MGM College of Engineering & Technology, Noida
Department of Computer Science and Information Technology
First Sessional Exam-2018-19(Odd sem)
Subject Name: Web Technology
Subject Code: RCS-E12

Class: TT (V Sem) **Branch: CS** **Max. Marks: 20 Time: 1hr**

SECTION A: Attempt all questions: **[4x1=4]**

1. Explain the difference between row span and column span.
2. Write the syntax of script tag.
3. What is a protocol?
4. What is the need of CSS?

SECTION B: Attempt any two questions. **[2x4=8]**

5. Explain the difference between DTD and XML schema.
6. What is an event? How events are handled in JavaScript? Write a program to build up a clock using JavaScript.
7. Explain the role of SAX and DOM in processing of files in XML.

SECTION C: Attempt any one questions. **[1x8]**

1. What is a form? How are forms created for website? What is the function of submit button on a form?
2. Write HTML code to develop a webpage having two frames that divides the page into two equal rows and divides the first row into equal columns. Fill each with the different background color.

Mahatma Gandhi Mission's
College of Engineering & Technology
First Sessional Exam -2018-19 (Odd Sem)
Subject: Engineering Economics
Code: NHU-501

Class :TT-ME,EC,CS,CE **Yr:3rd (5th Semester)** **Branch :ME,EC,CS,CE**
Max Marks:20 **Duration: 1 hr**

Q1] Attempt the following [1 × 4]

a) State law of demand with example.
b) What is Demand forecasting?
c) Define Law of supply.
d) What is Managerial Economics?

Q 2] Attempt any two questions. [4 × 2]

a) What are the factors influencing supply of the product?
b) Describe Income Elasticity of Demand with cases and examples.
c) Define science, engineering and technology and discuss their contribution to Economic development in brief.

Q 3] Attempt any one question. [1 × 8]

a) Explain Qualitative methods of Demand Forecasting along with its advantages and disadvantages.
b) What are the determinants of demand? Explain briefly.

1609510022

MGM's College of Engineering & Technology NOIDA

Department of Computer Science and Information technology.
First Sessional Exam-2018-19 (ODD SEM)
Subject Name-DESIGN AND ANALYSIS OF ALGORITHM
Subject Code-RCS-502

Class-TT Year- 3rd Semester-5th Branch-CS Max Marks-20 Time-1Hour

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

1. Explain Big-oh ,theta and omega notation.
2. Calculate time complexity for Quick Sort in worst case.
3. Solve the recurrence equation $T(n) = 3T(n/3) + \sqrt{n}$ by using Master theorem method.
4. Explain Divide and conquer method. (4*1=4)

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

1. Show that the Bucket Sort Algorithm runs in linear time.
2. Solve the given recurrence equation by using Recursion Tree Method:$T(n)=4T(n/2)+n$.
3. How the algorithm for the quick sort can be improved? Write down improved algorithm. (2*4=8)

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

1. Apply Heap sort on the given Array <15,43,65,2,46,78,96,23,5,8>

2 Illustrate the merge of merge sort on the given Array<8,11,3,5,67,23,54,78,43>

(1*8=8)

MGM's College of Engineering and Technology, Noida

Department of Computer Science & Engineering

1st Sessional Exam, 2018-19 (Odd Sem.)

Subject: DBMS *Code: RCS-501*

Class: TTCS **Year: 3rd** **Branch: CSE** **Maximum Marks: 20** ***Time: 1 Hour.***

SECTION-A

Q1] Attempt the following [4 × 1]

(i) Explain DDL, DML with suitable example.
(ii) Explain the advantages of DBMS over the simple file processing system.
(iii) What do you understand by attributes and domain?
(iv) Write the applications of DBMS.

SECTION-B

Q 2] Attempt any two questions. [2 × 4]

(i) What is data independence? Explain its type & advantages.
(ii) Describe the different types of database users & their responsibilities over the DBMS.
(iii) Explain Unique Key, Primary Key, Foreign Key, Super Key and candidate key .

SECTION-C

Q 3] Attempt any one question. [1 × 8]

(i) Write all the notations used for designing E-R diagram. Draw an E-R diagram for a car insurance company.

(ii) Consider the following scheme:
SUPPLIER(SUPPLIER_ID, SUPPLIER_NAME, SUPPLIER_ADDRESS)
PARTS(PART_ID, PART_NAME, COLOR)
CATALOG(SUPPLIER_ID, PART_ID, COST)
Write the following queries in relational algebra and SQL:
(a) Find the name of suppliers who supply yellow parts.
(b) Find the name of suppliers who supply both blue and green parts.
(c) Find the name of suppliers who supply all parts.

MGM's College of Engineering and Technology, Noida
Department of CS and ECFirst Sessional Examination 2018-19 (odd Sem.)
Year: 3rd (Vth Sem) Branch: CS, EC Maximum Marks: 20
Subject: Industrial Sociology, Code: RAS-502,Time- 1hour

SECTION-A

1. **Attempt all Questions each question carries equal marks.** *(1X4 = 4)*

a) Define Industrial Sociology.

b) What is Guild System?

c) Briefly state about Scientific Management.

d) What do you mean by Factory System?

SECTION-B

2. Answer any *two* parts of the following: (4X2 =8)

a) Write about the concept of domestic or putting out system.

b) What is the contribution of Emile Durkheim in the development of industrial sociology?

c) Give the characteristics features of Bureaucracies.

SECTION-C

3. Answer any *one* part of the following: (8X1=8)

a) What are the negative and positive consequences of industrialization?

OR

b) Discuss the different stages of development of industrial sociology.

ALL THE BEST.

MGM College of Engineering & Technology, Noida
Department of Computer Science and Information Technology
First Sessional Exam-2018-19 (Odd sem)
Subject Name: Principles of Programming Languages
Subject Code: RCS-503

Class: TT (V Sem) **Branch: CS** **Max. Marks: 20** **Time: 1 hour**

SECTION A

Attempt all questions: [4x1=4]

1. What is difference between static and dynamic scope ?
2. Differentiate between data object and data value.
3. What is coercion ?
4. What is strongly type language ?

SECTION B

Attempt any two questions. [2x4=8]

1. What are characterstics of good programming language ?
2. What are different programming environment ?
3. Describe syntax, semantics, type checking ,binding, binding time and its types.

SECTION C

Attempt any one question. [1x8=8]

1. Explain the phases of compiler by drawing suitable diagram.
2. What are different programming paradigms ? Explain with suitable example.