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MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL

A Constituent Institution of Manipal University

SEVENTH SEMESTER B.TECH. (INSTRUMENTATION AND CONTROL ENGG.)

END SEMESTER EXAMINATIONS, DEC - 2017

SUBJECT: COMPUTER NETWORK & PROTOCOL [ICE - 4017]

Duration: 3 Hour

Max. Marks:50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Missing data may be assumed and draw diagrams wherever necessary

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|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1A | Define a subnet and explain packet switched subnet | 3 |
| 1B | Explain the model which provides reliable connection-oriented protocol for transmission | 5 |
| 1C | Define cloud computing. What are the two main disadvantages of a cloud? | 2 |
| 2A | Describe the different types of connecting devices that are mapped to different layers of an internet model | 5 |
| 2B | What is the need for a mask? State its significance in class full and classless addressing with examples | 5 |
| 3A | Explain the seven layers of virtualization with neat diagram | 6 |
| 3B | Differentiate between the timers in RIP and IGRP | 4 |
| 4A | Design the routing table for router R1 in Fig. 4A using classless addressing. Find the mask address for each network address and include it in design | 4 |
| 4B | In context to cloud computing, briefly explain SaaS, PaaS and IaaS. | 4 |
| 4C | Differentiate between distance vector and link state routing protocols | 2 |
| 5B | Contrast between Distance storage vector and link storage vector | 3 |
| 5C | Elaborate all the key property of an virtual machine with an example | 7 |

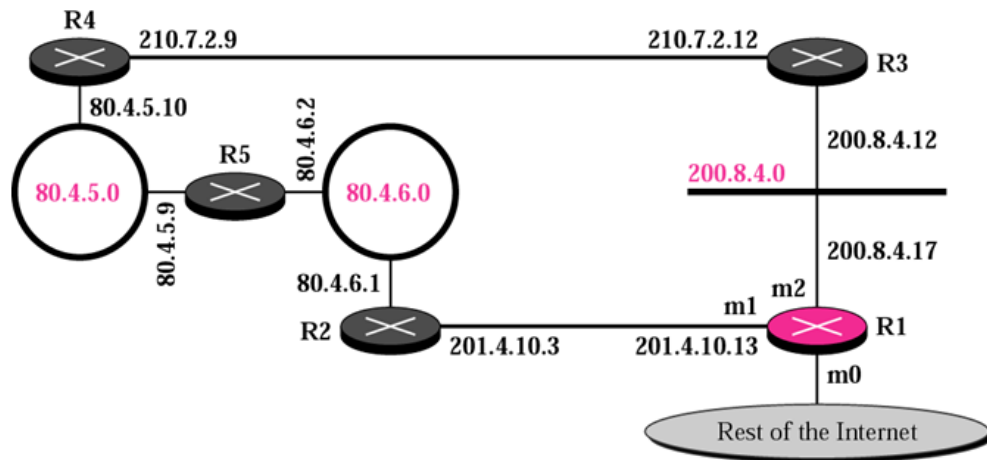


Fig. 4A
