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By K B Hemanth Raj

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COMPUTER NETWORKS

[As per Choice Based Credit System (CBCS) scheme]

(Effective from the academic year 2017 -2018)

SEMESTER – V

Subject Code **17CS52**   IA Marks **40**

Number of Lecture Hours/Week **04**   Exam Marks **60**

These Questions are being framed for helping the students in the "FINAL Exams" Only (Remember for Internals the Question Paper is set by your respective teachers). Questions may be repeated, just to show students how VTU can frame Questions.

- **ADMIN**

Module 2

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1. Elaborate the three-way handshaking in TCP. (5-Marks) (3a) (Dec.2017/Jan.2018)

2. Discuss Go-Back N protocol. (6-Marks) (3b) (Dec.2017/Jan.2018)

3. Explain the connection-oriented multiplexing and de-multiplexing. (5-Marks) (3c) (Dec.2017/Jan.2018)

4. State congestion and discuss the cause of congestion. (4-Marks) (4a) (Dec.2017/Jan.2018)

5. With a neat diagram, explain the TCP segment structure. (8-Marks) (4b) (Dec.2017/Jan.2018)

6. Suppose that two measured sample RTT values are 106ms and 120ms, Compute:

i) Estimate RTT after each of these sample RTT value is obtained. Assume α=0.125 and estimate RTT is 100msec just before first of the samples obtained.
ii) Compute DevRTT

Assume β = 0.25 and DevRTT was 5 msec before first of these samples are obtained. (4-Marks) (4c) (Dec.2017/Jan.2018)

7. Describe the various field of UDP segment. Explain how Checksum is calculated. (8-Marks) (3a) (June/July 2018)

8. Describe rdt 2.0 protocol. (8-Marks) (3b) (June/July 2018)

9. With a neat sketch, explain the TCP segment and its services. (8-Marks) (4a) (June/July 2018)

10. Explain how connection is established and tear down in TCP. (8-Marks) (4b) (June/July 2018)

11. Explain Sender's view of sequence numbers and its operation in Goback N protocol. (8-Marks) (3a) (Dec.2018/Jan.2019)

12. Draw TCP segment structure and explain. (8-Marks) (3b) (Dec.2018/Jan.2019)

13. Explain 3-way handshake and closing a TCP connection. (8-Marks) (4a) (Dec.2018/Jan.2019)

14. Explain the causes and costs of congestion. (8-Marks) (4b) (Dec.2018/Jan.2019)

ANSWER SCRIP FOR THESE QUESTIONS WILL BE UPLOADED ASAP
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THANK YOU