

**TAMIL NADU OPEN UNIVERSITY**

**School of Computer Science**

**SPOT ASSIGNMENT- AY 2019-20**

**NOTE :** Part A Contains 3 Questions and will carry 5 Marks each, Part B Contains 1 Question and will carry 10 Marks. Students are requested to write 150 words and should not exceed 2 pages each in Part A, 300 words and should not exceed 4 pages in Part B.

**Bachelor of Science (Computer Science)**

**Third Year**

**Course Code: BSCS-15**

**Course Title: Data Communications and Networking**

**(Total Marks=25)**

**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. Write the five components of a data communication system.
2. What is IPv4? Write its functionalities
3. Name the five basic network topologies. Explain any two in detail

**Part- B- Long Answer Question**

**Answer the following question**

**(1 X 10 = 10 Marks)**

4. Explain the OSI reference model with neat diagram.

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**Bachelor of Science (Computer Science)**

**Third Year**

**Course Code: BSCS-16**

**Course Title: Introduction to Operating Systems**

**(Total Marks=25)**

**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. What is Process? Draw Process state diagram
2. What is Semaphore? How it is implemented?
3. What are the criterias consider for selecting an algorithm for CPU scheduling?

**Part- B- Long Answer Question**

**Answer the following question**

**(1 X 10 = 10 Marks)**

4. Explain the concept of paging in detail.

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**Bachelor of Science (Computer Science)**

**Third Year**

**Course Code: BSCS-17**

**Course Title: Introduction to Internet Programming**

**(Total Marks=25)**

**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. Write a Java Program to illustrate the use of switch statement.
2. Explain about different types of operators in java with example.
3. Discuss the different levels of access protection available in Java.

**Part- B- Long Answer Question**

**Answer the following question**

**(1 X 10 = 10 Marks)**

4. Compare and contrast overloading and overriding methods.

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**Bachelor of Science (Computer Science)**

**Third Year**

**Course Code: BSCS-18**

**Course Title: HTML & WEB DESIGN**

**(Total Marks=25)**

**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. Explain the structure of HTML program.
2. What are the tags helpful in creating a table?
3. Briefly explain font manipulation techniques.

**Part- B- Long Answer Question**

**Answer the following question**

**(1 X 10 = 10 Marks)**

4. List and explain the attributes of an image tag with examples.

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**Bachelor of Science (Computer Science)**

**Third Year**

**Course Code: BSCS-19**

**Course Title: Introduction to Software Engineering**

**(Total Marks=25)**

**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. What are layers of software engineering?
2. How do we define software quality?
3. Write down the system descriptions of PSL/PSA.

**Part- B- Long Answer Question**

**Answer the following question**

**(1 X 10 = 10 Marks)**

4. Discuss in detail the Waterfall method of software life cycle.

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**Bachelor of Science (Computer Science)**

**Third Year**

**Course Code: BSCS-20**

**Course Title: Network Security**

**(Total Marks=25)**

**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. Write short notes on security attacks.
2. Write about Linear crypt analysis.
3. Write about the RSA.

**Part- B- Long Answer Question**

**Answer the following question**

**(1 X 10 = 10 Marks)**

4. Discuss the Security services and mechanism.

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**Bachelor of Science (Computer Science)**

**Third Year**

**Course Code: BSCS-21**

**Course Title: Software Testing**

**(Total Marks=25)**

**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. Write the advantages of automated test.
2. Explain the debugging process.
3. Explain about V - Model in Software testing.

**Part- B- Long Answer Question**

**Answer the following question**

**(1 X 10 = 10 Marks)**

1. Explain Software Quality Architecture?

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**Bachelor of Science (Computer Science)**

**Third Year**

**Course Code: BSCS-22**

**Course Title: Compiler Design**

**(Total Marks=25)**

**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. Define tokens.
2. How to evaluate postfix expression? Give example.
3. Write the needs of reduction in strength.

**Part- B- Long Answer Question**

**Answer the following question**

**(1 X 10 = 10 Marks)**

4. What is loop jumping? Explain with example.

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**Bachelor of Science (Computer Science)**

**Third Year**

**Course Code: BSCS-23**

**Course Title: TCP / IP Programming**

**(Total Marks=25)**

**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. Explain about the client/ server model.
2. Discuss the features of TCP.
3. Explain about the UDP header and structure.

**Part- B- Long Answer Question**

**Answer the following question**

**(1 X 10 = 10 Marks)**

4. Explain the TCP/IP layering.

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**Bachelor of Science (Computer Science)**

**Third Year**

**Course Code: BSCS-24**

**Course Title: Intranet Administration**

**(Total Marks=25)**

**Part- A- Short Answer Questions**

**Answer all questions**

**(3 X 5 = 15 Marks)**

1. Write short notes on Groupware.
2. What is VPN? Write its advantages and disadvantages.
3. Explain How SMTP works.

**Part- B- Long Answer Questions**

**Answer the following question**

**(1 X 10 = 10 Marks)**

4. Explain CDMA in detail.