Q. P. Code: 38761

K.G.C.E EXAM KARJAT, RAIGAD

[Time: Three Hours]

[Marks: 80]

Please check whether you have got the right question paper

N.B.:

1. Question number **ONE** is compulsory
2. Attempt any **THREE** questions from question 2 to 6
3. Figures to the right indicate full marks.

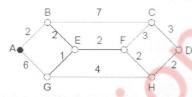|		
Q. 1.	Answer any **FOUR** from the following	20
a)	What are the routing devices in computer network? Explain each of them in brief.	
b)	Compare lossy with lossless data compression technique.	
c)	List five nonproprietary Internet applications and the application-layer protocols that they use.	
d)	Examine the advantages of LAN, WAN and MAN.	
e)	Examine problems in Application Layer.	

Q. 2 a)	Explain TCP network model for network communication. Hence, choose a layer which is responsible for routing of packets.	10
Q. 2 b)	Explain Client-Server communication architecture.	10

Q. 3 a)	Create a shortest path between node A and D	10

Q. 3 b)	What is IP? Explain IPv6 Header.	10

Q. 4 a)	Justify that the Stop-and-Wait protocol is not good for network communications.	10
Q. 4 b)	Justify Hamming Code is error detection and correction code.	10

Q. 5 a)	What is MACA? Explain by giving suitable example.	10
Q. 5 b)	What is carrier sense? Explain any one carrier sense protocol.	10

Q. 6.	Answer any **FOUR** from the following	20
a)	Examine different types of ALOHA.	
b)	What is broader gateway protocol (BGP) Explain BGP in brief.	
c)	Why do HTTP, FTP, SMTP, and POP3 run on top of TCP rather than on UDP?	
d)	Compare various data flow control techniques.	
e)	What is classful addressing? Explain difference classes of IP address.	

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