

FACULTY OF ENGINEERING

B.E. 3/4 (CSE) II – Semester (Main & Backlog) Examination, May / June 2018

Subject: Computer Networks

Max.Marks: 75

Time: 3 Hours

Note: Answer all questions from Part A & any five questions from Part B.

PART – A (25 Marks)

- 1 Define flooding.
- 2 How the OSI layers are grouped.
- 3 How networks differ? Explain.
- 4 Define tunneling.
- 5 What are subnets?
- 6 What are the service primitives?
- 7 Define application layer.
- 8 Define FTP.
- 9 What is DNS?
- 10 Explain socket options.

PART – B (5x10 = 50 Marks)

- 11 a) Discuss OSI reference model in detail.
b) Explain TCP architectures.
- 12 a) What is routing algorithm? Explain flow-based algorithm.
b) Discuss distance vector and link state.
- 13 a) Explain IP protocol in detail.
b) Discuss CIDR.
- 14 a) Define flow control in detail.
b) Explain the TCP segment header.
- 15 a) Discuss the transmission policy.
b) Explain SNMP in detail.
- 16 a) Discuss resource records and HTTP.
b) What are the advanced socket system calls? Explain.
- 17 a) Discuss the input / output multiplexing.
b) Explain internet super server.

FACULTY OF ENGINEERING

BE 3/4 (CSE) II- Semester (New) (Supplementary) Examination, December, 2017
Subject: COMPUTER NETWORKS

Time: 3 hours

Max. Marks: 75

*Note : Answer all questions from Part-A & Any Five Questions from Part-B.***PART – A (25 MARKS)**

- | | | |
|----|---|---|
| 1 | Discuss IP Architectures. | 3 |
| 2 | What are the design issues | 2 |
| 3 | What is Tunneling | 3 |
| 4 | Explain CIDR | 2 |
| 5 | Define Buffering | 3 |
| 6 | Define the TCP Protocol | 2 |
| 7 | What is SNMP | 3 |
| 8 | Define Multimedia | 2 |
| 9 | List the Elementary socket system calls | 3 |
| 10 | What are the signals | 2 |

PART – B (50 MARKS)

- | | | |
|-----|--|---|
| 11 | a) Explain the duties of Network Layer. | 5 |
| | b) What is congestion control? Discuss the general principles? | 5 |
| 12 | a) Discuss the IP protocol in detail. | 5 |
| | b) Explain the Gateway routing protocols | 5 |
| 13 | a) Discuss the TCP service model | 5 |
| | b) What are the performance issues list | 5 |
| 14 | a) Explain socket address | 5 |
| | b) Discuss Asynchronous I/O | 5 |
| 15 | a) Discuss DNS name space | 5 |
| | b) Explain SMTP and MIME | 5 |
| 16 | a) Define multiple ring | 4 |
| | b) Explain crash recovery in detail | 6 |
| 17. | a) Discuss congestion control in virtual circuit | 5 |
| | b) Explain Quality of Service (QoS) | 5 |

FACULTY OF ENGINEERING
B.E 3/4 (CSE) II – Sem (Old) Examination, December, 2017
Subject : Computer Networks

Time: 3 Hours

Max. Marks: 75

Note: Answer All Questions From Part-A & Answer Any five Questions From Part-B.

Part - A

- | | |
|---|---|
| 1. What the use of resource sharing? | 3 |
| 2. What is the technique used for preventing from impersonating people on the internet? | 2 |
| 3. List out the various services offered by sessions | 3 |
| 4. Define Access point and what is the use of it? | 2 |
| 5. Define socket | 2 |
| 6. What is stub and marshalling | 3 |
| 7. Abbreviate ICANN and its usage | 3 |
| 8. What is mail submission | 2 |
| 9. What is the difference between Symmetric and asymmetric key? | 3 |
| 10. What is the use of Digital signatures? | 2 |

Part - B

- | | |
|---|---------------------|
| 11. Write short notes on | |
| A PAN | (2 ^{1/2}) |
| B LAN | (2 ^{1/2}) |
| C WAN | (2 ^{1/2}) |
| D Man | (2 ^{1/2}) |
| 12. Elaborate on ARP (Address Resolution Protocol) Clearly and its advantages | 10 |
| 13. a) Discuss on Input output multiplexing | 6 |
| b) Write Short notes on Son RPC | 4 |
| 14. a) Explain briefly about MIME. | 6 |
| b) Discuss on name servers | 4 |
| 15. How secure connections can be achieved using SSL. | 10 |
| 16. Write short notes on | |
| a) Authentication using herberos | 6 |
| b) Fragmentation | 4 |
| 17. Elaborate the ISO-OSI reference models with neat diagram | 10 |

Code No. 3480 / N

FACULTY OF ENGINEERING**B.E. 3/4 (CSE) II – Semester (New) (Main) Examination, May 2017****Subject: Computer Networks****Time: 3 Hours****Max.Marks: 75****Note: Answer all questions from Part A and any five questions from Part B.****PART – A (25 Marks)**

- 1 Define Jitter control. (2M)
- 2 Write functionalities of Transport layer. (3M)
- 3 What is Autonomous System? (2M)
- 4 What is the purpose of ARP? (3M)
- 5 What is the idea behind RPC? (2M)
- 6 Draw the diagram for TCP three-way handshake. (3M)
- 7 Write built-in HTTP request methods. (3M)
- 8 What is the purpose of Telnet? (2M)
- 9 Distinguish between synchronous I/O and asynchronous I/O. (2M)
- 10 Write significance of Out-of-Band data. (3M)

PART – B (5x10 = 50 Marks)

- 11 a) Explain similarities and differences between ISO-OSI and TCP/IP architecture. (4M)
- b) Illustrate Broadcast and Multicast routings. (6M)
- 12 a) A router has just received the following new IP addresses: 57.6.96.0/21, 57.6.104.0/21, 57.6.112.0/21, and 57.6.120.0/21. If all of them use the same outgoing line, can they be aggregated? If so, to what? If not, why not? (4M)
- b) Explain Packet Fragmentation with neat diagram. (6M)
- 13 a) Describe RTP (Real-Time Transport Protocol). (5M)
- b) Illustrate TCP Timer management. (5M)
- 14 a) Explain SNMP in detail. (5M)
- b) Distinguish IMAP and POP3. (5M)
- 15 Illustrate Elementary socket system calls. (10M)
- 16 a) Explain RSVP (Resource Reservation Protocol) with neat diagram. (5M)
- b) Discuss Tunneling with neat diagram. (5M)
- 17 Write short notes on: (3M)
- a) Multiplexing in Transport layer (3M)
- b) FTP (3M)
- c) Socket address. (4M)

Code No. 5193

FACULTY OF ENGINEERING

R.E. 3/4 (CSE) II Semester (Main) Examination, May / June 2016

Subject: Computer Networks

Time: 3 Hours

Max.Marks: 75

*Note: Answer all questions from Part A. Answer any five questions from Part B.***PART - A (25 Marks)**

1. Define Computer Network. (2M)
2. Show the OSI layers are grouped? (3M)
3. Compare connection oriented and connectionless service. (3M)
4. What is a bucket? (2M)
5. What is Jitter? (2M)
6. What is purpose of Subnetting? (2M)
7. What are factors of Congestion Control? (2M)
8. Define QOS. (2M)
9. Write the difference between symmetric key and asymmetric key (2M)
10. What is the purpose of the DNS? (3M)

PART - B (5x10 = 50 Marks)

11. a) Explain the duties of Network Layer. (5M)
b) What is the difference between Transport Layer and Network Layer? Discuss. (1M)
12. a) What is Routing? Why is adaptive routing superior to non-adaptive routing? (4M)
b) Explain the concepts of Link State routing Algorithm. (6M)
13. Explain the elements of Transport Layer. (10M)
14. a) Explain about OSI in detail. (5M)
b) Explain the IP protocol. (5M)
15. Explain TCP and UDP header format. (10M)
16. Write about RSA in detail with an example. (10M)
17. Write short notes on
a) Fragmentation (3M)
b) Digital Signature (3M)
c) Secure Socket Layer in web security (4M)

FACULTY OF ENGINEERING**B.E. 3/4 (CSE) II – Semester (Suppl.) Examination, November / December 2016****Subject: Computer Networks****Time: 3 Hours****Max.Marks: 75****Note: Answer all questions from Part A. Answer any five questions from Part B.****PART – A (25 Marks)**

- 1 What is the purpose of Layering in Networks? (2M)
- 2 What is Routing? (2M)
- 3 What is Digital Signature? (3M)
- 4 What is a Socket? (2M)
- 5 What are the differences between Networking and Internetworking? (3M)
- 6 What is purpose of Subsetting? (2M)
- 7 What is Jitter? (2M)
- 8 What is the difference between Leaky Bucket Algorithm and the Token Bucket Algorithm? (3M)
- 9 What are the factors of Congestion Control? (3M)
- 10 How is the secret key different from private key? Justify. (3M)

PART – B (5x10 = 50 Marks)

- 11 Draw and Explain TCP/IP Reference Model. (10M)
- 12 a) Why is adaptive routing superior to non-adaptive routing? (3M)
b) Explain how a Link State routing Algorithm works with an example. (7M)
- 13 a) List and explain about Socket System Calls. (7M)
b) Discuss about out of band data. (3M)
- 14 a) Explain about CSFE in detail. (5M)
b) Write the TCP header format. (5M)
- 15 Write about DES Algorithm in detail with a neat diagram. (10M)
16. Explain DNS in detail. (10M)
- 17 Write short notes on:
a) Tunneling (3M)
b) IP Protocol (3M)
c) Secure Socket Layer in web security (4M)

Code No. 6366

FACULTY OF ENGINEERING
B.E. 3/4 (CSE) II – Semester (Main) Examination, May 2014

Subject : Computer Networks

Time : 3 hours

Max. Marks : 75

Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B.
PART – A (25 Marks)

- | | |
|--|---|
| 1. Define Computer Network. | 2 |
| 2. What is Routing? | 2 |
| 3. What is cryptography? | 2 |
| 4. Define out of band data. | 2 |
| 5. What is a Socket? | 2 |
| 6. Define Fragmentation. | 3 |
| 7. What are name servers? | 3 |
| 8. Distinguish between TCP/IP and OSI reference model. | 3 |
| 9. What is a digital signature? | 3 |
| 10. What are the services of Network layer? | 3 |

PART – B (50 Marks)

- | | |
|---|---|
| 11. Draw and explain TCP/IP reference model. | |
| 12. Explain about link state routing algorithm with an example. | |
| 13. Explain about OSPF and BGP in detail. | |
| 14. Explain about TCP and UDP header formats. | |
| 15. Write about secure socket layer in web security. | |
| 16. List and explain about advanced socket system calls. | |
| 17. Write short notes on : | |
| a) Tunneling | 4 |
| b) VOIP | 3 |
| c) POP | 3 |

Code No. 2268

FACULTY OF ENGINEERING

B.E. 44 (GSE) 1 – Semester (Suppl) Examination, May 2012

Subject : Artificial Intelligence

Time : 3 hours

Max. Marks : 75

Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B.

PART – A (25 Marks)

1. What are the limitations of an expert system? 3
2. What are frames used to represent knowledge? 2
3. Distinguish between un-informed search and heuristic search. 3
4. Define situation calculus. 3
5. What is an artificial neuron? 2
6. Explain Sussman anomaly in planning. 3
7. Explain what is common sense knowledge? What are the difficulties in representing common sense knowledge? 3
8. What are fluent in situation calculus? 2
9. What is acoustic model? 2
10. What is resolution/refutation procedure? 2

PART – B (50 Marks)

- 11.a) Write A* algorithm and explain with an example. 8
b) Write state space solution for water Jug problem. 4
- 12.a) Explain partial order planning with an example. 3
b) Define a Bayes network and explain the three important patterns of inference in Bayes network. 3
- 13.a) Explain MIN-MAX algorithm with an suitable example. 3
b) What is an activation function? Explain 3
- 14.a) Describe unification algorithm with an example. 3
b) Discuss the architecture of expert systems. 3
- 15.a) Explain four various types of agent program with a suitable examples. 3
b) Explain top-down and bottom-up parsing with an example. 3
- 16.a) Write and explain acoustic model for speech recognition with an example. 3
b) What are different forms of knowledge used in natural language understanding? 3
- 17.a) What is a neural network? What are its different layers? 3
b) What is iterative deepening? 4