2019

MSc

4th Semester Examination

COMPUTER SCIENCE

PAPER - COS-402(M2)

Full Marks: 25

Time: 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their

Own words as far as practicable.

Illustrate the answers wherever necessary.

Group- A

1. Answer any <i>TWO</i> questions:	2x2
a) What is mobile computing?	
b) What is subnet?	
c) Write the functions of CRC field in Ethernet frame.	
d) What is multipath propagation of Signal?	
Group- B	
2. Answer any TWO Questions:	2x4
a) Find data (transmission) rate that can be used at each carrier frequency Each time slot carries 324 bits.	? Where
 There are 6 timeslots/ frame. 1 frame is 40 ms. 	
b) Describe the method of subnet Segmentation for IPv4.	
 c) Write exponential Backoff algorithm for finding waiting time for handlin in multi- access link. 	g collision
d) Write short note on following topics (Any ONE)	
i) Reuse factor	
ii) GSM	
iii) MAC Vs Multiplexing	
iv) Challenges in mobile computing	

Group-C

3.	Answer	any	ONE	question,
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1x8

a) Write the functionalities of ALOHA.
 Write the differences between ALOHA and slotted ALOHA.
 Write the applications of slotted ALOHA.

4+2+2

b) What is CSMA? Write different types of CSMA schemes. Describe working principles of CSMA/CD. 2+2+4

[INTERNAL ASSESMENT - 5]