All the Multiple Choice Question and Answer (MCQs) have been compiled from the books of Data Communication and Networking by the well known author behrouz A forouzan.

This Data Communication and Networking – Virtual-Circuit Networks: Frame Relay and ATM multiple choice Questions and Answers (MCQ) PDF covers the below lists of topics.

- 1. Virtual circuit switching Multiple Choice Question and Answer.
- 2. Frame Relay Multiple Choice Question and Answer.
- 3. Asynchronous Transfer Mode (ATM) Multiple Choice Question and Answer.
- 4. User-to-network interface (UNI) Multiple Choice Question and Answer.
- 5. Network-to-network interface (NNI) Multiple Choice Question and Answer.

Practice now to sharpen your concept.

1. ______ is a virtual-circuit wide-area network that was designed in response to demands for a new type of WAN in the late 1980s and early 1990s.

- A. X.25
- B. Frame Relay
- C.ATM
- D. none of the above

2. Frame Relay provides _____

- A. PVCs
- B. SVCs
- C. either (a) or (b)
- D. neither (a) nor (b)

3. VCIs in Frame Relay are called _____.

- A. PVC
- B. SVC
- C. DLCIs
- D. none of the above

4. In Frame Relay, when a ______ is selected, the corresponding table entry is recorded for all switches by the administrator

- A. PVC
- B. SVC
- C. either (a) or (b)
- D. neither (a) nor (b)

5. In Frame Relay, when. ______ is selected, it requires establishing and terminating phases

- A. PVC
- B. an SVC
- C. either (a) or (b)
- D. neither (a) nor (b)
- 6. Frame Relay has _
 - A. only the physical layer
 - B. only the data link
 - C. the physical and data link layers
 - D. the physical, data link, and network layers

7. At the data link layer, Frame Relay uses a protocol that supports _______ control

Downloaded from <u>www.examradar.com</u>

A. flow B. error C. either (a) or (b) D. neither (a) nor (b)

8. In Frame Relay, an address can be _____ bytes

- A. only 2 B. 2 to 3
- C. 2 to 3
- 0.2104
- D. none of the above

9. In Frame Relay, the EA field defines the number of bytes; it is ______in the last byte of the address

- A. 0
- B. 1
- C.2
- D.3

10. To handle frames arriving from other protocols, Frame Relay uses a device called a _____

- A. VOFR
- B. FRAD
- C. MUX
- D. none of the above

Answer key for MCQ SET- 1		
Q-1	Correct Answer : Frame Relay	
Q-2	Correct Answer :either (a) or (b)	
Q-3	Correct Answer :DLCIs	
Q-4	Correct Answer : PVC	

Downloaded from <u>www.examradar.com</u>

Q-5	Correct Answer :an SVC
Q-6	Correct Answer : the physical and data link layers
Q-7	Correct Answer :neither (a) nor (b)
Q-8	Correct Answer :2 to 4
Q-9	Correct Answer :1
Q-10	Correct Answer : FRAD

Virtual-Circuit Networks: Frame Relay and ATM MCQ Set-2

1. Frame Relay networks offer an option called ______ that sends voice through the network.

- A. VOFR
- B. FRAD
- C.MUX
- D. none of the above

2. ______ is the cell relay protocol designed by the corresponding Forum and adopted by the ITU-T

- A. X.25
- B. Frame Relay
- C.ATM
- D. none of the above

3. A ______ is defined as a small, fixed-size block of information A. frame

- B. packet
- . C. cell
- D. none of the above

4. In ATM, a virtual connection is defined by _____

- A. VPI
- B. VCI
- C. DLCI
- D.a combination of (a) and (b)

5. The ATM standard defines _____ layers

- A. two
- B. three
- C. four
- D. five

6. The VPI of a UNI is _____ bits in length

- A. 8
- B. 12
- C.16
- D.24

7. The VPI of an NNI is _____ bits in length

- A. 8
- B. 12
- C.16
- D.24

8. The ATM data packet is a cell composed of _____ bytes

- A.40
- B. 50
- C.52

D.53

9. _____ eliminates the varying delay times associated with different-size packets

- A. X.25
- B. Frame Relay
- C.ATM
- D. all of the above

10. A(n) ______ is the interface between a user and an ATM switch.

- A. UNI
- B. NNI
- C.NNN
- D. None of the above

Answer key for MCQ SET- 2		
Q-1	Correct Answer :VOFR	
Q-2	Correct Answer :ATM	
Q-3	Correct Answer :cell	
Q-4	Correct Answer :a combination of (a) and (b)	
Q-5	Correct Answer : three	
Q-6	Correct Answer :8	
Q-7	Correct Answer :12	
Q-8	Correct Answer :53	
Q-9	Correct Answer :ATM	
Q-10	Correct Answer :UNI	

Virtual-Circuit Networks: Frame Relay and ATM MCQ Set-3

1_____ is the interface between two ATM switches.

- A. UNI
- **B. NNI**
- C.NNN
- D. none of the above

2. In ATM, connection between two endpoints is accomplished through _____

- A. TPs
- B. VPs
- C.VCs
- D. all of the above

3. In ATM, the _____layer accepts transmissions from upper-layer services and maps them into ATM cells

- A. physical
- B. ATM
- C.AAL
- D. none of the above

4. In ATM, the _____ layer provides routing, traffic management, switching, and multiplexing services

- A. physical
- B. ATM
- C.AAL
- D. none of the above

5. In ATM, the _____ layer defines the transmission medium, bit transmission, encoding, and electrical-to-optical transformation

Downloaded from www.examradar.com

A. physical B. ATM layer C. AAL D. none of the above

6. The AAL is divided into ______ sublayers

- A. two
- B. three
- C. four
- D. none of the above

7. In ATM, ______ is for constant-bit-rate data.

- A. AAL1
- B. AAL2
- C. AAL3/4
- D.AAL5

8. In ATM, _____is for short packets A. AAL1 B. AAL2 C. AAL3/4 D. AAL5

9. In ATM, _____ is for conventional packet switching (virtualcircuit approach or datagram approach).

A. AAL1 B. AAL2 C. AAL3/4 D. AAL5

Downloaded from <u>www.examradar.com</u>

10. In ATM, ______ is for packets requiring no sequencing and no error control mechanism.

- A. AAL1
- B. AAL2 C. AAL3/4
- D. AAL5

Answer key for MCQ SET- 3		
Q-1	Correct Answer :NNI	
Q-2	Correct Answer :all of the above	
Q-3	Correct Answer :AAL	
Q-4	Correct Answer :ATM	
Q-5	Correct Answer :physical	
Q-6	Correct Answer :two	
Q-7	Correct Answer :AAL1	
Q-8	Correct Answer :AAL2	
Q-9	Correct Answer :AAL3/4	
Q-10	Correct Answer :AAL5	