TAMIL NADU OPEN UNIVERSITY

School of Computer Science

SPOT ASSIGNMENT– AY 2016-17 & CY 2017

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 both Part A and Part B.

Bachelor of Science (Computer Science)

Second Year

Course Code: BSCS-07

Course Title: Applied Operations Research

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions   **(3 X 5 = 15 Marks)**

1. Explain the general methods of solving OR models.
2. Explain the Sequencing Problem of n jobs on m machines.
3. Explain the terms
   (a)   Present worth Factor
   (b)   Discount rate.

Part- B- Long Answer Question

Answer the following question   **(1 X 10 = 10 Marks)**

4. Solve the following L.P.P. by the graphical method.

   Maximize $Z = 6x_1 + 8x_2$

   Subject to $5x_1 + 10x_2 \leq 60$
   $$4x_1 + 4x_2 \leq 40$$
   $$\text{and } x_1, x_2 \geq 0.$$

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NOTE: Part A Contains 3 Questions and will carry 5 Marks each, Part B Contain 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)

Second Year

Course Code: BSCS-08

Course Title: Design and Analysis of Algorithms

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions   **(3 X 5 = 15 Marks)**

1. What are the criteria to be satisfied by an algorithm?

2. Explain Sub goal-Hill-Climbing in detail.

3. Write Linear Search Algorithm with an example.

Part- B- Long Answer Questions

Answer the following question   **(1 X 10 = 10 Marks)**

4. Explain Performance Analysis of Bubble sort in detail.

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Bachelor of Science (Computer Science)

Second Year

Course Code: BSCS-09

Course Title: Object Oriented Programming with C++

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions   **(3 X 5 = 15 Marks)**

1. What are the types of constants? Explain in detail

2. What is macro? How do you define it?

3. Write syntax of if, if..else and Switch() functions.

Part- B- Long Answer Question

Answer the following question   **(1 X 10 = 10 Marks)**

4. What are the Iterative constructs? Explain any two with suitable example.

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NOTE: Part A Contains 3 Questions and will carry 5 Marks each, Part B Contain 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)

Second Year

Course Code: BSCS-10

Course Title: Introduction to Database Management Systems

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions   **(3 X 5 = 15 Marks)**

1. What is File Management system? Write its drawbacks.
2. Explain evaluation of DBMS in detail.
3. With suitable example, Explain Functional Dependency in detail.

Part- B- Long Answer Question

Answer the following question   **(1 X 10 = 10 Marks)**

4. Explain Data Manipulation statements in SQL.

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SPOT ASSIGNMENT– AY 2016-17 & CY 2017

NOTE: Part A Contains 3 Questions and will carry 5 Marks each, Part B Contain 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)

Second Year

Course Code: BSCS-11*
Course Title: Accounting and Financial Management
(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions   **(3 X 5 = 15 Marks)**

1. What are financial statements? How its help to managerial decision?
2. What is Ratio Analysis? Explain its advantages and limitations.
3. Distinguish between a Double entry system and Single entry system.

Part- B- Long Answer Questions

Answer the following question   **(1 X 10 = 10 Marks)**

4. The summary of balance sheet data in respect of A ltd and B ltd... Is under follows.

	A. ltd	B. ltd
Building	1,00,000	4,50,000
Machinery	3,00,000	7,50,000
Share capital	4,50,000	14,50,000
Retained earnings	50,000	33,000
Debtors	1,15,000	1,60,000
Stocks	60,000	2,17,000
Cash	10,000	5,000
Prepaid expenses	5,000	3,000
Creditors	91,000	1,00,000
Liabilities for expenses	9,000	17,000
Preliminary expenses	10,000	15,000

Comment on their position by preparing common size balance sheets.
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SPOT ASSIGNMENT– AY 2016-17 & CY 2017

NOTE: Part A Contains 3 Questions and will carry 5 Marks each, Part B Contain 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)

Second Year

Course Code: BSCS-12*

Course Title: Management Information Systems

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions   **(3 X 5 = 15 Marks)**

1. Explain the functions of DSS.

2. How does financial and accounting information system help to management?

3. Explain the system development life cycle.

Part- B- Long Answer Question

Answer the following question   **(1 X 10 = 10 Marks)**

4. Describe the importance and steps for decision making concept.

School of Computer Science

SPOT ASSIGNMENT– AY 2016-17 & CY 2017

NOTE: Part A Contains 3 Questions and will carry 5 Marks each, Part B Contain 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 Sciences (Computer Science)

Second Year

Course Code: BSCS-13*

Course Title: Principles of Management

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions **(3 X 5 = 15 Marks)**

1. Write short notes on evolution of management thoughts.

2. List out the types communication.

3. What are the uses of budgetary control?

Part- B- Long Answer Question

Answer the following question **(1 X 10 = 10 Marks)**

4. What is decision making? Explain the steps involved in decision making.

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School of Computer Science

SPOT ASSIGNMENT– AY 2016-17 & CY 2017

NOTE: Part A Contains 3 Questions and will carry 5 Marks each, Part B Contain 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)

Second Year

Course Code: BSCS-14*

Course Title: Managing Information Technology

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions **(3 X 5 = 15 Marks)**

1. List the Vulnerabilities of various Computer systems.
2. What are the types of IS Architectures?
3. What are the drivers of IT Outsourcing?

Part- B- Long Answer Question

Answer the following question **(1 X 10 = 10 Marks)**

4. Write a note on "IT Outsourcing: The Reasons, Risks and Rewards".