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5 Sep. 2021

**QUIZ
DISCUSSION**



RASHMI PRABHA



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By- CombineCS
(Rashmi Prabha and Astha Tripathi)



Question 1

The depth of a hardware circuit is evaluated using which of following techniques:

- A Divide and Conquer
- B Depth first search
- C Topological sorting
- D Branch and bound



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Question 2

A RAW hazard can be handled using

- A) Register renaming**
- B) Operand forwarding**
- C) Pipeline**
- D) Super- scalar operation**



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Question 3

The read after write (RAW) hazard is called a

- A Control hazard
- B Data hazard
- C Structure hazard
- D Software hazard



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Question 4

Pipeline is a technique for

- A Component level parallelism**
- B Instruction level parallelism**
- C Core - level parallelism**
- D Network level parallelism**



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Question 5

Latency of the pipeline is the time taken for

- A All the instruction to be completed**
- B All the instruction fetch to be completed**
- C All the instruction execute stages to be completed**
- D The first instruction to be completed .**



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Question 6

The number of register to be inserted between two nodes in a DAG representation is decided by

- A Size of register**
- B Ordering in the topological sorting**
- C Number of nodes in DAG**
- D Number of edges in DAG**



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Question 7

RISC architectures are load factor architectures because of

- A Fixed length instruction**
- B Easiness for compiler**
- C Less number of instruction**
- D Large number of instruction**



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Question 8

Fragmentation is the state when

- A There is not enough space in memory to be located**
- B The OS is not admitting any new processes**
- C There is not enough contiguous space in memory**
- D The memory is full**



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- B The OS is not admitting any new processes**
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Question 9

The degree of multi- program is:

- A Number of processors in the computer
- B The number of program that is being executed concurrently
- C Number of memory unit
- D Number of CPU.



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Question 10

What kind of processor is x86

- A RISC**
- B CISC**
- C DISC**
- D None of above**



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Question 11

If a class B network on the Internet has a subnet mask of 255.255.248.0, what is the maximum number of hosts per subnet?

- A 1022
- B 1023
- C 2046
- D 2047



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Question 12

In class B if subnet mask is 255.192.0.0 Total Number of networks that can be joined

- A 32**
- B 64**
- C 16**
- D None**



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Question 13

The statement $(\neg p) \rightarrow (\neg q)$ is logically equivalent to which of the statements below?

- I. $p \rightarrow q$
- II. $q \rightarrow p$
- III. $(\neg q) \vee p$
- IV. $(\neg p) \vee q$

- (A) I only
- (B) I and IV only
- (C) II only
- (D) II and III only

Join telegram: <https://t.me/RashmiCCS>



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- (C) II only
- (D) II and III only**

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Question 14

The number of Anti-symmetric relations on an n -element set is

- A $2^{n(n-1)}$
- B $2^n \cdot 3^{n(n-1)/2}$
- C $2^{n(n+1)/2}$
- D $3^{n(n-1)/2}$



Question 14

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Question 15

A system contains three programs and each requires three tape units for its operation. The minimum number of tape units which the system must have such that deadlocks never arise is _____.

- (A) 6
- (B) 7
- (C) 8
- (D) 9



Question 15

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- (B) 7**
- (C) 8
- (D) 9



Question 16

A process executes the following code

```
for (i = 0; i < n; i++)
```

```
fork();
```

The total number of child processes created is...

- (A) n
- (B) $2^n - 1$
- (C) 2^n
- (D) $2^{(n+1)} - 1$



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Question 17

Which of following is **NOT** closed under union and intersection

- A Family of Unambiguous CFL
- B CFL
- C CSL
- D Regular language



Question 17

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- A Family of Unambiguous CFL**
- B CFL
- C CSL
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Question 18

- 1) Regular language can't be inherently ambiguous.
- 2) $L = \{ a^n b^m : n = 2^m \}$ is not context - free.

Following statements are :

- A True , false
- B False , false
- C False , True
- D True , true



Question 18

- 1) Regular language can't be inherently ambiguous.
- 2) $L = \{ a^n b^m : n = 2^m \}$ is not context - free.

Following statements are :

- A True , false
- B False , false
- C False , True
- D True , true**



Question 19

Which is/are statements are incorrect for BCNF?

- a) Functional dependency may not preserve.
- b) Not used for two mutually exclusive foreign key
- c) Lossless join but not dependency preserving
- d) Every table with 2 single valued attribute is in BCNF
- e) Any relation with 2 attribute is in BCNF

- 1. A,b,c only
- 2. B,c,d only
- 3. A,c,d only
- 4. All
- 5. None



Question 19

Which is/are statements are incorrect for BCNF?

- a) **Functional dependency may not preserve.**
- b) **Not used for two mutually exclusive foreign key**
- c) **Lossless join but not dependency preserving**
- d) **Every table with 2 single valued attribute is in BCNF**
- e) **Any relation with 2 attribute is in BCNF**

- 1. **A,b,c only**
- 2. **B,c,d only**
- 3. **A,c,d only**
- 4. **All**





Question 20

Which is NOT a clustering method?

- a) k-nearest neighbor
- b) k-mean
- c) self-organizing map
- d) neural network

Options:

- a) a,b only
- b) a,d only
- c) b,c,d only
- d) None





Question 20

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- a) k-nearest neighbor
- b) k-mean
- c) self-organizing map
- d) neural network

Options:

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- b) a,d only**
- c) b,c,d only
- d) None



Question 21

If a schedule is serial then it willguarantee serializability.

- a) at least
- b) Always
- c) May or may not
- d) None



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- a) at least
- b) Always**
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Question 22

Which is/are correct statements

- a) **If a schedule is Conflict serializable then it is Serializable**
 - b) **If a schedule is not serializable then it is not conflict serializable**
-
- 1. **Only a**
 - 2. **Only b**
 - 3. **Both**
 - 4. **None**



Question 22

Which is/are correct statements

- a) If a schedule is Conflict serializable then it is Serializable
 - b) If a schedule is not serializable then it is not conflict serializable
-
- 1. Only a
 - 2. Only b
 - 3. **Both**
 - 4. None



Question 23

Find minimal cover A,B,C,D,E,I

- FD = { $A \rightarrow C$, $AB \rightarrow C$, $C \rightarrow DI$, $CD \rightarrow I$, $EC \rightarrow AB$, $EI \rightarrow C$ }



Question 23

Find minimal cover A,B,C,D,E,I

- FD = { $A \rightarrow C$, $AB \rightarrow C$, $C \rightarrow DI$, $CD \rightarrow I$, $EC \rightarrow AB$, $EI \rightarrow C$ }
- Ans: { $A \rightarrow C$, $C \rightarrow D$, $EC \rightarrow A$, $EI \rightarrow C$ }



Question 24

which of the following occurs when a transaction re-reads data it has previously read and finds modifications or deletion caused by a committed transaction?

- a) **Dirty read**
- b) **Non-repeatable read**
- c) **Both**
- d) **None**



Question 24

which of the following occurs when a transaction re-reads data it has previously read and finds modifications or deletion caused by a committed transaction?

- a) Dirty read
- b) Non-repeatable read**
- c) Both
- d) None



Question 25

Max no. of super keys for R(E,F,G,H) if EFH is the candidate key

- a) 3
- b) 4
- c) 2
- d) 8



Question 25

Max no. of super keys for R(E,F,G,H) if EFH is the candidate key

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- b) 4
- c) 2**
- d) 8



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