

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, MAY 2019

Course Code: EE468
Course Name: Computer Networks

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 5 marks.

Marks

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|---|---|-----|
| 1 | What are the design issues to be considered while deciding the layers of a network? | (5) |
| 2 | Explain with diagrams the working of ALOHA protocol. | (5) |
| 3 | What is count to infinity problem in Distance Vector Routing? | (5) |
| 4 | Enlist the different transport layer service primitives. | (5) |
| 5 | Compare TCP and UDP. | (5) |
| 6 | Write a short note on Remote Procedure Call (RPC). | (5) |
| 7 | What are the main elements of an email system? | (5) |
| 8 | What is a URL? What are its components? | (5) |

PART B

Answer any two full questions, each carries 10 marks.

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| 9 | Explain in detail the TCP/IP model. | (10) |
| 10 | Explain the working of IEEE 802.11 wireless LAN with suitable diagrams. | (10) |
| 11 | a) 'Process to Process delivery' is the duty of transport layer. Justify this statement. | (5) |
| | b) What are the assumptions to be considered for dynamic channel allocation? | (5) |

PART C

Answer any two full questions, each carries 10 marks.

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|----|---|------|
| 12 | Explain Dijkstra's shortest path routing algorithm with a proper example. | (10) |
| 13 | a) How is connection establishment performed in transport layer? | (5) |
| | b) How is a connection released? | (5) |
| 14 | a) Explain flooding algorithm. | (5) |
| | b) Explain the need of multiplexing in transport Layer. | (5) |

PART D

Answer any two full questions, each carries 10 marks.

- 15 a) Draw and explain UDP datagram format. (8)
b) Enlist any 2 internet applications which run on UDP. (2)
- 16 Explain in detail DNS Namespace and hierarchy. (10)
- 17 a) Describe in detail the sliding window protocol implemented in TCP. (5)
b) Define the following terms:
- i) WebPages
 - ii) Hyperlink (5)
 - iii) Browser
 - iv) Hypertext
 - v) URL
