Question Paper Preview

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Programmer - I

Question id : 85183 (Correct + 1.0, Wrong - 0.33)

Consider a database table T containing two columns X and Y each of type integer. After the cre ation of the table, one record (X=1, Y=l) is inserted in the table.

Let MX and MY denote the respective maximum values of X and Y among all records in the ta ble at any point in time. Using MX and MY, new records are inserted in the table 128 times with X and Y values being MX+1, 2*MY+1 respectively. It may be noted that each time aft er the insertion, values of MX and MY change.

What will be the output of the following SQL query after the steps mentioned above are carrie d out?

SELECT Y FROM T WHERE X=7;

1.127

2.255

3.129

4.257

Question id : 85184 (Correct + 1.0, Wrong - 0.33)

Database table by name Loan_Records is given below.

Borrower Bank_Manager Loan_ Amount

Ramesh	Sunderajan	10000.00
Suresh	Ramgopal	5000.00
Mahesh	Sunderajan	7000.00

What is the output of the following SQL query?

SELECT count(*) FROM((SELECT Borrower. Bank_Manager FROM Loan_Records) AS S NATURAL JOIN (SELECT Bank_Manager, Loan_Amount FROM Loan_Records) AS T);

1. 3 2. 9 3. 5 4. 6 Question id : 85185 (Correct + 1.0 , Wrong - 0.33)

Consider a relational table with a single record for each registered student with the following att ributes.

- 1. Registration_Number: Unique registration number for each registered student
- 2. UID: Unique Identity number, unique at the national level for each citizen
- 3. BankAccount_Number: Unique account number at the bank. A student can have multiple ac
- counts or joint accounts. This attributes stores the primary account number
- 4. Name: Name of the Student
- 5. Hostel_Room: Room number of the hostel

Which of the following options is INCORRECT?

1. BankAccount_Number is a candidate key

2. Registration_Number can be a primary key

3. UID is a candidate key if all students are from the same country

4. If S is a superkey such that S UID is NULL then S UID $\cap \cup$ is also a superkey

Question id : 85186 (Correct + 1.0, Wrong - 0.33)

The concept of locking cannot be used to solve the problem of

Lost update
 Uncommitted Dependency
 Incosistent Data
 Deadlock
 Question id : 85187 (Correct + 1.0, Wrong - 0.33)

Designing physical model of DBMS requires information on

(i) Data volume

(ii) Frequency of access to data

(iii) Programming language used

(iv) Secondary memory characteristics

1. i, ii 2. i, ii, iii 3. i, ii, iii, iv

4. i, ii, iv Question id : 85188 (Correct + 1.0 , Wrong - 0.33)

In, Transaction, In ACIT properties A stands for

Atomicity
 Acidity
 Alphabetically
 None of the above
 Question id : 85189 (Correct + 1.0, Wrong - 0.33)

Relational calculus is a

Procedural language.
 Non- Procedural language.
 Data definition language.
 High level language.
 Question id : 85190 (Correct + 1.0, Wrong - 0.33)

Cartesian product in relational algebra is

a Unary operator.
 a Binary operator.
 a Ternary operator.
 not defined.
 Question id : 85191 (Correct + 1.0, Wrong - 0.33)

DML is provided for

1. Description of logical structure of database.

2. Addition of new structures in the database system.

3. Manipulation & processing of database

4. Definition of physical structure of database system.

Question id : 85192 (Correct + 1.0, Wrong - 0.33)

Architecture of the database can be viewed as

1. two levels.

- 2. four levels.
- 3. three levels.
- 4. one level.

Question id : 85193 (Correct + 1.0, Wrong - 0.33)

An entity set that does not have sufficient attributes to form a primary key is a

strong entity set.
 weak entity set.
 simple entity set.
 primary entity set.
 Question id : 85194 (Correct + 1.0, Wrong - 0.33)

The way a particular application views the data from the database that the application uses is a

module.
 relational model.
 schema.
 sub schema.
 Question id : 85195 (Correct + 1.0, Wrong - 0.33)

Assume transaction A holds a shared lock R, If transaction B also requests for a shared lock on R.

It will result in a deadlock situation
 It will immediately be granted
 It will immediately be rejected
 It will be granted as soon as released by A
 Question id : 85196 (Correct + 1.0, Wrong - 0.33)

A schedule S of n transactions is serializable if it is equivalent to some

1. Serial schedule of same n transactions

2. Non Serial schedule of same n transactions

3. Serial schedule of different n transactions

4. Non Serial schedule of different n transactions

Question id : 85197 (Correct + 1.0, Wrong - 0.33)

The method in which records are physically stored in a specified order according to a key field in each record is

hash.
 direct.
 sequential.

4. all of the above. **Question id : 85198** (Correct + 1.0, Wrong - 0.33)

Normalization of database is essential to

(i) avoid accidental deletion of requi red data when some data is deleted

(ii) eliminate inconsistencies when a data item is modified in the database

- (iii) allows storage of data in a computer's disk
- (iv) use a database management system

1. i and iii 2. i and ii 3. ii and iii 4. ii and iv Question id : 85199 (Correct + 1.0, Wrong - 0.33)

AS' clause is used in SQL for

Selection Operation
 Rename Operation
 Join Operation
 Projection Operation
 Question id : 85200 (Correct + 1.0, Wrong - 0.33)

A relation is said to be in 2 NF if

(i) it is in 1 NF

(ii) non-key attributes dependent on key attribute

(iii) non-key attributes a re independent of one another

(iv) if it has a composite key, no no n-

key attribute should be dependent on part of the composite key

1. i, ii, iii 2. i and ii 3. i, ii, iv 4. i, iv Question id : 85201 (Correct + 1.0 , Wrong - 0.33)

A relation is said to be in 3 NF if

(i) it is in 2 NF

(ii) non-key attributes are independent of one another

- (iii) key attribute is not dependent on part of a composite key
- (iv) has no multi-valued dependency

i and iii
 i and iv
 i and ii
 ii and iv
 Question id : 85202 (Correct + 1.0, Wrong - 0.33)

Given the following relation

Student (roll no , name, course no, course max. marks, year of study, address) The corresponding 3 NF relations are

student (roll no, name, year of study, address)
 student (roll no, name, year of study, address)

course (course no, course max. marks)

course (course no , course max. marks) student (roll no , course no)

3. student (roll no , name, address) year (roll no , year of study) course (course no , course max. marks)

4. student (roll no , name, address) course (course no , course max. marks, year of study) Question id : 85203 (Correct + 1.0 , Wrong - 0.33)

A 3 NF relation is converted to BCNF by

1. removing composite keys

- 2. removing multivalued dependencies
- 3. dependent attributes of overlapping composite keys are put in a separate relation

4. dependent non-key attributes are put in a separate table

Question id : 85204 (Correct + 1.0, Wrong - 0.33)

Given the relation
Supplier(s_id, p_order, s_name, qty)
Given that there is a unique s_name for each s_id and that s_id, p_order is a composite key, find the correct statement among the following:

(i) this relation is a BCNF
(ii) this is 3 NF relation
(iii) this is a 2 NF relation
(iv) this is a 1 NF relation

i and ii
 ii and iii
 i and iv
 i and iii
 Question id : 85205 (Correct + 1.0, Wrong - 0.33)

Fourth normal form (4 NF) relations are needed when

1. there are multivalued dependencies between attributes in composite key

- 2. there are more than one composite key
- 3. there are two or more overlapping composite keys
- 4. there are multivalued dependency between non-key attributes

Question id : 85206 (Correct + 1.0, Wrong - 0.33)

A relation project guidance

Project Guidance(professor, project, student no . st-name, dept) A professor can give many projects to many students A project will have many students A project may be guided by many professors The 4 NF relation corresponding to this are

- 1. Prof_Project (professor, st_name, dept) Proj_stud (project, student no.)
- 2. Prof_stud (professor, student no) Proj_stud (project, student no) Student (student no , st_name, dept)
- 3. Student (student no , st_name, dept) Professor(professor, project)
- 4. Professor(professor, project , dept) Student (student no , st_name, dept)

Question id : 85207 (Correct + 1.0, Wrong - 0.33)

Data integrity in a file based system may be lost because

the same variable may have different values in different files
 files are duplicated
 unnecessary data is stored in files
 redundant data is stored in files
 Question id : 85208 (Correct + 1.0, Wrong - 0.33)

A subschema expresses

- 1. the logical view.
- 2. the physical view.
- 3. the external view.
- 4. all of the above.

Question id : 85209 (Correct + 1.0, Wrong - 0.33)

Which one of the following statements is false?

1. The data dictionary is normally maintained by the database administrator.

2. Data elements in the database can be modified by changing the data dictionary.

3. The data dictionary contains the name and description of each data element.

4. The data dictionary is a tool used exclusively by the database administrator.

Question id : 85210 (Correct + 1.0, Wrong - 0.33)

Data independence means

data is defined separately and not included in programs.
 programs are not dependent on the physical attributes of data.
 programs are not dependent on the logical attributes of data.
 both (B) and (C).
 Question id : 85211 (Correct + 1.0, Wrong - 0.33)

SET concept is used in :

1. Network Model

- 2. Hierarchical Model
- 3. Relational Model
- 4. None of these

Question id : 85212 (Correct + 1.0, Wrong - 0.33)

In two phase locking protocol

1. All unlocking operation precede the first lock operation

2. All locking operation precede the first lock operation

3. Locking and unlocking takes place simultaneously

4. None of the above

Question id : 85213 (Correct + 1.0, Wrong - 0.33)

Transaction timestamp is

- 1. Not unique for each transaction
- 2. Larger for older transaction
- 3. Unique identifier assigned for each transaction

4. None of the above

Question id : 85214 (Correct + 1.0, Wrong - 0.33)

Which of the following operation is used if we are interested in only certain columns of a table?

PROJECTION
 SELECTION
 UNION
 JOIN
 Question id : 85215 (Correct + 1.0, Wrong - 0.33)

Which operation sets LOCK (X) to 0

unlock_item(X)
 lock_item(X)
 dlock(X)
 all of the above
 Question id : 85216 (Correct + 1.0, Wrong - 0.33)

Which database level is closest to the users?

External
 Internal
 Physical
 Conceptual
 Question id : 85217 (Correct + 1.0, Wrong - 0.33)

Which of the operations constitute a basic set of operations for manipulating relational data?

Predicate calculus
 Relational calculus
 Relational algebra
 None of the above
 Question id : 85218 (Correct + 1.0, Wrong - 0.33)

A data dictionary is a special file that contains:

The name of all fields in all files.
 The width of all fields in all files.
 The data type of all fields in all files.
 All of the above.
 Question id : 85219 (Correct + 1.0, Wrong - 0.33)

The physical location of a record is determined by a mathematical formula that transforms a file key into a record location is :

B-Tree File
 Hashed File
 Indexed File
 Sequential file.
 Question id : 85220 (Correct + 1.0, Wrong - 0.33)

If the complete execution of transactions takes the database from one consistent state to the othe r, then that property of the transaction is called

Isolation
 Durability
 Consistency preservation
 None of the above
 Question id : 85221 (Correct + 1.0, Wrong - 0.33)

Consider the join of a relation R with relation S. If R has m tuples and S has n tuples, then the maximum size of join is:

1. mn 2. m+n 3. (m+n)/2 4. 2(m+n) Question id : 85222 (Correct + 1.0 , Wrong - 0.33)

The natural join is equal to :

1. Cartesian Product

2. Combination of Union and Cartesian product

3. Combination of selection and Cartesian product

4. Combination of projection and Cartesian product

Question id : 85223 (Correct + 1.0, Wrong - 0.33)

Which one is the correct answer for following statements

- I. A binary lock can have three states.
- II. Shadow paging is a recovery technique in databases.

1. I- True, II- False

2. I- True, II- True
3. I- False, II- False
4. I- False, II- True
Question id: 85224 (Correct + 1.0, Wrong - 0.33)

______ is a virtual table that draws its data from the result of an SQL SELECT statement.

View
 Synonym
 Sequence
 Transaction
 Question id : 85225 (Correct + 1.0, Wrong - 0.33)

A set of possible data values is called

Attribute.
 Degree.
 Tuple.
 Domain.
 Question id : 85226 (Correct + 1.0, Wrong - 0.33)

Time stamp can be generated by

Counter
 Current date/time
 both
 None of the above
 Question id : 85227 (Correct + 1.0, Wrong - 0.33)

A layer-

4 firewall (a device that can look at all protocol headers up to the transport layer) CANNOT

Block entire HTTP traffic during 9:00AM and 5:00PM
 Block all ICMP traffic
 Stop incoming traffic from a specific IP address but allow outgoing traffic to the same IP address
 Block TCP traffic from a specific user on a multi-user system during 9:00 AM and 5:00PM

Question id : 85228 (Correct + 1.0, Wrong - 0.33)

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?

1. M1:HTTP M2:SMTP M3:POP 2. M1:SMTP M2:FTP M3:HTTP 3. M1: SMTP M2: POP M3:HTTP 4. M1:POP M2:SMTP MM3:IMAP Question id : 85229 (Correct + 1.0, Wrong - 0.33)

Why are port numbers included in the TCP header of a segment?

To indicate the correct router interface that should be used to forward a segment
 To identify which switch ports should receive or forward the segment
 To determine which Layer 3 protocol should be used to encapsulate the data
 To enable a receiving host to forward the data to the appropriate application
 Question id : 85230 (Correct + 1.0, Wrong - 0.33)

What is the purpose of the preamble in an Ethernet frame?

is used as a padding for data
 is used for timing synchronization
 is used to identify the source address
 is used to identify the destination address
 Question id : 85231 (Correct + 1.0, Wrong - 0.33)

Which is the protocol among the following that is used for translating from physical address to I nternet address?

1. ICMP 2. ARP 3. IGRP 4. RARP **Question id : 85232** (Correct + 1.0, Wrong - 0.33)

One of the header fields in an IP datagram is the Time to Live (TTL)field. Which of the following statements best explains the need for this field?

1. It can be used to prioritize packets

- 2. It can be used to reduce delays
- 3. It can be used to optimize throughput

4. It can be used to prevent packet looping Question id : 85233 (Correct + 1.0, Wrong - 0.33)

Which one of the following is not a client server application?

Internet Chat
 Web browsing
 E-mail
 Ping
 Question id : 85234 (Correct + 1.0, Wrong - 0.33)

Suppose computers A and B have IP addresses 10.105.1.113 and 10.105.1.91 respectively and t hey both use the same net mask N. Which of the values of N given below should not be used if A and B should belong to the same network?

1. 255.255.255.0 2. 255.255.255.128 3. 255.255.255.192 4. 255.255.255.224 Question id : 85235 (Correct + 1.0, Wrong - 0.33)

While opening a TCP connection, the initial sequence number is to be derived using a time-ofday (ToD) clock that keeps running even when the host is down. The low order 32 bits of the c ounter of the ToD clock is to be used for the initial sequence numbers. The clock counters incre ments once per millisecond. The maximum packet lifetime is given to be 64s. Which one of the choices given below is closest to the minimum permissible rate at which sequence numbers use d for packets of a connection can increase?

1. 0.015/s 2. 0.064/s 3. 0.135/s 4. 0.327/s Question id : 85236 (Correct + 1.0 , Wrong - 0.33)

Let G(x) be the generator polynomial used for CRC checking. What is the condition that should be satisfied by G(x) to detect odd number of bits in error?

G(x) contains more than two terms
 G(x) does not divide 1+xk, for any k not exceeding the frame length
 1+x is a factor of G(x)
 G(x) has an odd number of terms.
 Question id : 85237 (Correct + 1.0, Wrong - 0.33)

A computer on a 10Mbps network is regulated by a token bucket. The token bucket is filled at a rate of 2Mbps. It is initially filled to capacity with 16Megabits. What is the maximum duration f or which the computer can transmit at the full 10Mbps?

1. 1.6 seconds
 2. 2 seconds
 3. 5 seconds
 4. 8 seconds
 Question id : 85238 (Correct + 1.0, Wrong - 0.33)

In Ethernet when Manchester encoding is used, the bit rate is:

Half the baud rate
 Twice the baud rate
 Same as the baud rate
 None of the above
 Question id : 85239 (Correct + 1.0, Wrong - 0.33)

There are n stations in a slotted LAN. Each station attempts to transmit with a probability p in e ach time slot. What is the probability that ONLY one station transmits in a given time slot?

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1. np(1-p)n-1
2. (1-p)n-1
3. p(1-p)n-1
4. 1-(1-p)n-1
Question id : 85240 (Correct + 1.0, Wrong - 0.33)
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. In a token ring network the transmission speed is 107 bps and the propagation speed is 200 me ters/ms. The 1-bit delay in this network is equivalent to:

500 meters of cable.
 200 meters of cable.
 20 meters of cable.
 50 meters of cable.
 Question id : 85241 (Correct + 1.0, Wrong - 0.33)

The address of a class B host is to be split into subnets with a 6bit subnet number. What is the maximum number of subnets and the maximum number of hosts in each subnet? 62 subnets and 262142 hosts.
 64 subnets and 262142 hosts.
 62 subnets and 1022 hosts.
 64 subnets and 1024 hosts.
 Question id : 85242 (Correct + 1.0, Wrong - 0.33)

Station A uses 32 byte packets to transmit messages to Station B using a sliding window protoc ol. The round trip delay between A and B is 80 milliseconds and the bottleneck bandwidth on th e path between A and B is 128 kbps. What is the optimal window size that A should use?

1. 20 2. 40 3. 160 4. 320 Question id : 85243 (Correct + 1.0 , Wrong - 0.33)

Two computers C1 and C2 are configured as follows. C1 has IP address 203.197.2.53 and netm ask 255.255.128.0. C2 has IP address 203.197.75.201 and netmask 255.255.192.0. which one of the following statements is true?

1. C1 and C2 both assume they are on the same network

2. C2 assumes C1 is on same network, but C1 assumes C2 is on a different network

3. C1 assumes C2 is on same network, but C2 assumes C1 is on a different network

4. C1 and C2 both assume they are on different networks.

Question id : 85244 (Correct + 1.0, Wrong - 0.33)

Station A needs to send a message consisting of 9 packets to Station B using a sliding window (window size 3) and go-back-

n error control strategy. All packets are ready and immediately available for transmission. If eve ry 5th packet that A transmits gets lost (but no acks from B ever get lost), then what is the numb er of packets that A will transmit for sending the message to B?

1. 12 2. 14 3. 16 4. 18 Question id : 85245 (Correct + 1.0 , Wrong - 0.33)

ATM breaks all traffic into 53-Byte cells because

1. 53-Byte cells are the ideal size for the voice communication

2. 53-Byte cells are the ideal size for data communication

3. 53-Byte cells are the ideal size for circuit switching

4. 53-Byte cells are the compromised size for both voice and data communication Question id : 85246 (Correct + 1.0, Wrong - 0.33)

Why is Frame Relay's throughput lower than that of ATM?

1. Frame Relaying have error control (ARQ) functionality but not ATM.

2.

ATM does not need to have CRC checking/generation or bit stuffing's functionality in the packets as in Frame Relay.

3. Frame Relaying needs to do multiplexing of logical channels but not ATM. 4.

Although both Frame relay and ATM have frame boundary recognition (flags), ATM doesn't ha ve bit stuffing as in frame Relaying.

Question id : 85247 (Correct + 1.0, Wrong - 0.33)

Which of the following is not the function of the AAL?

1. Cell header generation.

2. Handling of lost and misinserted cell.

3. Handling of cell delay variation.

4. Segmentation and reassembly of user information.

Question id : 85248 (Correct + 1.0, Wrong - 0.33)

Which of the following is not true about the difference of B-ISDN as compared to ISDN?

1. B-

ISDN provides for communication services with very high bit rate requirements such as digital t elevision

2. B-ISDN uses optical fiber cable whereas ISDN makes us of the existing infrastructure.

3. B-ISDN uses only packet switching whereas ISDN does not perform packet switching.

4. The bit rate for ISDN is prespecified unlike B-ISDN

Question id : 85249 (Correct + 1.0, Wrong - 0.33)

Which of the following types of channels moves data relatively slowly?

Wide band channel
 Voice band channel
 Narrow band channel
 None of the above
 Question id : 85250 (Correct + 1.0, Wrong - 0.33)

Which of the following statement is correct?

1. Terminal section of a synchronous modem contains the scrambler

2. Receiver section of a synchronous modem contains the scrambler

3. Transmission section of a synchronous modem contains the scrambler

4. Control section of a synchronous modem contains the scrambler

Question id : 85251 (Correct + 1.0, Wrong - 0.33)

ATM is said to be a connection oriented technology. What does this mean and why is it necessar y?

1. Cells travels through the same path to the receiver. By this, cell do not have to be rearranged.

2. Cells travels through different paths. Therefore cells can reach the receiver faster.

3. A path is reserved exclusively for one user. Arrangement of cells is not necessary

4. Cells are transmitted using fiber optic cables. Cells would be less susceptible to errors.

Question id : 85252 (Correct + 1.0, Wrong - 0.33)

Which of the following is done in the physical layer of the ATM network?

1. Cell multiplexing and demultiplexing.

- 2. Generic flow control
- 3. Transmission frame generation/recovery

4. Monitoring of the user information field for bit errors and possible corrective actions **Question id : 85253** (Correct + 1.0, Wrong - 0.33)

How much power (roughly) a light emitting diode can couple into an optical fiber?

1. 100 microwatts
 2. 440 microwatts
 3. 100 picowatts
 4. 10 miliwatts
 Question id : 85254 (Correct + 1.0, Wrong - 0.33)

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

1. It is possible for a computer to have multiple IP addresses

2.

IP packets from the same source to the same destination can take different routes in the network 3.

IP ensures that a packet is forwarded if it is unable to reach its destination within a given numbe

r of hopes 4. The packet source cannot set the route of an outgoing packets; the route is determined only by t he routing tables in the routers on the way **Question id : 85255** (Correct + 1.0, Wrong - 0.33)

A 2 km long broadcast LAN has 107 bps bandwidth and uses CSMA/CD. The signal travels alo ng the wire at 2 x 108 m/s. What is the minimum packet size that can be used on this network?

50 bytes
 100 bytes
 200 bytes
 None of the above
 Question id : 85256 (Correct + 1.0, Wrong - 0.33)

Host A is sending data to host B over a full duplex link. A and B are using the sliding window p rotocol for flow control. The send and receive window sizes are 5 packets each. Data packets (se nt only from A to B) are all 1000 bytes long and the transmission time for such a packet is 50 mi cro s. Acknowledgment packets (sent only from B to A) are very small and require negligible tr ansmission time. The propagation delay over the link is 200 micro s.. What is the maximum ach ievable throughput in this communication?

1. 7.69 x 106 bps 2. 11.11 x 106 bps 3. 12.33 x 106 bps 4. 15.00 x 106 bps Question id : 85257 (Correct + 1.0, Wrong - 0.33)

Which of the following functionalities must be implemented by a transport protocol over and ab ove the network protocol?

Recovery from packet losses
 Detection of duplicate packets
 Packet delivery in the correct order
 End to end connectivity
 Question id : 85258 (Correct + 1.0, Wrong - 0.33)

Which of the following is NOT true with respect to a transparent bridge and a router?

1. Both bridge and router selectively forward data packets

2. A bridge uses IP addresses while a router uses MAC addresses

3. A bridge builds up its routing table by inspecting incoming packets

4. A router can connect between a LAN and a WAN Question id : 85259 (Correct + 1.0, Wrong - 0.33)

How many 8-

bit characters can be transmitted per second over a 9600 baud serial communication link using a synchronous mode of transmission with one start bit, eight data bits, and one parity bit?

1. 600 2. 800 3. 876 4. 1200 Question id : 85260 (Correct + 1.0 , Wrong - 0.33)

A and B are the only two stations on an Ethernet. Each has a steady queue of frames to send. Bo th A and B attempt to transmit a frame, collide, and A wins the first backoff race. At the end of t his successful transmission by A, both A and B attempt to transmit and collide. The probability t hat A wins the second

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1. 0.5
2. 0.625
3. 0.75
4. 1
Question id : 85261 (Correct + 1.0 , Wrong - 0.33)
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Assuming that the packets are correctly delivered, how many bytes, including headers, are delivered to the IP layer at the destination for one application message, in the best case? Consider only data packets.

1. 200 2. 220 3. 240 4. 260 Question id : 85262 (Correct + 1.0 , Wrong - 0.33)

Packets of the same session may be routed through different paths in

TCP, but not UDP
 TCP and UDP
 UDP, but not TCP
 Neither TCP, nor UDP
 Question id : 85263 (Correct + 1.0, Wrong - 0.33)

The address resolution protocol (ARP) is used for

1. Finding the IP address from the DNS

2. Finding the IP address of the default gateway

3. Finding the IP address that corresponds to a MAC address

4. Finding the MAC address that corresponds to an IP address

Question id : 85264 (Correct + 1.0, Wrong - 0.33)

maximum window size for data transmission using the selective reject protocol with n-bit frame sequence numbers is

1. 2n 2. 2n-1 3. 2n - 1 4. 2n-2 Question id : 85265 (Correct + 1.0 , Wrong - 0.33)

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, packets may have to be routed through multiple bridges. Why is the spanning tree algorithm used for bridge-routing?

1. For shortest path routing between LANs

2. For avoiding loops in the routing paths

3. For fault tolerance

4. For minimizing collisions

Question id : 85266 (Correct + 1.0, Wrong - 0.33)

The optical fibre trans-Atlantic cable TAT-14 includes a section from Bude, Cornwall to Tuckerton, New Jersey. Determine the propagatio n delay if the route length is 6,254 km.

1. 31.27 ms. 2. 3.198 ms 3. 31.98 ms 4. 312.7 ms Question id : 85267 (Correct + 1.0, Wrong - 0.33)

A data link between the head office of a financial organization and one of its branches runs cont inuously at 2.048 Mbps. Between the hours of 0900 and 1700 it is noted that there are 295 bits r

eceived in error. Determine the bit error rate.

1. 2 x 10-7 2. 2 x 10-10 3. 5 x 10-9 4. 5 x 10-8 Question id : 85268 (Correct + 1.0, Wrong - 0.33)

A block of data consisting of 2048 bits is transmitted between two computers interconnected by 450 m of twistedpair wire. If the transmission rate is 34 kbps determine a, the ratio of propagation delay to trans mission delay.

1. 3.76 x 10-6 2. 376 x 10-6 3. 3.76 x 10-3 4. 37.6 x 10-6 Question id : 85269 (Correct + 1.0, Wrong - 0.33)

The event that will not cause recalculation of the distance vector is

1. Discovery of a long path to a new destination

2. Discovery that a link to a neighbor has gone down

3. Receive a shorter path to an existing destination

4. Discovery of a longer path to an existing destination

Question id : 85270 (Correct + 1.0, Wrong - 0.33)

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

Segment
 Datagram
 Message
 Frame
 Question id : 85271 (Correct + 1.0, Wrong - 0.33)

While transmitting odd-parity coded symbols, the number of zeros in each symbol is

1. Odd

- 2. Even
- 3. A and B both
- 4. Unknown

Question id : 85272 (Correct + 1.0, Wrong - 0.33)

Which organization has authority over interstate and international commerce in the communicat ion field?

1. ITU-T 2. IEEE

- 3. FCC
- 4. ISOC

Question id : 85273 (Correct + 1.0, Wrong - 0.33)

What is common between X.25 Packet switching and Fast Packet Switching

1. In both of them bandwidth is used only when there is something to transmit

2. Both supports high speed data (T1 speed and up)

3. Both supports sharing of the same channel to carry voice, data and video

4. In both of them transmit delays are low enough to handle voice traffic

Question id : 85274 (Correct + 1.0, Wrong - 0.33)

Which one is true about ATM and Packet Switching

1. Both ATM and Packet switching have relatively small size cells

2. Packet Switching has no windowing while ATM has

3. Both have fixed length cells

4. ATM has no error detection on data while Packet Switching has

Question id : 85275 (Correct + 1.0, Wrong - 0.33)

India's Ambassador to united states of America

Mrs. Nirupma Rao
 Mrs. Anupma Rai
 Pradeep Kumar
 Randhiv Singh
 Question id : 85276 (Correct + 1.0, Wrong - 0.33)

Which of the following is newest Nation of the World?

1. North Sudan

- 2. South Sudan
- 3. Sudan
- 4. Lebnan

Question id : 85277 (Correct + 1.0, Wrong - 0.33)

Sauli Niinisto has been recently elected as the President of

Sweden
 Germany
 Finland
 Cheli
 Question id : 85278 (Correct + 1.0, Wrong - 0.33)

Who was the Chief Guest of the India's 63rd Republic Day's celebrations.

Sheikh Hasina, Prime Minister of Bangladesh
 Kamla Persad Bissessor, Prime Minister of Trinidad and Tobago
 Ma-Ying-jeou. President of Taiwan
 Mrs. Yingluk Shinawatra, Prime Minister of Thailand
 Question id: 85279 (Correct + 1.0, Wrong - 0.33)

NRI Kamla Persad Bissessar, Prime Minister of Trinidad and Tobago has her ancestral roots in villages in;

Nalanda, Bihar
 Pushkar, Rajasthan
 Buxar, Bihar
 Hissar, Haryana
 Question id : 85280 (Correct + 1.0, Wrong - 0.33)

A number is smaller than its 4/3 by 17, what is the number ?

1. 51 2. 34 3. 17 4. 68 Question id : 85281 (Correct + 1.0 , Wrong - 0.33)

All artist are whimsical. All drug addicts are whimsical. Some crazy people are drug addict so,

1. Some artist are drug addict.

2. Some artist are not drug addict

3. Some craxy people are whimsical
4. Some crazy people are artist.
Question id : 85282 (Correct + 1.0, Wrong - 0.33)

A Cow has 4 legs & a Hen has 2 legs. If there are a total of 60 legs for a group of Cows & Hens than the confirmed number of Cows & Hens in the group are :

1. 10 Cows, 10 Hens.

- 2. 10 Cows, 15 Hens.
- 3. 15 Cows, 5 Hens.
- 4. Data is insufficient to confirm number of Cows & Hens in the group.