REV-00 BCA/25/30

BCA Third Semester Computer Networks (BCA- 303)

Duration: 3Hrs.

Part-A (Objective) =20 Part-B (Descriptive) =50 Full Marks: 70

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

2016/12

Answer any *four* from *Question no.* 2 to 8 *Question no.* 1 is compulsory.

1. Describe different types of server. Write the differences between broadband						
ar	nd baseband transr	nission.			7+3=10	
2. W	2. What is wireless transmission? Define different types of wireless					
tra	ansmission. Write	about electroma	gnetic spectrum.		2+3+5=10	
3. Describe TCP/IP reference model. Compare it with OSI reference model.						
					7+3=10	
4. W	rite about the 5 di	fferent devices u	used in networkir	ng	10	
5. What is IP addressing? How can we classify the different categories of IP						
ac	ldressing?				5+5=10	
6. What is computer network? Define the different topologies used in network.						
Write about the advantages of guided media over the unguided media. 10						
7. Describe the firewall security. Define circuit switching with advantages and						
di	sadvantages.				5+5	
8. Write short notes on any 2 of the following $5+5=10$						
b)	Foken ring	b)IEEE	c)ALOHA	d)UDP	e)LAN	

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Duration: 20 minutes

(PART A - Objective Type)

I. Choose the correct answer:

- 1.Two devices are in network if
 - a) a process in one device is able to exchange information with a process in another device
 - b) a process is running on both devices
 - c) PIDs of the processes running of different devices are same
 - d) none of the mentioned

2. For error detection ______ is used by higher layer

protocols(TCP/IP)

network is called

a) Flow control	b) Data control
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c) Data management d) Flow management

5. The process on each machine that communicate at a given layer is called _____

- a) UDP process b) Internet process
- c) Server technology d) Peer-to-peer process

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Marks - 20

6. The amount of data that can be carried from one point to another in a given	time						
period is called							
a) Scope b) Capacity c) Bandwidth d)Limitatio	n						
7. The controlling access to a network by analyzing the incoming and outgoing	5						
packets is called							
a) IP Filtering b) Data Filtering							
c) Packet Filtering d) Firewall Filtering							
8. Communication channel is shared by all the machines on the network in							
a) broadcast network b) unicast network	b) unicast network						
c) multicast network d) none of the mentioned							
9. In computer network nodes are							
a) the computer that originates the data b) the computer that routes the	a) the computer that originates the data b) the computer that routes the data						
c) the computer that terminates the data d) all of the mentioned							
10. Bluetooth is an example of							
a) personal area network b) local area network	b) local area network						
c) virtual private network d) none of the mentioned	d) none of the mentioned						
1. Network congestion occurs							
a) in case of traffic overloading b) when a system terminates	b) when a system terminates						
c) when connection between two nodes terminates							
d) none of the mentioned	d) none of the mentioned						
12. Communication between a computer and a keyboard involves							
transmission							
a) Automatic b) Half-duplex							
c) Full-duplex d) Simplex							
13. The is the physical path over which a message travels							
a) Path b) Medium c) Protocol d) Ro	ute						

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14. Which address identifies a process on a host?						
a) physical address	b) logical addr	b) logical address				
c) port address	d) specific add	d) specific address				
15. OSI stands for						
a) open system interconn	nection	b) operating s	ystem interface			
c) optical service implem	nentation	d) none of the	d) none of the mentioned			
16. The OSI model has layers.						
a) 4 b)	5	c) 6	d) 7			
17. TCP/IP model does not have layer but OSI model have this layer.						
a) session layer	b) presentation	n layer				
c) application layer	d) both (a) and	(b)				
18. Which layer links the network support layers and user support layers						
a) session layer	b) data link lay	ver				
c) transport layer	d) network lay	er				
19. TCP/IP model was developed the OSI model.						
a) prior to	b) after					
c) simultaneous to	d) none of the	mentioned				
20. Which layer is responsible for process to process delivery?						
a) network layer	b) transport lay	ver				
c) session layer	d) data link lay	rer				
