



TAMIL NADU OPEN UNIVERSITY
Chennai - 15
School of Computer Science

Programme Code No : 146

Programme Name : B.Sc- Computer Science

Course Code & Name : BSCS-15 & Data Communications and Networking

Batch : BEFORE CY 2020

No. of Assignment: 2

Maximum CIA Marks: 25 (Average of Total No. of Assignments)

Assignment-1

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain the five components of a data communication system.
2. Name the five basic network topologies. Explain in detail
3. Explain the OSI reference model with neat diagram.

Assignment-2

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Write about IPv4 addressing in detail?
2. Illustrate the Fibre optic cable?
3. Describe the TCP/IP protocol suite?



TAMIL NADU OPEN UNIVERSITY
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School of Computer Science

Programme Code No : 146

Programme Name : B.Sc- Computer Science

Course Code & Name : BSCS-16 & Introduction to Operating Systems

Batch : BEFORE CY 2020

No. of Assignment: 2

Maximum CIA Marks: 25 (Average of Total No. of Assignments)

Assignment-1

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. What is Process? Draw Process state diagram and explain in detail
2. Explain the criteria consider for selecting an algorithm for CPU scheduling?
3. Explain the concept of paging in detail.

Assignment-2

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Illustrate how the deadlock be detected and recovered.
2. Portray the steps involved in deadlock prevention.
3. Pen down the multiprogramming without swapping or paging?



TAMIL NADU OPEN UNIVERSITY
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Programme Code No : 146

Programme Name : B.Sc- Computer Science

Course Code & Name : BSCS-17 & Introduction to Internet Programming

Batch : BEFORE CY 2020

No. of Assignment: 2

Maximum CIA Marks: 25 (Average of Total No. of Assignments)

Assignment-1

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain about different types of operators in java with example.
2. Discuss the different levels of access protection available in Java.
3. Compare and contrast overloading and overriding methods.

Assignment-2

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain about Exception Handling in Java with examples.
2. Explain about creating packages and accessing a package with examples.
3. Explain the usage of any five AWT controls with suitable examples.



TAMIL NADU OPEN UNIVERSITY
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Programme Code No : 146

Programme Name : B.Sc- Computer Science

Course Code & Name : BSCS-18 & HTML & WEB DESIGN

Batch : BEFORE CY 2020

No. of Assignment: 2

Maximum CIA Marks: 25 (Average of Total No. of Assignments)

Assignment-1

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain the structure of HTML program.
2. Briefly explain font manipulation techniques.
3. List and explain the attributes of an image tag with examples.

Assignment-2

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Describe cellpadding and cell spacing with an example.
2. Detail it – Front page.
3. Discriminate on channels push technology



TAMIL NADU OPEN UNIVERSITY
Chennai - 15
School of Computer Science

Programme Code No : 146

Programme Name : B.Sc- Computer Science

Course Code & Name : BSCS-19 & Introduction to Software Engineering

Batch : BEFORE CY 2020

No. of Assignment: 2

Maximum CIA Marks: 25 (Average of Total No. of Assignments)

Assignment-1

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. What are layers of software engineering?
2. Explain COCOMO estimation model.
3. Discuss in detail the Waterfall method of software life cycle.

Assignment-2

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Describe quality assurance activities.
2. Differentiate black box and white box testing.
3. Detail it–Integration testing.



TAMIL NADU OPEN UNIVERSITY
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Programme Code No : 146

Programme Name : B.Sc- Computer Science

Course Code & Name : BSCS-20 & Network Security

Batch : BEFORE CY 2020

No. of Assignment: 2

Maximum CIA Marks: 25 (Average of Total No. of Assignments)

Assignment-1

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. 2. Explain in detail about Linear crypt analysis.
2. Elucidate in Differential Cryptanalysis.
3. Discuss the Security services and mechanism.

Assignment-2

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain
 - (a) public Announcement of public keys
 - (b) publicly available Directory
2. Detail it – Man- in- the Middle Attack.
3. Public – key encryption – Elaborate.



TAMIL NADU OPEN UNIVERSITY
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Programme Code No : 146

Programme Name : B.Sc- Computer Science

Course Code & Name : BSCS-21 & Software Testing

Batch : BEFORE CY 2020

No. of Assignment: 2

Maximum CIA Marks: 25 (Average of Total No. of Assignments)

Assignment-1

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain the debugging process.
2. Explain about V - Model in Software testing.
3. Explain Software Quality Architecture?

Assignment-2

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Give a detail note on software testing overview.
2. Describe about the non-functional testing types.
3. Discuss about test maturity model.



TAMIL NADU OPEN UNIVERSITY
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Programme Code No : 146

Programme Name : B.Sc- Computer Science

Course Code & Name : BSCS-22 & Compiler Design

Batch : BEFORE CY 2020

No. of Assignment: 2

Maximum CIA Marks: 25 (Average of Total No. of Assignments)

Assignment-1

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain Prefix and postfix expression? Give example.
2. What is loop jumping? Explain with example.
3. Explain about DAG representation of basic block

Assignment-2

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain the model of predictive parsing. Give neat algorithm for predictive parsing and constructing the parse table.
2. Discuss about the address code, quadruples and triples with suitable example.
3. Explain about principles source of optimization techniques.



TAMIL NADU OPEN UNIVERSITY
Chennai - 15
School of Computer Science

Programme Code No : 146

Programme Name : B.Sc- Computer Science

Course Code & Name : BSCS-23 & TCP / IP Programming

Batch : BEFORE CY 2020

No. of Assignment: 2

Maximum CIA Marks: 25 (Average of Total No. of Assignments)

Assignment-1

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain about the client/ server model.
2. Explain about the UDP header and structure.
3. Explain the TCP/IP layering.

Assignment-2

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain the following
 - i. IP address structure
 - ii. TCP header
 - iii. Firewalls
2. Explain the following
 - i. Subnet mask
 - ii. Features of TCP
3. Discuss in detail on TCP/IP over ATM networks.



TAMIL NADU OPEN UNIVERSITY
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School of Computer Science

Programme Code No : 146

Programme Name : B.Sc- Computer Science

Course Code & Name : BSCS-24 & Intranet Administration

Batch : BEFORE CY 2020

No. of Assignment: 2

Maximum CIA Marks: 25 (Average of Total No. of Assignments)

Assignment-1

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain about network environment in detail.
2. Explain How SMTP works.
3. Explain CDMA in detail.

Assignment-2

Max= 25 marks

Answer **any one** of the questions given below in 1000 words each.

1. Give elaborate discussion about Intranet Management tools.
2. Discuss about network administration and installation.
3. Explain briefly about Service protocols and Web Server specific Protocols.