CN

2020

- ✓ (A) Go-Back-N ARQ
- ✓ (B) Selective Repeat ARQ
- ✓ (C) Stop-and-Wait ARQ
- (D) All of the above





Q14) Which ARQ <sup>2021</sup> mechanism deals with the transmission of only damaged or lost frames despite the other multiple frames by increasing the efficiency and its utility in noisy channels ?

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2019

Q15) The responsibility of a Certification Authority (CA) for Digital Signature is to authenticate the :

- (A) hash function used
- (B) private keys of subscribers
- (C) key used in DES
- (D) public keys of subscribers



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- ~~(D)~~ public keys of subscribers



*protocol, (layer TCP/OS)*  
Q16)  
A). TCP handles both Congestion and flow control .  
*static*  
B). UDP handles Congestion but not flow control .

1. Both true
2. A True B false
3. A false B true
4. Both false



Q16)

A). TCP handles both Congestion and flow control .

B). UDP handles Congestion but not flow control .

1. Both true
- ✓ 2. **A True B false**
3. A false B true
4. Both false



162  
TCP →  
UDP →

Q17) Which of the following is not true for STRIPS language used for planning ?  
2 June 2019

- (A) There is no support for equality and types.
- (B) The goals and effects are specified as conjunction.
- (C) It uses open world assumption
- (D) It uses only positive literals in states



AI  
traditional  
PopC ↓

Q17) Which of the following is not true for STRIPS language used for planning ?

- 2021 (A) There is no support for equality and types.
- ADL (B) The goals and effects are specified as conjunction.  $\wedge \vee$
- (C) It uses open world assumption *closed world*
- (D) It uses only positive literals in states

ADL  $+ , - \vee$



Q18

Dec 2019

Q18) The activation levels of node in neural network depends on the activation function chosen. If it is a sigmoid function, then activation levels are :

- (A)  $[0, 1]$
- (B) unrestricted
- (C)  $[-, +]$
- (D) 0 (or  $-1$ ) and 1





Q18) The activation levels of node in neural network depends on the activation function chosen. If it is a sigmoid function, then activation levels are :

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*signu — objc*  
*sigmoid —*



Q19) The ability to manipulate the existing knowledge representational structures to derive new structures, is known as :

- (A) Representational adequacy
- (B) Inferential adequacy
- (C) Inferential efficiency
- (D) Acquisitional efficiency



Q19) The ability to manipulate the existing knowledge representational structures to derive new structures, is known as :

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*✓* Q20) Find the class of the following two addresses :

(a) 0000 0001 0000 1011  
00001011 11101111

(b) 14.23.120.8

(A) Class D, Class D

(B) Class C, Class C

(C) Class B, Class B

(D) Class A, Class A

*20*  
*20*  
*||*



Net - 2019

Q20) Find the class of the following two addresses :

(a) 0000 0001 0000 1011

00001011 11101111

(b) 14.23.120.8

- (A) Class D, Class D
- (B) Class C, Class C
- (C) Class B, Class B
- ✓(D) Class A, Class A

Class A 0 1-127  
Class B 10 128-191  
Class C 110 192-223  
Class D 1110 224-249  
Class E 250



Score?  
2-3  
PuD

20 like  
15-20  
20



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Notes(2OCT21)

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