

MGM College of Engineering & Technology, Noida
Department of Computer Science and Information Technology
Third Sessional Exam-2018-19(Odd sem)
Subject Name: Web Technology
Subject Code: RCS-052

Class: TT (V Sem)

Branch: CS

Max. Marks: 20

Time: 1hr

SECTION A: Attempt all questions.

[4x1=4]

1. Difference between final class and final method.
2. Explain one characteristics of java bean.
3. Write down different layout managers in AWT.
4. Strings are immutable. Explain.

SECTION B: Attempt any two questions.

[4x2=8]

1. Explain how java bean can be accessed using JSP.
2. Explain Event delegation model in Java with example.
3. What are the different methods of parsing URL? Explain four of them.

SECTION C: Attempt any one questions.

[4x1]

1. What are different types of EJBs? Explain the difference between session bean and entity bean.
2. What are different properties of java bean? Explain the working with program.

Section A:-Attempt any four Questions. Each Question Carry Equal Marks (1marks):-

1. Draw the structure of Binomial Tree B_5 .
2. How total time for string matching algorithm is calculated ?
3. Define various properties of Red Black Tree.
4. Define Fibonacci Heap and its advantages.

(4*1=4)

Section B:-Attempt any two Questions. Each Question Carry Equal Marks (4 marks):-

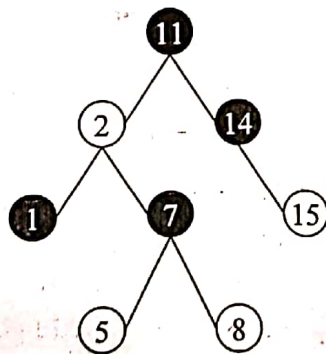
1. Explain how to determine the occurrences of Pattern $P = \text{"abababca"}$ in text $T = \text{"abcabababcb"}$ by examining the ' π ' function.
2. Discuss all cases of Binomial-Heap-Union.
3. Write the short notes on:
 - (a) Randomized Algorithm
 - (b) Approximation Algorithm

(2*4=8)

Section C:-Attempt any one Questions. Each Question Carry 8 Marks:-

- 1(a) Write an Algorithm to Extract the minimum key in Fibonacci Heap
- 1(b) Write an algorithm for adding a node in given Binomial Heap.

2. Insert a node having key value '3' in the given RB tree and then delete the same. Is the resulting RB tree is same as given below?



Nodes having key value '2', '15', '5' and '8' are 'RED' and remaining nodes are 'BLACK'

(1*8=8)

**Mahatma Gandhi Mission's
College of Engineering & Technology
Third Sessional Exam -2018-19 (Odd Sem)
Subject: Managerial Economics**

Code: RAS-501

**Class : TT-ME, EC, CS, CE
Max Marks: 20**

Yr: 3rd (5th Semester)

Branch : ME, EC, CS, CE

Duration: 1 hr

Q1] Attempt the following

[1 × 4]

- a) What are the causes of low per capita income in India?
- b) What is Gross Domestic Product?
- c) Define Inflation.
- d) How is Gross National Product calculated?

Q 2] Attempt any two questions.

[4 × 2]

- a) Discuss the concept of LPG in brief.
- b) State the characteristics of Indian Economy in brief.
- c) Discuss the causes of Inflation.

Q 3] Attempt any one question.

[1 × 8]

- a) Discuss the different phases of Business Cycle in detail.
- b) Explain the methods of measurement of National Income.