

UEMK TERM I QUESTION PAPER (CSE 3RD) ODD SEM 2021

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QUESTION PAPER (ESP V)

In the following pairs of OSI protocol layer/sublayer and its functionality the incorrect pair is 2 points

- ☐ Transport layer and end to end process communication
- ☐ Medium access control sublayer and channel sharing
- ☒ Data link layer and bit synchronisation
- ☐ Network layer and routing

Clear selection

An organization has a class B network and wishes to form subnets for 64 departments. The subnet mask would be: 2 points

- ☐ 255.255.64.0
- ☐ 255.255.128.0
- ☒ 255.255.252.0
- ☐ 255.255.0.0

Clear selection



If a Firewall which supports 4 layer design can not

2 points

- ☐ Stop packets incoming from a specific IP address.
- ☒ Block HTTP traffic during 9:00 P.M to 5 A.M
- ☐ Block All ICMP traffic
- ☐ None

Clear selection

What is the time complexity of the following code snippet? `int a = 0, i = N;` 2 points
`while (i > 0) {a += i; i /= 2;}`

- ☐ $O(N / 2)$
- ☐ $O(\text{Sqrt}(N))$
- ☒ $O(\log N)$
- ☐ $O(N)$

Clear selection

If a class B network on the Internet has a subnet mask of 255.255.248.0, 2 points
what is the maximum number of hosts per subnet?

- ☐ 2047
- ☐ 1022
- ☐ 1023
- ☒ 2046

Clear selection



A lock that allows concurrent transactions to access different rows of the same table is known as a 2 points

- ☐ Database-level lock
- ☐ Page-level lock
- ☒ Row-level lock
- ☐ Table-level lock

Clear selection

BFS is started on a binary tree beginning from the root vertex. There is a vertex t at a distance four from the root. If t is the n th vertex in this BFS traversal, then the maximum possible value of n is 2 points

- ☐ 16
- ☐ 8
- ☒ 31
- ☐ 32

Clear selection

What is the name of transport layer protocol which is used to support the electronic mail 2 points

- ☒ TCP
- ☐ UDP
- ☐ IP
- ☐ SMTP

Clear selection



In a packet switching network, packets are routed from source to destination along a single path having two intermediate nodes. If the message size is 24 bytes and each packet contains a header of 3 bytes, then the optimum packet size is:

2 points

- ☒ 9
- ☐ 6
- ☐ 7
- ☐ 4

Clear selection

The address of a class B host is to be split into subnets with a 6-bit subnet number. What is the maximum number of subnets and the maximum number of hosts in each subnet?

2 points

- ☐ 64 subnets and 1024 hosts.
- ☐ 62 subnets and 262142 hosts.
- ☒ 62 subnets and 1022 hosts.
- ☐ 64 subnets and 262142 hosts.

Clear selection

The protocol data unit (PDU) for the application layer in the internet stack is

2 points

- ☒ message
- ☐ datagram
- ☐ frame
- ☐ Segment

Clear selection



Which of the following statement is not true?

2 points

- ☐ algorithm visualization is the use of images to convey some useful information about algorithms
- ☐ algorithm visualization techniques help in learning algorithms
- ☒ dynamic algorithm visualization shows an algorithm's progress through a series of still images.
- ☐ algorithm visualization may help uncover some unknown features of algorithms

Clear selection

In the IPv4 addressing format, the number of networks allowed under Class C addresses is

2 points

- ☐ 2^{14}
- ☐ 2^{24}
- ☒ 2^{21}
- ☐ 2^7

Clear selection

IP Header has a field TTL (Time To Live). Relate the following statement best explain the use of TTL

2 points

- ☐ It can be used to prioritize the packets
- ☒ It can be used to prevent packet looping.
- ☐ It can be used to optimize the throughput.
- ☐ It can be used to reduce the delay.

Clear selection



If $f(n)$ belongs to $O(g(n))$ then the following is true.

2 points

- ☐ $f(n) \geq O(g(n))$
- ☐ $f(n) = O(g(n))$
- ☒ $f(n) \leq O(g(n))$
- ☐ $f(n) < O(g(n))$

Clear selection

Which of the following system calls results in the sending of SYN packets? 2 points

- ☐ bind
- ☒ socket
- ☐ connect
- ☐ listen

Clear selection

Consider different activities related to email: m1: Send an email from a mail client to a mail server m2: Download an email from mailbox server to a mail client m3: Checking email in a web browser Which is the application level protocol used in each activity? 2 points

- ☐ m1: SMTP m2: FTP m3: HTTP
- ☐ m1: POP m2: SMTP m3: IMAP
- ☒ m1: SMTP m2: POP m3: HTTP
- ☐ m1: HTTP m2: SMTP m3: POP

Clear selection



Which join refers to join records from the write table that have no matching key in the left table are include in the result set:

2 points

- ☒ Right outer join
- ☐ Full outer join
- ☐ Left outer join
- ☐ Half outer join

Clear selection

The message 11001001 is to be transmitted using the CRC polynomial $x^3 + 1$ to protect it from errors. The message that should be transmitted is:

2 points

- ☐ 11001010
- ☒ 11001001011
- ☐ 110010010011
- ☐ 11001001000

Clear selection

DBMS periodically suspends all processing and synchronizes its files and journals through the use of

2 points

- ☐ Database change log
- ☐ Backup facility
- ☒ Checkpoint facility
- ☐ Recovery manager

Clear selection



Which of the following assertions is FALSE about the Internet Protocol (IP) 2 points ?

- ☐ IP ensures that a packet is discarded if it is unable to reach its destination within a given number of hops
- ☐ It is possible for a computer to have multiple IP addresses
- ☐ IP packets from the same source to the same destination can take different routes in the network
- ☒ The packet source cannot set the route of an outgoing packets; the route is determined only by the routing tables in the routers on the way

Clear selection

In Ethernet when Manchester encoding is used the bit rate is

2 points

- ☒ half the border rate
- ☐ twice the baud rate
- ☐ none of the above
- ☐ same as the baud rate

Clear selection

Recall the recurrence relation capturing the optimal time of the Tower of Hanoi problem with n discs, 0 points

- ☐ $T(n) = 2T(n - 1) + n$
- ☐ $T(n) = 2T(n - 2) + 2$
- ☐ $T(n) = 2T(n/2) + 1$
- ☒ $T(n) = 2T(n - 1) + 1$

Clear selection



What does it mean when we say that an algorithm X is

2 points

- ☐ X will be a better choice for all inputs
- ☒ X will be a better choice for all inputs except possibly small inputs
- ☐ Y will be a better choice for small inputs
- ☐ X will be a better choice for all inputs except possibly large inputs

Clear selection

In a network of LANs connected by bridges packets are sent from one LAN to another through intermediate bridges. Since more than one path may exist between two LANs packet may have to be routed through multiple bridges. Why is the spanning tree algorithm used for bridge routing?

2 points

- ☐ For shortest path routing between LANs
- ☒ For avoiding loops in the routing paths
- ☐ For fault tolerance
- ☐ For minimizing collisions

Clear selection

Which one of the following is a failure to a system

2 points

- ☒ Transaction failure
- ☐ Boot crash
- ☐ Read failure
- ☐ All of the mentioned

Clear selection

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ESP - V/UEMNK/2019-23/T1



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QUESTION PAPER (SDP V)

The average age of a class is 19 years. While the average age of boys is 20 and the average age of girls is 17. If the number of boys is 20 then find the number of girls in the class 2 points

- ☐ 16
- ☐ 15
- ☐ 18
- ☒ 10

Clear selection

Direction: Improve the bracketed part of the sentence. Internet providers would not block content because it would (not to be make economic sense) and consumers would not stand for it. 2 points

- ☐ No improvement
- ☐ not be making economical sense
- ☒ not make economic sense
- ☐ not be make economical sense

Clear selection



How many 3 digit number can be formed with the digits 5, 6, 2, 3, 7 and 9 which are divisible by 5 and none of its digit is repeated? 2 points

- ☐ 16
- ☒ 20
- ☐ 24
- ☐ 12

Clear selection

Pointing to a photograph of a boy Suresh said, "He is the son of the only son of my mother." How is Suresh related to that boy? 2 points

- ☐ Brother
- ☐ Uncle
- ☐ Cousin
- ☒ Father

Clear selection

Direction: In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word : EMBARGO 2 points

- ☐ Prescribe
- ☐ Comfort
- ☐ Justify
- ☒ Barrier

Clear selection



In a hostel there are 30 students and if the number of students increased by 5 then the expense is increased by 40 per day. But the average expenditure diminishes by 3. Find the original expenditure. 2 points

- ☐ 950
- ☒ 870
- ☐ 810
- ☐ 910

Clear selection

Directions : Study the information given below carefully and answer the question that follow: Reena drives 10 km to the north, turns left and drives 4 km, and then turned right and cover another 5 km, and then again turned right and travels another 4 km. In which direction would she be now? 2 points

- ☐ South
- ☒ East
- ☐ West
- ☐ South-East

Clear selection



The average weight of 12 people gets increased by 3.5kg when a person weighs 56 kg got replaced by another man. Find the weight of the new man 2 points

- ☐ 92kg
- ☒ 98kg
- ☐ 90kg
- ☐ 96kg

Clear selection

A police saw a Thief at a distance of 2km. When Police started chasing him Thief also started running. If the ratio of Speeds of Police to Thief is 5:4. Then thief was caught at a certain distance then how many Kms did police run to catch the Thief? 2 points

- ☐ 6 Km
- ☐ 5 Km
- ☐ 8 Km
- ☒ 10Km

Clear selection



Direction: Read the sentence & find out which of the following parts has an error: It is time we should have done something useful for the welfare of society.

2 points

- ☐ something useful for
- ☐ we should have done
- ☐ It is time
- ☒ the welfare of society

Clear selection

Direction: In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word :
Guzzle

2 points

- ☐ Sip
- ☒ Starve
- ☐ Swig
- ☐ Release

Clear selection

Direction: Read the sentence & find out which of the following parts has an error: Everyone must have sympathy for needy and the poor.

2 points

- ☐ sympathy for
- ☐ Everyone must have
- ☒ the poor
- ☐ needy and

Clear selection



In how many different ways can the letter of the word ELEPHANT be arranged so that vowels always occur together?

2 points

- ☐ 2360
- ☐ 2160
- ☐ 2260
- ☒ 2060

Clear selection

Direction: Read the sentence & find out which of the following parts has an error: Have you got all the equipments for making films?

2 points

- ☐ for making films?
- ☐ No error
- ☐ Have you got
- ☒ all the equipments

Clear selection

A full tank gets emptied in 8 minutes due to the presence of a leak in it. On opening a tap which can fill the tank at the rate of 9 L/min, the tank get emptied in 12 min. Find the capacity of a tank?

2 points

- ☐ 120 L
- ☐ 224 L
- ☒ 216 L
- ☐ 240 L

Clear selection



Anita goes to College at 20 km/h and reaches college 4 minutes late. Next time she goes at 25 km/h and reaches the college 2 minutes earlier than the scheduled time. What is the distance of her school? 2 points

- ☒ 10 km
- ☐ 12 km
- ☐ 15 km
- ☐ 16 km

Clear selection

The compound interest on a certain sum for 2 years is Rs. 786 and S.I. is Rs. 750. If the sum is invested such that the S.I. is Rs. 1296 and the number of years is equal to the rate per cent per annum, Find the rate of interest? 2 points

- ☐ 4%
- ☒ 6%
- ☐ 8%
- ☐ 5%

Clear selection

If in a certain language, 'okaperu', means 'fine cloth', 'meta lisa' means 'clear water' and 'donalisaperu' means 'fine clear weather', which word in that language means 'weather'? 2 points

- ☐ oka
- ☒ dona
- ☐ peru
- ☐ meta

Clear selection



A box contains 6 blue, 5 green and 4 red balls. If two balls are pick at random, then what is the probability that neither is blue?

2 points

- ☐ A. 10/21
- ☒ B. 12/35
- ☐ C. 3/5
- ☐ D. 11/21

Clear selection

Direction: In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word:
SWINDLE

2 points

- ☐ Insert
- ☒ Honesty
- ☐ Dupe
- ☐ Ample

Clear selection

A box contains 5 blue and 5 white balls. What is the probability of drawing 2 balls such that both are same in color?

2 points

- ☐ 0.33
- ☐ 0.75
- ☐ 1
- ☒ 0.5

Clear selection



The diameter of Road Roller is 84 cm and its length is 150 cm. It takes 600 revolutions to level once on a particular road. Then what is the area of that road in m^2 ? 2 points

- ☒ 2376
- ☐ 2516
- ☐ 2476
- ☐ 2496

Clear selection

In a group of 6 boys and 5 girls, 5 students have to be selected. In how many ways it can be done so that at least 2 boys are included 2 points

- ☐ 1524
- ☐ 1540
- ☐ 1560
- ☒ 1526

Clear selection

Direction: Read the sentence & find out which of the following parts has an error: Sonal, I and Bari have finished our studies. 2 points

- ☒ Sonal, I and Bari
- ☐ have finished
- ☐ No error
- ☐ our studies

Clear selection



From a pack of 52 cards, 2 cards are drawn at random. What is the probability of drawing such that there is at least 1 king?

2 points

- ☐ 23/190
- ☒ 33/221
- ☐ 33/220
- ☐ 35/256

Clear selection

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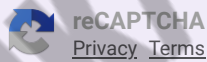
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