

# INFORMATION TECHNOLOGY MODEL ANSWER PAPER

## All Semester & All Years



MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION  
(Autonomous)  
(INCISE) - 1963 - 2017 Centennial

SUBJECT - DATA COMMUNICATION  
MODEL ANSWER

Subject: Advanced Computer Network

Subject Code: 22226

### Important Instructions to candidates

- The answers should be constructed by any words and use as much as word as possible for word answers where.
- The model answer and the answer written by candidate may vary but the candidate may try to score the understanding level of the candidate.
- The language given both in question and in answer should not be given more important than applicable to subject English word communication (ENGL).
- When answering figures, candidate may give credit for principal component followed by the figure. The figure shown by candidate and model answer may vary. The candidate may give credit for the candidate figure shown.
- Candidate may be given step mark for sequential problems. In some cases, the correct answer value may vary and there may be some difference in the candidate's answer and model answer.
- In case of some questions, credit may be given for judgment on point of interest of interest answer based on candidate's understanding.
- In the programming language papers, credit may be given to any other program based on equivalent concept.

Q No.	Ans.	Answer	Marking Scheme																		
1.	Ans.	<p>Answer any THREE of the following: Differentiate between IPv4 and IPv6 (any two)</p> <table border="1"> <thead> <tr> <th>Sl. 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. Router length is 30 bytes.</td><td>IPv4 addresses are 128 bits i.e. 16 bytes length. Router length is 140 bytes.</td></tr> <tr> <td>2.</td><td>Checksum is available in IPv4.</td><td>No Checksum in IPv6.</td></tr> <tr> <td>3.</td><td>IPv4 allows 1 address reserved IP address.</td><td>IPv6 allows many reserved IP address.</td></tr> <tr> <td>4.</td><td>No packet size limitation.</td><td>Packet size limitation is available.</td></tr> <tr> <td>5.</td><td>Unicast address.</td><td>Unicast address is not available.</td></tr> </tbody> </table>	Sl. No.	IPv4	IPv6	1.	IPv4 addresses are 32 bits i.e. 4 bytes length. Router length is 30 bytes.	IPv4 addresses are 128 bits i.e. 16 bytes length. Router length is 140 bytes.	2.	Checksum is available in IPv4.	No Checksum in IPv6.	3.	IPv4 allows 1 address reserved IP address.	IPv6 allows many reserved IP address.	4.	No packet size limitation.	Packet size limitation is available.	5.	Unicast address.	Unicast address is not available.	<p>10 2/5</p> <p>Ans for question 10 marks</p>
Sl. No.	IPv4	IPv6																			
1.	IPv4 addresses are 32 bits i.e. 4 bytes length. Router length is 30 bytes.	IPv4 addresses are 128 bits i.e. 16 bytes length. Router length is 140 bytes.																			
2.	Checksum is available in IPv4.	No Checksum in IPv6.																			
3.	IPv4 allows 1 address reserved IP address.	IPv6 allows many reserved IP address.																			
4.	No packet size limitation.	Packet size limitation is available.																			
5.	Unicast address.	Unicast address is not available.																			
2.	Ans.	<p>Write the four advantages of IPv6.</p>	20																		

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