## (Model Paper)

C-20, EC-505

## State Board of Technical Education and Training, A. P

# Diploma in Electronics and Communication Engineering (DECE)

### **V** Semester

## **Subject Name: Data Communication and Computer Networks**

Sub Code: EC - 505

Time: 90	minutes Unit Test I	Max.Marks:40		
<u> </u>	Part-A	16Marks		
Instructio	ons: (1) Answer all questions.			
	(2) First question carries four marks, each question of remaining	carries <b>three</b> marks		
1. a)	) Write any one antivirus software name available in market	(CO2)		
b)	) What is the full form of NTFS	(CO1)		
c)	) What is the full form of USB	(CO1)		
d)	) What is the full form of FAT	(CO1)		
2. St	tate the need for data communication networking	(CO1)		
3. Li	ist the three types of switching techniques used in networking	(CO2)		
4. St	tate the need for protocols in computer networks.	(CO2)		
5. D	Define the terms Internet and Intranet.	(CO3)		
	Part-B	3×8=24		
Instructio	ons: (1) Answer all questions.			
	(2) Each question carries eight marks			
	(3) Answer should be comprehensive and the criterion for valuation	ion		
	is the content but not the length of the answer.			
6. (a	a) Draw the ISO: OSI 7-layer architecture and State the functions of each or	layer. (CO1)		
(b	b) Draw TCP/IP reference model and State the functions of each layer.	(CO1)		
7. (a	a) Explain CSMA/CD, CSMA/CA.	(CO2)		
	or			
(b	b). Explain the frame format for Ethernet and State the different fields ir	n it		
		(CO2)		
8. (a	a) Explain classful addressing in IPv4.	(CO3)		
or				
(b	b)Distinguish among cut through, store-and-forward and adaptive switch	n mechanisms. (CO3)		

## (Model Paper)

C-20, EC-505

## State Board of Technical Education and Training, A. P

# **Diploma in Electronics and Communication Engineering (DECE)**

## **V** Semester

### **Subject Name: Data Communication and Computer Networks**

Sub Code: EC - 505

Sub Code: EC - 505	
tes Unit Test II	Max.Marks:40
Part-A	16Marks
(1) Answer all questions.	
(2) First question carries <b>four</b> marks, each question of remaining carr	ies <b>three</b> marks
nat is the full form of FTP	(CO3)
at is the full form of UDP	(CO3)
at is the full form of WLAN	(CO4)
at is the full form of DNS	(CO4)
are the features of TCP and UDP	(CO3)
e advantages of WLAN.	(CO4)
···	(CO4)
the term Cyber Security.	(CO5)
Part-B	3×8=24
(1) Answer <b>all</b> questions.	
(2) Each question carries eight marks	
(3) Answer should be comprehensive and the criterion for valuation	
is the content but not the length of the answer.	
plain the working of Web server	(CO3)
or	
lain the internal architecture of ISP	(CO3)
plain the topology of wireless LAN and its frame format (IEEE 802.11)	(CO4)
<del>o</del> .	(CO4)
<i>5.</i>	, ,
plain the active and passive attacks in Cyber-attacks.	(CO5)
or	
scribe the five predominant laws in Information Technology Act, 2000.	(CO5)
-000-	
	Part-A  (1) Answer all questions. (2) First question carries four marks, each question of remaining carriat is the full form of FTP at is the full form of UDP at is the full form of DNS are the features of TCP and UDP a davantages of WLAN. the applications of Bluetooth technology. The term Cyber Security.  Part-B  (1) Answer all questions. (2) Each question carries eight marks (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.  Polain the working of Web server or lain the internal architecture of ISP  Polain the topology of wireless LAN and its frame format (IEEE 802.11) or scribe the features of Zigbee Technology and its topologies.  Part-B  Part-B  (1) Answer all questions. (2) Each question carries eight marks (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.  Polain the working of Web server or  Join the topology of wireless LAN and its frame format (IEEE 802.11) or scribe the features of Zigbee Technology and its topologies.  Polain the active and passive attacks in Cyber-attacks.  Or  Scribe the five predominant laws in Information Technology Act, 2000.

#### MODEL PAPER

## **BOARD DIPLOMA EXAMINATIONS**

# C-23, EC-505, Data Communication and Computer Networks V SEMESTER

## SEMESTER END EXAMINATION

TIME:3 HOURS	SEMESTER END EXAMINATION	MAX MARKS:80
	Part-A	10×3=30
Instructions:	(1) Answer <b>all</b> questions.	
	(2) Each question carries <b>three</b> marks	
	(3) Answer should be brief and straight to the point and shall not e	xceed
	five simple sentences.	
	he need for data communication networking	(CO1)
	ferent network topologies.	(CO1)
	e three types of switching techniques used in networking	(CO2)
	he need for protocols in computer networks.	(CO2)
	he use of repeater/ hub	(CO2)
	the terms Internet and Intranet.	(CO3)
	on the role of DNS server	(CO4)
	e advantages of WLAN. he fundamentals of Cyber Security.	(COF)
	e software attacks in Cyber-attacks.	(CO5) (CO5)
10. LIST THE	Part-B	5×10=50
Instructions:	(1) Answer all questions.	3.10-30
	(2) Each question carries <b>TEN</b> marks	
	(3) Answer should be comprehensive and the criterion for valuatio	n
	is the content but not the length of the answer.	
11. Draw t	he ISO: OSI 7-layer architecture and State the functions of each laye	r. (CO1)
12. Explair	the frame format for Ethernet and State the different fields in it.	(CO2)
13. Disting	uish among cut through, store-and-forward and adaptive switch	
mecha	nisms.	(CO3)
14. Explair	the connectivity of systems using TCP (Three-way hand shake)	(CO3)
15. Explair	n the internal architecture of ISP.	(CO3)
16. Explair	the topology of wireless LAN and its frame format (IEEE 802.11)	(CO4)
17. Descril	be the features of Zigbee Technology and its topologies.	(CO4)
18. Explair	the active and passive attacks in Cyber-attacks.	(CO5)

\*\*\*