



WINTER – 2019 EXAMINATION
MODEL ANSWER

Subject: Advanced Computer Network

Subject Code: 22520

Important Instructions to examiners:

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more importance (Not applicable for subject English and Communication Skills).
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.

Q. No.	Sub Q.N.	Answer	Marking Scheme																					
1.	(a) Ans.	Attempt any FIVE of the following: Differentiate between IPv4 and IPv6. (any two) <table border="1" style="width: 100%;"><thead><tr><th>Sr. No.</th><th>IPv4</th><th>IPv6</th></tr></thead><tbody><tr><td>1</td><td>IPv4 addresses are 32 bits i.e. 4 bytes length</td><td>IPv6 addresses are 128 bits i.e. 16 bytes length</td></tr><tr><td>2</td><td>Header length is 20 bytes</td><td>Header length is 40 bytes</td></tr><tr><td>3</td><td>Checksum is available in header</td><td>No Checksum in header</td></tr><tr><td>4</td><td>IPv4 allows 5 different classes of IP address</td><td>IPv6 allows storing an unlimited of IP address</td></tr><tr><td>5</td><td>No packet flow identification</td><td>Packet flow identification is available</td></tr><tr><td>6</td><td>Limited addresses</td><td>Larger address space</td></tr></tbody></table>	Sr. No.	IPv4	IPv6	1	IPv4 addresses are 32 bits i.e. 4 bytes length	IPv6 addresses are 128 bits i.e. 16 bytes length	2	Header length is 20 bytes	Header length is 40 bytes	3	Checksum is available in header	No Checksum in header	4	IPv4 allows 5 different classes of IP address	IPv6 allows storing an unlimited of IP address	5	No packet flow identification	Packet flow identification is available	6	Limited addresses	Larger address space	10 2M <i>Any two points 1M each</i>
Sr. No.	IPv4	IPv6																						
1	IPv4 addresses are 32 bits i.e. 4 bytes length	IPv6 addresses are 128 bits i.e. 16 bytes length																						
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5	No packet flow identification	Packet flow identification is available																						
6	Limited addresses	Larger address space																						
	(b) Ans.	State the four advantages of IPv6.	2M																					

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Prof. Anmol D. Ganer



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