

Seat No.	
----------	--

B.C.A. (Part - III) (Semester - V) Examination, April - 2015

COMPUTER NETWORK

(Paper - 5.2)

Sub. Code : 50062

Day and Date : Monday, 13 - 04 - 2015

Total Marks : 80

Time : 11.00 a.m. to 02.00 p.m.

- Instructions :
- 1) Attempt any FOUR questions from Q.1 to Q.6.
 - 2) Question No. 7 is compulsory.
 - 3) Figures to the right indicate full marks.

- Q1) a) Define Computer Network and explain types of Networks. [8]
 b) Explain Modes of Communication in detail. [8]
- Q2) a) Explain wired Transmission Medias in detail. [8]
 b) Explain propagation methods with example. [8]
- Q3) a) What do you mean by protocol? Explain goals of layered protocol. [8]
 b) Explain functions of ISO-OSI reference model. [8]
- Q4) a) What is IP address? Explain characteristics of IP address. [8]
 b) Differentiate circuit switching and Message switching with proper example. [8]
- Q5) a) Explain categories of connectivity devices in detail. [8]
 b) What is routing explain it in detail. [8]
- Q6) a) Explain categories of connectivity devices in detail. [8]
 b) State merit and Demerits of packet Switching. [8]

P.T.O.

Q7) Write Short Notes (Any Two):

[16]

- a) point-to-point network.
- b) TCP/IP protocol
- c) IP address and Characteristics of IP address.

	No.
--	-----

030303

Total Marks: 80

Day and Date: Monday, 13-04-2015

Time: 11:00 a.m. to 02:00 p.m.

Instructions: 1) Attempt any FOUR questions from Q.1 to Q.4.

2) Question No. 7 is compulsory.

3) Figures to the right indicate full marks.

Q1) a) Define Computer Network and explain types of Networks. [8]

b) Explain Model of Communication in detail. [8]

Q2) a) Explain wired Transmission Media in detail. [8]

b) Explain propagation methods with example. [8]

Q3) a) What do you mean by protocol? Explain goals of layered protocol. [8]

b) Explain functions of ISO-OSI reference model. [8]

Q4) a) What is IP address? Explain characteristics of IP address. [8]

b) Differentiate circuit switching and message switching with proper example. [8]

Q5) a) Explain categories of connectivity devices in detail. [8]

b) What is routing explain it in detail. [8]

Q6) a) Explain categories of connectivity devices in detail. [8]

b) State merit and Demerits of packet switching. [8]

C - 213

Total No. of Pages : 2

Seat No.	
----------	--

B.C.A. (Part - III) (Semester - V) (New) Examination, October - 2015
COMPUTER NETWORK (Paper - 503)
Sub. Code : 66417

Day and Date : Tuesday, 27 - 10 - 2015

Total Marks : 80

Time : 03.00 p.m. to 6.00 p.m.

Instructions: 1) Q.No. 8 is compulsory.

2) Solve any four questions from Q.No. 1 to Q.No. 7.

3) All questions carry 16 marks.

Q1) What is switching? Explain packet switching and message switching. [16]

Q2) a) What is IP address? Explain its structure. [8]

b) Write difference between OSI and TCP/IP reference model. [8]

Q3) Describe OSI reference model in detail with diagram. [16]

Q4) a) Explain coaxial cable as a communication channel with diagram. [8]

b) Explain various transmission modes of computer network. [8]

Q5) a) Explain shortest path routing algorithm. [8]

b) What is framing? Explain framing methods. [8]

Q6) a) What is congestion? Explain the need of congestion control. [8]

b) How to detect and correct errors in data link layer? [8]

P.T.O.

Q7) What is multiplexing? Explain FDM and TDM.

[16]

Q8) Write short notes on (Any Four)

[16]

- a) SMTP
- b) Client server architecture.
- c) TCP
- d) Flooding
- e) Components of data communication



Seat No.	
----------	--

B.C.A. (Part - III) (Semester - V) (Revised)**Examination, November - 2016****COMPUTER NETWORK (Paper - 503)****Sub. Code : 66417****Day and Date : Saturday, 12 - 11 - 2016****Total Marks : 80****Time : 2.30 p.m. to 5.30 p.m.**

- Instructions :**
- 1) Q.No. 8 is compulsory.
 - 2) Solve any Four questions from Q. No. 1 to Q. No. 7.
 - 3) All questions carry equal marks.

Q1) What is switching? Explain circuit switching and packet switching. [16]

Q2) a) Explain various design issues of data link layer. [8]

b) Describe domain name system with example. [8]

Q3) Draw neat labeled diagram and explain OSI reference model. [16]

Q4) a) What are the services provided by presentation layer? [8]

b) Explain categories of networks. [8]

Q5) a) Explain any two un-guided transmission media. [8]

b) Describe services provided by session layer. [8]

Q6) a) Explain various components of data communication. [8]

b) What is IP address? Explain characteristics of IP address. [8]

P.T.O.

Q7) Describe parallel and serial transmission modes.

[16]

Q8) Write short notes on: [Any Four]:

[16]

- a) Symmetric key cryptography.
- b) Distance vector routing algorithm.
- c) Wavelength-Division Multiplexing.
- d) Client-server Architecture.
- e) UDP protocol.

N-591

Total No. of Pages : 2

Seat No.	
----------	--

**B.C.A. (Faculty of Commerce) (Part - III) (Semester - V)
(Revised) Examination, April - 2016**

COMPUTER NETWORK

Sub. Code : 66417

Day and Date : Thursday, 21 - 04 - 2016

Total Marks : 80

Time : 11.00 a.m. to 2.00 p.m.

- Instructions :**
- 1) Each question carry 16 marks.
 - 2) Solve any four questions from Q.1 To Q.7.
 - 3) Q.8 is Compulsory.

- 2 Q1) a) What is transmission media? Explain any two of them in detail. [8]
b) Explain different types of computer network. [8]
- 2 Q2) a) What is IP address? Write the characteristics of IP address. [8]
b) Explain data flow of communication. [8]
- Q3) a) Explain the services of session layer. [8]
b) Explain Client server network architecture. [8]
- 1 Q4) a) Explain multiplexing. [8]
2 b) Differentiate between OSI and TCP/IP model with neat diagram. [8]
- 1 Q5) Explain the components of data communication in detail. [16]

P.T.O.

- Q6) a) Explain design issues of network layer. [8]
- b) Explain circuit switching in detail. [8]
- Q7) a) Explain the Primitives of Transport Layer. [8]
- b) Explain transmission modes in detail. [8]
- Q8) Write short notes on following (any four): [16]
- a) SMTP.
- b) Message Switching.
- c) Cryptography.
- d) Micro Wave.
- e) UDP.

B - 319

Total No. of Pages : 2

Seat No.	
----------	--

BCA (Part - III) (Semester - V) Examination, October - 2017

COMPUTER NETWORK (Paper - 503)

Sub. Code : 66417

Day and Date : Tuesday, 24 - 10 - 2017

Total Marks : 80

Time : 10.30 a.m. to 01.30 p.m.

Instructions : 1) Attempt any five questions

2) Each question carries equal marks.

Q1) a) Define Network. Explain Various Components of network in detail. [8]

b) List and Explain different transmission media available in networking. [8]

Q2) a) State and explain Data flows in networking. [8]

b) Explain OSI reference Model in detail. [8]

Q3) a) What is multiplexing? Explain different types multiplexing. [8]

b) Differentiate OSI and TCP/IP reference model in networking [8]

Q4) a) what is cryptography? Explain symmetric and asymmetric key cryptography. [8]

b) Explain various design issues in network layer. [8]

Q5) a) State and explain Transport layer primitives in detail. [8]

b) Explain serial and parallel transmission modes of network. [8]

Q6) a) Explain types of networks. [8]

b) Explain TCP and IP protocol in detail. [8]

P.T.O.

Q7) a) Explain congestion control in network layer.

b) Explain Simple mail transfer protocol in detail.

[8]

Q8) Write short note on (any two)

a) Domain Name System (DNS)

b) Hypertext Transfer file protocol (HTTP)

c) Services provided by session Layer.

d) Routing Algorithm.

[16]



Seat No.	
----------	--

B.C.A. (Faculty of Commerce) (Part - III) (Semester - V)
(Revised) Examination, April - 2017

COMPUTER NETWORK (Paper - 503)

Sub. Code : 66417

Day and Date : Wednesday, 19-04-2017

Total Marks : 80

Time : 11.00 a.m. to 2.00 p.m.

- Instructions :
- 1) Q.No.8 is compulsory.
 - 2) Solve any Four questions from QNo.1 to QNo.7.
 - 3) All questions carry 16 marks.

- \ Q1) Explain various guided and unguided transmission media. [16]
- Q2) a) Explain transport layer primitives. [8]
 b) Explain HTTP and SMTP protocols. [8]
- Q3) What is routing? Explain shortest path and flooding routing algorithms. [16]
- \ Q4) a) What is networking? What are its advantages and disadvantages? [8]
 b) What are the different remote procedure calls? [8]
- Q5) a) Compare OSI and TCP/IP reference model. [8]
 b) What are the services provided by presentation layer? [8]
- Q6) a) Explain different design issues of network layer. [8]
 b) What is switching? Explain working of packet switching technique. [8]
- Q7) Discuss services provided by session layer. [16]
- Q8) Write short notes on : (Any Four) [16]
- a) Telnet.
 - b) Asymmetric key cryptography.
 - c) LAN and MAN.
 - d) Difference between TCP and UDP. 2
 - e) Data flow in communication. 1



SA - 490

Total No. of Pages : 2

Seat No.	
----------	--

B.C.A. (Part - III) (Semester - V) Examination, April - 2018

COMPUTER NETWORK (Revised)

Sub. Code : 66417

Day and Date : Monday, 23 - 04 - 2018

Total Marks : 80

Time : 11.00 a.m. to 02.00 p.m.

Instructions: 1) Each question carry 16 marks.

2) Solve any four questions from Q. 1 To Q. 7.

3) Q. 8 is Compulsory.

Q1) a) Explain data flow of communication. [8]

b) What is computer Network? What are the advantages and disadvantages of Computer Network. [8]

Q2) a) Explain Session Layer. [8]

b) Explain Design issues of Data Link Layer. [8]

Q3) Explain ISO-OSI Reference model in detail. [16]

Q4) a) Explain Client server network architecture. [8]

b) What is transmission media? Explain wired transmission media. [8]

Q5) a) What is IP address? Write the characteristics of IP address. [8]

b) Explain circuit switching with suitable example. [8]

P.T.O.

- Q6) a) What is Cryptography. Explain types of cryptography. [8]
b) Explain routing algorithm of network layer. [8]

- Q7) a) Explain Transmission modes in detail. [8]
b) Explain types of network. [8]

Q8) Write short notes on following (any four) [16]

- a) Domain Name System
- b) FTP
- c) Time-Division Multiplexing
- d) TCP
- e) Satellite

