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BCS-061

BACHELOR OF COMPUTER APPLICATIONS (BCA) (Revised)

Term-End Examination

DD563 December, 2018

BCS-061 : TCP/IP PROGRAMMING

Time : 2 hours

Maximum Marks : 60

Note : Question no. 1 is **compulsory**. Answer any **three** questions from the rest.

1.	(a)	What is the significance of ARP and RARP Protocols ?	6
	(b)	Explain the system calls used for data transfer.	6
	(c)	What is the purpose of Pipes in Unix ?	4
	(d)	What is the role of POP Protocol ?	4
	(e)	What are the advantages of UDP over TCP ?	4
	(f)	Define the following :	6
		(i) Port number	
		(ii) MAC address	
		(iii) IP address	

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P.T.O.

- 2. (a) Explain IP datagram format in detail.
 - (b) Why does an IP datagram have a variable size header ? Explain how an IP datagram is hit to its death.
- **3.** (a) Write a C language program in Unix to show the use of the following system calls :
 - (i) Bind
 - (ii) Connect
 - (b) What is unicasting ? Differenciate between broadcasting and multicasting.

4. (a) Explain about the following Unix commands :

- (i) **ls**
- (ii) cat
- (iii) mkdir
- (iv) cd
- (v) mv
- (b) What is the 'Quality of Service' (QoS) in Internet protocol ?

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5. Write short notes on the following :

 $4 \times 2\frac{1}{2} = 10$

- (a) Byte Order Conversion
- (b) Network File System
- (c) Distance Vector Routing
- (d) HTTP

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