

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 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 Computer Applications

Third Year

Course Code : BCA-13

Course Title :TCP / IP Programming

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Write short notes about Ethernet.
2. Discuss about TCP header.
3. Write about the UDP datagram format.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

4. What are the layers present in the TCP/IP protocol stack? Explain.

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Bachelor of Computer Applications

Third Year

Course Code : BCA-14

Course Title : C++ and Object Oriented Programming

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Write about function prototyping with example.
2. What are command line arguments? Explain with an example program.
3. What is an expression? Explain the different types of expression in C++.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

4. What is function overloading? Explain with an example.

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Bachelor of Computer Applications

Third Year

Course Code : BCA-15

Course Title : Theory of Computer Science

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Explain about the properties of Set operations.
2. Write short notes on state diagram in turing machine.
3. Write about the matrix representation of graphs.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

4. Explain Turing Machines with examples.

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Bachelor of Computer Applications

Third Year

Course Code : BCA-16

Course Title : Introduction to Internet Programming

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Discuss about Java constants with example.
2. Write short notes on: Data types in Java.
3. Explain about Java features.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

4. Explain about Exception Handling in Java with examples

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Bachelor of Computer Applications

Third Year

Course Code : BCA-17

Course Title : Intranet Administration

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Explain How Intranet works
2. Explain why LAN security is important.
3. Write down the features of WAP.

Part- B- Long Answer Questions

Answer the following question

(1 X 10 = 10 Marks)

4. Explain the following
 - (a) Digic ash
 - (b) Netcash.

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Bachelor of Computer Applications
Third Year

Course Code : BCA-18
Course Title : Management Principles and Techniques
(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Explain about the Organization Structure.
2. Compute all the basic feasible solution to the LP problem.
Maximize $Z = 2x_1 + 3x_2 + 4x_3 + 7x_4$
Subject to the constraints
 $2x_1 + 3x_2 - x_3 + 4x_4 = 8$
 $x_1 - 2x_2 + 6x_3 - 7x_4 = -3$
and $x_1, x_2, x_3, x_4 \geq 0$
3. Distinguish between PERT and CPM network techniques.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

4. For the data given below, find the critical path.

Task :	A	B	C	D	E	F	G	H	I	J	K	L
Least time (days) :	3	1	2	6	8	0	5	6	1	3	8	2
Most likely time (days) :	5	2	4	8	12	0	7	9	2	6	15	4
Greatest time (days) :	6	3	6	12	17	0	9	12	3	8	20	6

Precedence relationship

A and B can start immediately.

C, D > A; E > B, C; F, H > E; G > D, F; J > G;
I, K > H; L > J, I.