Total No. of Questions : 5]

SEAT No. :

PB789

[Total No. of Pages : 2

[6203]-101
First Year M.B.A.(I.T.)
101 Core : C PROGRAMMING AND DATA STRUCTURE
(Revised 2020 Pattern) (Semester - I)

Time : 2½ Hours] *[Max. Marks :50*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Figures to Right indicate marks for questions.***

Q1) Solve any five:- **[10]**

a) Union in C Programming.

b) Explain preprocessor directives.

c) getch() and getchr() in C.

d) Explain switch case statement.

e) Bitwise operator in C.

f) Identifiers in C Program.

g) Pointer in C Program.

Q2) Solve any two. **[10]**

a) Explain controle statements in C Program.

b) Explain Call by Value and Call by Refrence.

c) Explain looping concept with examples.

Q3) a) Write a C Program to calcute the compound Interest. **[10]**

OR

b) Write a C Program to find the second largest element from Array of Integers. **[10]**

P.T.O.

Q4) a) Write a C Program to accept Employees record in array of structure with field Name, Date of Joining and Salary. Print Employee details geting highest salary. **[10]**

OR

b) Write a C Program to print the pattern as shown below:- **[10]**

× × × × × × ×
× × × × ×
× × ×
×

Q5) a) Write a C Program to copy the contents from one text file and paste in another file while removing white spaces in New file. **[10]**

OR

b) Write a Program to accepts the numbers from user and store the number in Two dimentional array and print transpose of Matrix. **[10]**

Total No. of Questions : 5]

SEAT No. : ____

PB790

[Total No. of Pages : 2

[6203]-102

First Year M.B.A. (Information Technology)

102-CORE : SOFTWARE ENGINEERING WITH UML

(Revised 2020 Pattern) (Semester - I)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Draw neat labelled diagrams wherever necessary.***
3) ***All questions are equal marks.***

Q1) Solve any five (each 2 marks) **[5 × 2 = 10]**

a) Explain prototyping model.

b) Explain SSAD.

c) Write any four roles of users in SDLC.

d) Distinguish waterfall and RAD model.

e) Explain Rational unified process (RUP)

f) Explain basic system development life cycle.

g) What is SDLC? List any four types of SDLC model.

h) Define the basic characteristics of software system.

Q2) Write short note on (any 2) : **[2 × 5 = 10]**

a) OOAD Association and Links

b) OOAD Inheritance and polymorphism.

c) OOAD Methods and Message.

P.T.O.

Q3) a) Prepare software Requirement specification (SRS) document for textile manufacturing industries Employee Management System (EMS). **[10]**

OR

b) Explain Decision Tables and Decision Trees. Draw decision table for the following : **[10]**

To design Agriculture Crop Management System (ACMS) :

This system having below functionalities as -

i) Farmer registration only those formers having income below 3 Lacs per year.

ii) Crop selection is based on soil pH > 0.56.

iii) Environment temperature required for crop should not more than 50^{C}.

Q4) a) Demonstrate use-case driven object oriented analysis for online voting system of Loksabha election. **[10]**

OR

b) Draw class diagram and Activity diagram for phonepay transaction processing system. **[10]**

Q5) a) Design uses interface for ordering books using mobile App. **[10]**

OR

b) Explain various features of modern GUI with suitable example. **[10]**



Total No. of Questions : 5]

SEAT No. : ____

PB791

[Total No. of Pages : 2

[6203]-103

First Year M.B.A. (I.T)

103 Core: DATA BASE MANAGEMENT SYSTEM

(Revised 2020 Pattern) (Semester-I)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Figures to the right indicate full marks.***

Q1) Answer of any five: **[10]**

Define the following terms:-

a) BCNF

b) ACID

c) Define Data Independence

d) Why Database recovery needed?

e) Schema

f) Define logical view

g) Define checkpoints

h) Decomposition

Q2) Solve any two: **[10]**

a) Explain Aggregation with suitable example.

b) Does the relational model provide physical and logical data Independence? Discuss.

c) Explain object based Model. Discuss concept of Transaction.

P.T.O.

Q3) Draw E-R diagram which models an online bookstore.

a) List the entity sets and their primary keys.

b) Suppose the bookstore adds music cassettes and compact disks to its collection. The same music item may be present in cassette or compact disk format, with differing prices. Extend the E-R diagram to model this addition, ignoring the effect on shopping baskets.

c) Now extend the E-R diagram, using generalization, to model the case where a shopping basket may contain any combination of books, music cassettes, or compact disks. [Take suitable assumption if necessary]

OR

Give example of the following relationship.

i) Many - to one

ii) One to one

iii) Many to many **[10]**

Q4) Demonstrate relational algebra with proper example.

OR

Create product table with following attributes product (p - id, p - name, colour, price)

a) Insert 5 records in product table.

b) Print product name who's colour is black.

c) Print product name having price 10,000.

d) Print product name starting with 'D'. **[10]**

Q5) Demonstrate normalization with suitable example.

OR

Illustrate functional dependency with example. Explain its use in database design. **[10]**



Total No. of Questions : 5]

SEAT No. :

PB-792

[Total No. of Pages : 2

[6203]-104

M.B.A. (IT)

104 : PRINCIPLES OF MANAGEMENT AND ORGANIZATIONAL BEHAVIOUR (104 Core)

(2020 Revised) (Semester - I)

Time : 2½ Hours] *[Max. Marks : 50*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Figures to the right indicate full marks.***

Q1) Solve any FIVE out of eight (2 marks each) : **[10]**

a) What is staffing?

b) What is decision making?

c) Concept of motivation.

d) Explain concept of team

e) Define the term conflict.

f) What is planning?

g) What are the qualities of a leader?

h) What is group dynamics?

Q2) Solve any two out of three (5 marks each) : **[10]**

a) What are the different sources of stress?

b) Johari window.

c) Difference between structured & unstructured decision.

Q3) Solve any one : **[10]**

a) What is motivation? Explain Herzberg's theory of motivation.

b) Explain the term management, its needs & functions.

P.T.O.

Q4) Solve any one : **[10]**

a) Explain the term leadership. Discuss various leadership styles.

b) What is conflict management. Discuss various ways of managing conflict in an organization .

Q5) Solve any one : **[10]**

a) Explain five stage model of group development.

b) What are different types of stress & explain stress management strategies.

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Total No. of Questions : 5]

SEAT No. : ____

PB793

[Total No. of Pages : 2

[6203]-105
First Year M.B.A.(I.T.)
105 Core : FUNDAMENTALS OF INFORMATION TECHNOLOGY
(Revised 2020 Pattern) (Semester - I)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Figures to the right indicate full marks.***

Q1) Answer the following (Any Five) **[5×2=10]**

a) Write name of four types of network?

b) Define operating system.

c) What is smallest unit of memory?

d) What is unicode?

e) What are the different type of ROM?

f) Write the name of the number system?

g) Write the type of software?

h) What are the basic functions of interpreter?

Q2) Answer the following (any two) **[2×5=10]**

a) Differentiate between windows and open source operating system.

b) Explain image capturing devices.

c) Explain language converter with its type.

P.T.O.

Q3) Convert the following. **[10]**

a) i) $(1728)_{10} = (?)_{16}$

ii) $(1c2g)_{16} = (?)_{2}$

OR

b) i) $(A2)_{16} = (?)_{8}$

ii) $(1110000101001)_{2} = (?)_{16}$

Q4) Answer any one of the following. **[1×10=10]**

a) Explain Specialty processor in details.

b) Explain on-line processing and Real-Time processing.

Q5) Answer any one of the following. **[1×10=10]**

a) Explain scanning devices, Audio input and output devices, pointing devices.

b) What is topology? Explain any four with proper diagram.



Total No. of Questions: 5]

SEAT No. :

PB794

[Total No. of Pages :2

[6203]-106
First Year M.B.A. (IT)
106 Core : DIGITAL MARKETING
(Revised 2020 Pattern) (Semester-I)

Time :2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Figures to the right indicate full marks.***
3) ***Draw neat, labelled diagram whenever necessary.***
4) ***Assume Suitable Data if necessary.***

Q1) Answer any 5 out of 8 **[2Each]**

a) What are the three types of syndication?

b) What is the role of Blog submission?

c) What is a Meta Description tag?

d) Name some useful Digital Marketing tools.

e) How does Google Ad Words work?

f) Define concept Social Media Marketing

g) Significance role of mobile marketing.

h) Define concept thumbnail. What is the size&format?

Q2) Answer any 2 out of 3 **[10]**

a) Which is an effective way to promote your YouTube channel?

b) Explain search engine optimization process for achieving high page rank.

c) State any two characteristics of digital marketing.

Q3) Answer 3 (a) or 3 (b) **[10]**

a) Which form of digital marketing is better: SEO or PPC?

b) Examine the process of Google Analytics

P.T.O.

Q4) Answer 4 (a) or 4 (b) **[10]**

a) Regarding customers and business partners. Digital Marketing is capable of improving the overall value propositions?

b) Social Media belonging/promoting activity box, what would a brand focus on if' the primary consumer need is self-presentation.

Q5) Answer 5(a) or 5(b) **[10]**

a) Viren is working for a digital design agency from Mumbai. He has been asked to develop a new website to sell pet food product to pet retailers. The main idea for the website is that retailers can choose from several or many of brands of pet food, compare them and even make their own Private Label products. Viren has also been told that this site will need a campaign to reach new customers, so he will need to design the site to appear high on search engine pages for relevant searches. This poses Viren with many challenges.

   i) Which of the following would Viren employ to ensure that the new site is high on a search engine page?

   ii) How will Viren decide which words to use in the title and Meta tags for the pet food website?

b) Mobile marketing is unsettling the way people engage with brands. It is surprising that everything that can be done on a desktop computer is now available on a mobile device. From opening an email to visiting your website to reading your content, it's all accessible through a small mobile screen. Consider; the mobile phone has many profits as well as its own encounters. As a future digital marketing executive of any company of your choice you are required to;

   i) In your mind how will describe any five major roles mobile phone can play in developing holistic digital marketing strategy.

   ii) Explain any four key features of mobile phones as a tool to build and maintain strong relationship with stakeholders in digital marketing.



Total No. of Questions : 5]

SEAT No. :

PB795

[Total No. of Pages : 2

[6203]-107
First Year M.B.A. (I.T.)
107 (UL) : E-COMMERCE
(Revised 2020 Pattern) (Semester - I)

Time : 2 Hours] *[Max. Marks : 50*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Each question carries 10 marks.***
3) ***Figures to the right indicate marks for individual questions.***

Q1) Give the answers in short (Solve any 5) : **[5×2=10]**

a) Define URL.

b) List types of cookies.

c) Explain 3 characteristics of internet.

d) Explain NEFT.

e) List Ecommerce models.

f) List Payment Methods.

g) List 3 benefits of Ecommerce.

h) Define shopping cart.

Q2) Solve any two of the following : **[2×5=10]**

a) Define internet and explain the roles of internet.

b) Explain early ages of internet.

c) List the technologies used in Ecommerce.

P.T.O.

Q3) Solve any one of the following : **[10]**

a) Explain the various ecommerce business models.

b) Explain the component of internet.

Q4) Solve any one of the following : **[10]**

a) Explain Ebay ecommerce growth with its advantages and disadvantages.

b) Explain the various payment options allowed by current Ecommerce websites.

Q5) Write descriptive note on any one : **[10]**

a) Prerequisites required for new ecommerce website development.

b) Various network topologies used for ecommerce.



Total No. of Questions : 5]

SEAT No. :

PB796

[Total No. of Pages : 2

[6203]-108

First Year M.B.A. (Information Technology)

108 UL : WEB DESIGNING

(Revised 2020 Pattern) (Semester - I)

Time : 2 Hours] *[Max. Marks : 50*

Instructions to the candidates:

1) ***All questions are compulosry.***
2) ***Each question having 10 marks.***
3) ***Figures to the right indicate full marks.***

Q1) Solve any 5. **[10]**

a) What is CSS? How it is implemented in HTML?

b) What is an array in JScript? Give an example.

c) What is event handling in javascript?

d) What is string manipulation in VBScript.

e) What is an identifier in HTML?

f) What is image mapping in HTML?

g) Which are datatypes in VBScript?

h) What is navigator in JScript?

Q2) Solve any 2. **[10]**

a) Explain loop statements in java script.

b) Explain frames in HTML with an example.

c) Write an HTML code to draw a table.

<table>
<tr><td>A</td><td>C</td><td colspan="2">D</td></tr>
<tr><td rowspan="2">1</td><td>2</td><td>3</td><td>4</td></tr>
<tr><td>5</td><td>6</td><td>7</td></tr>
<tr><td>8</td><td rowspan="2">9</td><td>10</td><td>11</td></tr>
<tr><td>12</td><td>13</td><td>14</td></tr>
</table>

P.T.O.

Q3) Answer the following. **[10]**

a) Write java script code to store information about student (Roll_No., Name, Class, Batch), write HTML code to display data in tabular format using DOM object.

b) Explain use of functions in JavaScript. At least five functions are required.

Q4) Solve (any 1). **[10]**

a) Demonstrate all the comparison operators in VBScript.

b) Display a simple message "Welcome!!!" on your demo webpage and when the user hovers over the message, a popup should be displayed with a message "Welcome to my WebPage!!!".

Q5) Solve (any one). **[10]**

a) Create a sample form program that collects the first name, last name, email, user id, password and confirms password from the user. All the inputs are mandatory and email address entered should be in correct format. Also, the values entered in the pasaword and confirm password textboxes should be the same. After validating using JavaScript, In output display proper error messages in red, just next to the textbox where there is an error.

b) Explain string functions in VBScript. At least five functions required.



Total No. of Questions : 5]

SEAT No. :

PB797

[Total No. of Pages :2

[6203]- 109
First Year M.B.A. (IT)
109 UL : CYBER SECURITY
(Revised 2020 Pattern) (Semester - I)

Time : 2 Hours] *[Max. Marks : 50*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Figures to the right indicate full marks.***
3) ***Each question carries 10 marks.***

Q1) Answer in short (any 5). **[10]**

a) What is cyber crime?

b) Name the topologies.

c) What is malicious code.

d) What is SSL?

e) What are honeypets?

f) What do you mean by a NULL session.

g) What is Phishing.

h) What is cross site scripling (XSS).

Q2) Answer any two. **[10]**

a) What are the types of cyber attacks?

b) What is firewall? Mention its uses.

c) What is the difference between threat, vulnerbility and risk?

P.T.O.

Q3) Answer any one. **[10]**

a) Explain the different tools and techniques of Cryptography.

b) What are the ethics and best practices in security management.

Q4) Answer any one. **[10]**

a) Explain how OS security is done.

b) Explain IPS and IDS in detail.

Q5) Answer any one. **[10]**

a) How is Cryptography done in security.

b) What are the different topologies and types of networks.

Total No. of Questions : 5]

SEAT No. :

PB798

[Total No. of Pages : 2

[6203]-201
First year M.B.A.(Information Technology)
201- SD : JAVA PROGRAMMING
(Revised 2020 Pattern) (Semester - II)

Time : 2½ Hours] *[Max. Marks :50*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Each question carries 10 marks.***

Q1) Define the term (any five). **[10]**

a) Constructor

b) Packages

c) Abstraction

d) Use of super()

e) Polymorphism

f) Object.

g) Interface

h) Stream

Q2) Answer (any Two). **[10]**

a) Explain the static keyword with example.

b) Explain various stages in applet life cycle.

c) What is string? Explain any 4 method of string class.

Q3) a) Write Java Program to check whether an element is present in array or not. **[10]**

OR

b) Explain the use of final in Java with example. **[10]**

P.T.O.

Q4) a) What is an Exception in Java? write a Java program an Throw an exception if age is below 18 (Print "Access derived"). If age is 18 or older, (Print "Access Granter"). **[10]**

OR

b) Write a Java code to create an applet to accept a colour in the Textfield and on clicking of OK button change the background colour accordingly. **[10]**

Q5) a) Write a AWT Java Program to Create Text Area and Password Field. **[10]**

OR

b) Write application that will accept two file name from user. Copy first file to second. Do all possible validation (Use Character Stream). **[10]**

Total No. of Questions : 5]

SEAT No. :

PB799

[Total No. of Pages : 2

[6203]-202
First Year M.B.A. (I.T.)
201 NT : Basics of Networking
(Revised 2020 Pattern) (Semester - II)

Time : 2½ Hours] *[Max. Marks :50*

Instructions to the candidates:

1) ***All question are compulsory.***
2) ***All question carry equal marks.***

Q1) Define the following terms.(any 5)

a) DHCP Server.

b) NETBEUI.

c) WINS.

d) Wireless 802.11a.

e) Active Directory.

f) Switches.

g) Print Service.

Q2) Answer any Two.

a) What is Networking? Explain the different types of network.

b) Differentiate between Host terminal network and Client server network.

c) Explain network Protocol TCP/IP in detail.

Q3) a) Explain different type of Network components.

OR

b) What is Role of DHCP? Explain steps for configuring the DHCP server for windows server 2012.

P.T.O.

Q4) a) Write the Installation steps for Windows Server-2008 operating system.

OR

b) What is Active Directory? Explain steps for configuring the Active Directory and domain controller in windows Server-2012

Q5) a) Explain user management and Group management in windows server-2012.

OR

b) Explain features of vairous type of Windows server-2008

Total No. of Questions : 5]

SEAT No. :

PB800

[Total No. of Pages : 2

[6203]-203

First Year M.B.A. (IT)

201ST CORE : INTRODUCTION TO SOFTWARE TESTING LIFE CYCLE

(Revised 2020 Pattern) (Semester - II)

Time : 2½ Hours] *[Max. Marks : 50*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Each Questions having 10 marks.***
3) ***Figures to the right indicate full marks.***

Q1) Define the following terms (any five).

a) Bugs

b) Verification

c) Error in Software Testing

d) Internal Control

e) Web - based Application

f) Stress Testing

g) Defect Class

h) Security Testing

Q2) Answer any two of the following.

a) What is Tester Workbench?

b) What is Automated Testing?

c) What is Boundary Value Analysis?

P.T.O.

Q3) Answer any one of the following.

a) Explain Defect Life Cycle?

b) Explain what do you mean by Building Test Environment?

Q4) Answer any one of the following.

a) Why a test environment is required for testing a Software Product?

b) Explain Origin of Defect in details?

Q5) Answer any one of the following.

a) Explain Security Policy? Why has a Security Policy?

b) Explain the difference between Client - Server Testing and Web-Based Testing? What are the things that we need to test in such application?



Total No. of Questions : 5]

SEAT No. :

PB801

[Total No. of Pages : 2

[6203]-204

First Year M.B.A. (I.T.)

SD-202 : Mobile Programming Using Android

(Revised 2020 Pattern) (Semester - II)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions carry equal marks.***
2) ***Each question having 10 marks.***
3) ***Figures to the right indicate full marks.***

Q1) Solve any FIVE of the following.

a) Define the term AVD in Android?

b) What is mean by Layout in Android?

c) List important files and folders in Android List components of Android application.

d) What is ADT?

e) What are attributes of Edit Text?

f) Explain attributes “Wrap_content” and “match_parent” with respect to view group.

g) What are different properties of OOP’s?

h) What role does Linux Kernel plays in Android devices?

Q2) Write short notes on (ANY TWO)

a) Activity

b) Manifest.xml File

c) Emulator

P.T.O.

Q3) Solve any ONE of the following.

a) What is Intent? Explain the types of Intents.

b) Discuss the features and need of SQLite database in Android.

Q4) Solve any ONE of the following.

a) Explain the Android architecture in detail.

b) State and explain the steps for publishing Android App to Google market.

Q5) Solve any ONE of the following.

a) Design an XML code to display Login Screen using Table Layout.

b) Select all records of table “Student”, using database connectivity in Android.

[Assume fields for “student” table]

Total No. of Questions : 5]

SEAT No. : ____

PB802

[Total No. of Pages : 2

[6203]-205

First Year M.B.A. (I.T.)

202-NT Core: SERVER AND DESKTOP TECHNOLOGIES

(Revised 2020 Pattern) (Semester - II)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All Questions are compulsory.***
2) ***Each Questions having 10 marks***
3) ***Figures to the right indicate marks for individual questions.***

Q1) Give the answers in short (Solve any 5) **[5 × 2 = 10]**

a) Explain the SMPS

b) Role of Data bus.

c) Define the term Wi-Fi.

d) Define Microprocessor.

e) Computer Viruses.

f) What is NIC card?

g) What use of pipelining in instruction execution?

Q2) Solve any two of the following **[2 × 5 = 10]**

a) Explain a various Registers.

b) Explain the different units of 16-bit processor architecture.

c) Explain the main five components of mobo.

P.T.O.

Q3) Solve any one of the following **[10]**

a) Explain all types of addressing modes in detail.

b) Explain different type of co-processors with their applications.

Q4) Solve any one of the following **[10]**

a) Explain the steps to recover window 10 if corrupted.

b) Explain the steps to install Window 8 stand-alone OS.

Q5) Write descriptive note on any two: **[2 × 5 = 10]**

a) User profile management in OS.

b) RISC and CISC

c) Explain major components Printers.

Total No. of Questions : 5]

SEAT No. : ____

PB803

[Total No. of Pages : 2

[6203]-206

First Year M.B.A. (I.T.)

ST-202 : SOFTWARE QUALITY ASSURANCE

(Revised 2020 Pattern) (Semester - II)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All Questions are compulsory.***
2) ***Each Questions having 10 marks.***
3) ***Figures to the right indicate full marks.***

Q1) Give the answers in short (Solve any 5 each having 2 Marks) **[5 × 2 = 10]**

a) Define Software Quality.

b) Explain contract.

c) Explain walkthrough.

d) Define Validation and Verification.

e) What are reviews?

f) Define PLC.

g) List models of software development process.

h) List quality management standards.

Q2) Solve any two (each of 5 Marks) **[2 × 5 = 10]**

a) Explain software testing.

b) Elaborate various software maintenance components.

c) Explain SQA objectives.

P.T.O.

Q3) Solve any one of the following. **[10]**

a) Explain six classes of components of SQA architecture.

b) Explain importance of contract review.

Q4) Solve any one of the following. **[10]**

a) Explain how Capability Maturity Models (CMM/CMMI) helps quality management standards?

b) Distinguish between SQA Vs SQC.

Q5) Write descriptive note on any two : **[2 × 5 = 10]**

a) CASE tools

b) ISO 9001 guiding principles.

c) Software configuration

Total No. of Questions : 5]

SEAT No. : ____

PB804

[Total No. of Pages : 2

[6203]-207

First Year M.B.A. (Information Technology)

203 : BUSINESS PROCESS DOMAIN

(Revised 2020 Pattern) (Semester-II)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Assume Suitable Data if necessary.***
3) ***Draw neat, labelled diagram whenever necessary.***
4) ***Figures to the right indicate full marks.***

Q1) Solve the following. (Any five) **[10]**

a) What is PLC?

b) What is MPS?

c) What is Materials?

d) What is Manufacturing Unit?

e) What is Shop Floor?

f) What if E-HR?

g) What is Outlet?

h) What is Quotation?

Q2) Answer the following. (Any two) **[10]**

a) What is the Sales Budgeting in details?

b) State the Customer Order processing?

c) Explain the Retail Marketing?

P.T.O.

Q3) Answer the following. (Any One) **[10]**

a) State the Efficiency Leave in HR.

b) Explain Salary Calculations in HR.

Q4) Answer the following. (Any One) **[10]**

a) What are the Double entry & Trial Balance?

b) Explain in details Profit & Loss Account.

Q5) Answer the following. (Any One) **[10]**

a) What is a CRM and explain in detail scope and advantages?

b) Explain the Demand Forecasting with example.



Total No. of Questions : 5]

SEAT No. : ____

PB-805

[Total No. of Pages : 2

[6203]-208

M.B.A. (IT)

204 (Core) : ORACLE

(Revised 2020) (Semester - II)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions carry equal marks.***
2) ***Each question having 10 marks.***
3) ***Figures to the right indicate full marks.***

Q1) **Consider the following table to solve Any Five the following SQL queries :** **[10]**

EMPLOYEE (Empno, Ename, Job, Manager_code, Join date, Salary, Commission, DeptNo) DEPARTMENT(DeptNo, Dname, Location)

a) Create above tables with suitable constraints.

b) Add a column “Designation” in EMPLOYEE Table.

c) Display the name of employees whose name starts with “A”.

d) Find the department wise average salary of employees.

e) Display the name of employees, Who is getting lowest salary.

f) Display the name of employees, Who join after 1st January, 2019.

g) Delete the employee records whose department is “FINANCE”.

h) Display length of employee names of employee table. Don’t show the name of employee.

Q2) **Write short notes on (Any Two) :** **[10]**

a) Views

b) DDL and DML

c) Nested query

P.T.O.

Q3) **Solve any One of the following :** **[10]**

a) Explain different types of Join operations with example.

b) What is meant by Constraints? Explain different types of constraints available in Oracle.

Q4) **Solve any One of the following :** **[10]**

a) What is mean by Cursor? Explain different types of Cursor in Oracle.

b) Explain different Group functions available in oracle.

Q5) **Solve any One of the following :** **[10]**

a) Write a Cursor to display first five top salaried records of Employee table. (Display only three columns : Eno, Ename, Salary).

b) Write a Function display_info() which accept the Eno as a parameter and display following details of the employee : (Eno, Ename, Salary).

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Total No. of Questions : 5]

SEAT No. : [ ]

PB806

[Total No. of Pages : 2

[6203]-209
First Year M.B.A.(IT)
205 Core: CLOUD INFRASTRUCTURE & SERVICES
(Revised 2020 Pattern) (Semester - II)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Each question having 10 marks.***
3) ***Figures to the right indicate full marks.***

Q1) Define the following terms (Any Five) **[10]**

a) Cloud Maturity

b) IaaS

c) Hypervisor

d) Cloud Computing

e) Intrusion Detection

f) Cloud Auto-Scaling

g) Hyperjacking

h) Cloud Resource Monitoring

Q2) Answer any two of the following. **[10]**

a) Describe what is Public Cloud & its Advantages?

b) Which delivery model is an example of Cloud Computing?

c) How Data Centers important to Business?

P.T.O.

Q3) Answer any one of the following. **[10]**

a) Describe NIST Cloud definition framework?

b) Explain the main usage of Virtualization Technologies?

Q4) Answer any one of the following. **[10]**

a) Explain Cloud Infrastructure Management and Service Creation Tools?

b) Describe the Storage Configuration in details?

Q5) Answer any one of the following. **[10]**

a) How to assume the phase's strategy for Migration to Cloud?

b) How do you quote the challenges of Cloud Security to protect the business data?



Total No. of Questions: 5]

SEAT No. :

PB807

[Total No. of Pages :2

[6203]-210
First Year M.B.A. (I.T.)
206 : SOFTWARE PROJECT MANAGEMENT
(Revised 2020 Pattern) (Semester-II)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions carry equal marks.***
2) ***Each question having 10 marks.***
3) ***Figures to the right indicate full marks.***

Q1) Solve any five of the following.

a) What are different activities under technical project management?

b) What are different types of risks in software project?

c) What are different techniques for software quality assurance?

d) What is strategic and technical assessment in project planning.

e) What are different key attributes of quality software?

f) What is role of Client and Users in Project management?

g) Write the goals of Project management.

h) What is mean by dynamic system development?

Q2) Write short notes on (Any two)

a) WBS

b) Extreme programming

c) Defect Management

Q3) Solve any one of the following.

a) Define software project management. How software projects are differ from other type of project?

b) What are software process model? Explain briefly the waterfall model of software development.

P.T.O.

Q4) Solve any one of the following.

a) Explain COCOMO model with an example.

b) Explain the different levels of CMM and its advantages.

Q5) Solve any one of the following.

a) Explain PERT a tool of risk management.

b) What is risk management? Explain different stages involved in risk management.



Total No. of Questions : 5]

SEAT No. :

PB808

[Total No. of Pages : 2

[6203]-211

First Year M.B.A. (Information Technology)

207 - UL : CURRENT TRENDS IN IT

(Revised 2020 Pattern) (Semester - II)

Time : 2 Hours] *[Max. Marks : 50*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Draw neat diagrams wherever necessary.***
3) ***Every question carries 10 marks.***

Q1) Answer any five out of eight : (2 marks each) **[10]**

a) Define payment Gateway.

b) Explain the professional social media platforms.

c) What is Virtual Classroom?

d) Explain Electronic Payment System.

e) Explain the LCMS.

f) Explain the Microsoft Team.

g) Explain Point of Sales.

h) Explain Virtual Smart Card.

Q2) Answer any Two out of Three : (5 marks each) **[2×5=10]**

a) Explain role of social media in digital marketing with example.

b) What are the different security measures for to adapt digitalization?

c) Explain the Enterprise Content Management System with example.

P.T.O.

Q3) a) "Mobile financial applications" is need of the era. Explain the statement. **[10]**

OR

b) "E-shopping is flexible way for this era". Explain. **[10]**

Q4) a) Explain chat and Instant messaging with appropriate example. **[10]**

OR

b) Explain different challenges in IT Infrastructure. **[10]**

Q5) a) Make the comparison in e-Learning Models: WBT & CBT, LMS and LCMS. **[10]**

OR

b) "E-Payment is best solution for this generation". Explain. **[10]**



Total No. of Questions : 5]

SEAT No. :

PB809

[Total No. of Pages : 2

[6203]-212

First Year M.B.A. (Information Technology)

208 - UL : BASIC OF BUSINESS ANALYTICS

(Revised 2020 Pattern) (Semester - II)

Time : 2 Hours] *[Max. Marks : 50*

Instructions to the candidates:

1) ***All questions are compulosry.***
2) ***Every question carries 10 marks.***
3) ***Every question has internal option.***

Q1) Answer any five question. **[5×2=10]**

a) Write any two skills of a good business analyst?

b) Define insight

c) Write any two drawbacks of organization in the absence of good quality data.

d) What are the types of digital data?

e) Write the types of Analytics.

f) Write the roles of data analyst.

g) What is Hadoop streaming.

h) Define Business intelligence.

Q2) Answer any two question. **[2×5=10]**

a) Write a short note on infosphere big insight.

b) Explain any two tools used in Analytics.

c) Differentiate between business analytics and business analysis.

P.T.O.

Q3) Answer any one question. **[10]**

a) Explain big data & use of analytics in big data.

b) How analytics help HR manager in making various HR decisions.

Q4) Answer any one question. **[10]**

a) Explain the role of business analytics in improving decision making process.

b) Elaborate the use of analytics in promoting the product in social media.

Q5) Answer any one question. **[10]**

a) Elaborate the analytical decision making process.

b) "Data is new oil". Justify the statement with proper explaination & example.



Total No. of Questions : 5]

SEAT No. :

PB810

[Total No. of Pages :2

[6203]-213
First Year M.B.A - (IT)
209UL : INFORMATION SYSTEM AUDIT
(Revised 2020 Pattern) (Semester - II)

Time : 2 Hours] *[Max. Marks : 50*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Each question carries 10 marks.***
3) ***Figures to the right indicate full marks.***

Q1) Answer in short (any 5). **[10]**

a) Which is not the attribute of data/information.

- Compliance

- Integrity

- Confidentiality

- Technology.

b) Which points IT auditer should consider while understanding the type of software.

c) Define security

d) WWW

e) What is encryption

f) Define patent

g) Firewall

h) GIS

P.T.O.

Q2) Answer any two. **[10]**

a) What is information system? Elaborate the evaluation of global information system.

b) Elaborate PDCA model.

c) Discuss how do organization manage security of information systems.

Q3) Answer any one. **[10]**

a) Explain security modals and frame work.

b) What is IDS? Explain.

Q4) Answer any one. **[10]**

a) Explain the cryptographic Techniques for security.

b) What are the security measures for mobile.

Q5) Answer any one. **[10]**

a) What is sarbanes Oxlay Act - (SOX)?

b) What is the auditers responsibility in security audit?

Total No. of Questions : 5]

SEAT No. :

PB811

[Total No. of Pages : 2

[6203]-301
S.Y. M.B.A. (IT)
301-SD : PROGRAM AND DESIGN WITH ASP.NET
(Revised 2020 Pattern) (Semester - III)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All question are compulsory.***
2) ***Assume suitable data if necessary.***
3) ***Draw neat, labelled diagram whenever necessary.***
4) ***Figures to the right indicate full marks.***

Q1) Solve the following (Any five) **[10]**

a) What is variable?

b) What is algorithm?

c) What is Data type?

d) What is Functions?

e) What are Operating Systems?

f) What are Modifiers?

g) What is class?

h) What is interface?

Q2) Answer the following. (Any two) **[10]**

a) What is type comparison with example?

b) State the event handler in asp.net?

c) Explain the life cycle of process?

Q3) Answer the following. (Any one) **[10]**

a) State the User defined in detail?

b) Explain types of control.

P.T.O.

Q4) Answer the following. (Any one) **[10]**

a) Design a Form of and write code to

i) Student_name & Roll_no of students.

ii) Display in dropdown list

iii) Add a record

b) Explain in details of Validators?

Q5) Answer the following. (Any one) **[10]**

a) What is Web page? Explain with examples?

b) What is Window Communication Foundation (WCF) services?

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Total No. of Questions : 5]

SEAT No. :

PB812

[Total No. of Pages : 2

[6203]-302
S.Y. M.B.A. (IT)
301-NT : ADVANCED COMPUTER NETWORKS
(Revised 2020 Pattern) (Semester - III)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Each questions having 10 marks.***
3) ***Figures to the right indicate full marks.***

Q1) Define (any 5) **[10]**

a) QOS

b) Congestion centrol

c) Rouling

d) Differentiated service

e) Cryptography

f) Switching

g) E.mail security

h) Wireless LAN

Q2) Solve (any two) **[10]**

a) Discuss LAN emulation & state the functions of LAN.

b) How to configure & monitor SNMP.

c) Explain briefly switching and types of switching fabrics.

Q3) Answer the following. (any 1) **[10]**

a) Describe wireless links & network characteristics?

b) Discuss the importance of mobility management in wireless LAN?

P.T.O.

Q4) Solve any (any 1) **[10]**

a) Illustrate the protocols used for real time communication & streaming.

b) Can you distinguish between integrated and differentiated services.

Q5) Solve (any 1) **[10]**

a) Write a brief outline on cyptography with reference to symmetric and public key algorithms.

b) Compare client server. P2P & hybrid networking.



Total No. of Questions : 5] **SEAT No. :**

PB813 **[Total No. of Pages : 1**

[6203]-303
S.Y. M.B.A. - (IT)
301-ST : SOFTWARE TEST PLANNING & DOCUMENTATION
(Revised 2020 Pattern) (Semester - III)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Each question carries 10 marks.***

Q1) Answer in short (any 5) **[10]**

a) Define test plan
b) What is test point analysis
c) What are categories of debugging
d) Define administration test
e) What is erroneous test case?
f) What is Latent defect?
g) What is a test report?
h) Who is the author of test plan document?

Q2) Solve any two **[10]**

a) When should one step the testing process? Explain.
b) What are pareto charts?
c) What are the important tasks in test planning stage?

Q3) Solve any one **[10]**

a) What do you mean by latent defect and masked effect?
b) What is test matrix and traceability matrix?

Q4) Solve any one **[10]**

a) What is TMM? Explain in detail.
b) Explain user acceptance plan and execution.

Q5) Solve any one **[10]**

a) How risk assessment and risk management is done?
b) What is a bug report? What are the elements to consider while writing a bug reprot?

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Total No. of Questions : 5]

SEAT No. : ____

PB814

[Total No. of Pages : 2

[6203]-304
S.Y. M.B.A. (I.T.)
302- SD Core : ADVANCED JAVA
(Revised 2020 Pattern) (Semester - III)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Each question carries 10 marks.***

Q1) Define the terms (any FIVE) **[10]**

a) Stub

b) Skeleton

c) Jdbc

d) Odbc

e) MetaData

f) Port

g) Cookies

h) Scriptlet

Q2) Answer any TWO **[10]**

a) Explain RMI Architecture with diagram.

b) Differentiate between TCP/IP and UDP.

c) Write any four ResultSet functions with syntax?

P.T.O.

Q3) a) Write a Java socket based client and server program to accept a number from client, Read this number at server and if this number is prime, then revert it to client. **[10]**

OR

b) Write a client server socket program to accept a string from the client. The server will convert the string into lowercase and display it.

Q4) a) Write a JDBC program to display list of employees working HR Department. Assume suitable Table structure. **[10]**

OR

b) Write a JDBC program to insert record in student table? (The fields of student table are rollno , name ,date of birth and address).

Q5) a) Write servlet program to accept name of the city and display list of the student from Student table who belongs to that city in tabular format. Assume suitable Table structure. **[10]**

OR

b) Write a JSP application to accept product type from HTML page and display Product details in tabular format. Assume suitable Table structure.

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Total No. of Questions : 5]

SEAT No. : ____

PB815

[Total No. of Pages : 2

[6203]-305
S.Y. M.B.A. (I.T.)
302-NT: PARALLEL COMPUTING
(Revised 2020 Pattern) (Semester - III)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All Questions are compulsory.***
2) ***Each Question carries 10 marks.***
3) ***Figures to the right indicate marks for individual questions.***

Q1) Give the answers in short (Solve any 5) **[5 × 2 = 10]**

a) Define Super Scaler processing.

b) What is hyper threading?

c) What is SISD?

d) Node degrees in network topology.

e) What is Task parallelism?

f) Grid Computing.

Q2) Solve any two (each of 5 Marks) **[2 × 5 = 10]**

a) Explain the inter connected network?

b) What is pipelining?

c) List recent parallel programming models.

P.T.O.

Q3) Solve any one of the following : **[10]**

a) Explain the applications of parallel processing.

b) Explain the Flynn's classification in parallel computing?

Q4) Solve any one of the following. **[10]**

a) What are parallel virtual machines? How it works?

b) What are the benefits of parallel computing over sequential computing?

Q5) Write descriptive note on any two : **[2 × 5 = 10]**

a) Explain parallelism based on Grain size?

b) Discuss instruction level parallelism.

c) What is superscalar processing?

Total No. of Questions : 5]

SEAT No. : ____

PB816

[Total No. of Pages : 2

[6203]-306
S.Y. M.B.A. (I.T.)
SOFTWARE TESTING
302-ST Core : Agle Model & Methodology
(Revised 2020 Pattern) (Semester - III)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All Questions are compulsory.***
2) ***Each Question carries 10 marks.***
3) ***Figures to the right indicate full marks.***

Q1) Define the following terms (Any Five) **[10]**

a) Storytelling

b) SCRUM

c) Sprints

d) Check List

e) DSDM (Dynamic Software Development Method)

f) Agile Quality Assurance

g) ASD (Adaptive Software Development)

h) Agile Metrics

Q2) Answer any two of the following. **[10]**

a) Describe the generic Agile concept?

b) Describe Agile Architecture?

c) How does Agile process flow work?

P.T.O.

Q3) Answer any one of the following. **[10]**

a) Explain Adaptive Software Development in Agile Process?

b) Explain the stages of the Agile System Development Life Cycle?

Q4) Answer any one of the following. **[10]**

a) Explain Agility Management and Knowledge Management in detail?

b) Explain in brief what is Agile Testing, Methodology, and process life cycle?

Q5) Answer any one of the following. **[10]**

a) Explain Financial and Production Metrics in FDD?

b) How to build a good QA plan for your Agile set-up?

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Total No. of Questions : 5]

SEAT No. :

PB817

[Total No. of Pages : 2

[6203]-307

S.Y. M.B.A. (IT)

303 Core : MANAGEMENT INFORMATION SYSTEM

(Revised 2020 Pattern) (Semester-III)

Time : 2 ½ Hours] *[Max. Marks : 50*

Instructions to the candidates:

1) ***All questions are compulsory***
2) ***Draw neat, labelled diagram whenever necessary.***
3) ***Figures to the right indicate full Marks.***
4) ***.Assume Suitable Data if necessary.***

Q1) Solve the following(any Five) . **[10]**

a) What is System?

b) What is DBMS?

c) What is Topology?

d) What is Data warehouse?

e) What is Analytics?

f) What is EIS?

g) What is information?

h) What is Information System?

Q2) Answer the following. (Any two) **[10]**

a) Explain the importance's of Computer in MIS with example?

b) Explain information and characteristics in details?

c) Describe the Waterfall model in detail?

P.T.O.

Q3) Answer the following. (Any one) **[10]**

a) Explain SDLC Phases in detail?

b) Explain Spiral Model in detail?

Q4) Answer the following. (Any one) **[10]**

a) What is Data Mining? Explain the need of maintenance in detail?

b) Explain in MIS and Component in detail?

Q5) Answer the following. (Any One) **[10]**

a) What is ERP? Explain with example?

b) What are ERP packages for information system in detail?



Total No. of Questions : 5]

SEAT No. :

PB-818

[Total No. of Pages : 2

[6203]-308
M.B.A. (IT)
304 : DATA MINING
(Revised 2020 Pattern) (Semester - III)

Time : 2½ Hours] *[Max. Marks : 50*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***All questions carry equal marks.***
3) ***Figures to the right indicate full marks.***
4) ***Draw diagram wherever necessary.***

Q1) Define the following terms (Any five) : **[5 × 2 = 10]**

a) KDD.

b) Web Mining.

c) Predictive Model.

d) Association.

e) Data Cleaning

f) Classification.

g) Clustering.

h) Outliers.

Q2) Answer the following questions (Any two) : **[2 × 5 = 10]**

a) How data mining helps for CRM system?

b) Explain any one data mining issue with example.

c) Explain features of tableau in brief.

Q3) Answer the following questions (Any one) : **[1 × 10 = 10]**

a) Differentiate between Business Intelligence and Data Mining.

b) Differentiate between OLTP and OLAP.

P.T.O.

Q4) Answer the following questions (Any one) : **[1 × 10 = 10]**

a) Differentiate between clustering and classification method.

b) Differentiate between web content mining and web structure mining.

Q5) Answer the following questions (Any one) : **[1 × 10 = 10]**

a) What is association ? What are the applications of association ? Explain any one application of association.

b) List and explain the phases of data collection and processing for asthma screening.

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Total No. of Questions : 5]

SEAT No. :

PB-819

[Total No. of Pages : 2

[6203]-309

M.B.A. (IT)

306 : INTRODUCTION TO ANIMATION

(Revised 2020) (Semester - III)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***Assume Suitable Data if necessary.***
2) ***Draw neat, labelled diagram whenever necessary.***
3) ***Figures to the right indicate full Marks.***
4) ***All questions are compulsory.***

Q1) Solve the Following (Any five): **[10]**

a) What is Software?

b) What is Operating System?

c) What is animation?

d) What is Graphics?

e) What is Multimedia?

f) What is 3D Max?

g) What is Adobe?

h) Name any one software use in animation with examples?

Q2) Answer the following (Any two) : **[10]**

a) What are the Elements of design Art in texture?

b) Define Form and basic types of form of drawing?

c) Explain the Graphics software in Details?

Q3) Answer the following (Any one) : **[10]**

a) State the Rules for harmony, balance in Design Art with example?

b) Explain in detail Rules for Scale, rhythm in Design Art?

P.T.O.

Q4) Answer the following (Any one) : **[10]**

a) What is the basic operating system used for computer Graphics?

b) Explain in various types of Operating system used in Design?

Q5) Answer the following (Any one) : **[10]**

a) What is a Storyboard & Context explain in detail?

b) Explain the 3D Max for Animation?

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Total No. of Questions : 5]

SEAT No. :

PB820

[Total No. of Pages : 2

[6203]-310
S.Y.M.B.A. (IT)
307UL : DATA WAREHOUSING
(Revised 2020 Pattern) (Semester - III)

Time : 2 Hours] *[Max. Marks :50*

Instructions to the candidates:

1) ***All questions carry equal marks.***
2) ***Each questions having 10 marks.***
3) ***Figures to the right indicate full marks.***

Q1) Solve any five of the following. **[10]**

a) What is mean by metadata?

b) What is mean by OLAP?

c) What is mean by Fact Table?

d) What is mean by ETL?

e) What is mean by Dimension Table?

f) What is data warehousing?

g) What is mean by Data Mart?

h) What are different schemas available in Data warehouse?

Q2) Solve any two of the following. **[10]**

a) ETL Tools

b) Tools for metadata management

c) Roll Up and Drill-down operations?

Q3) Solve any one of the following. **[10]**

a) Explain Kimball's life cycle of Data Warehouse in detail.

b) Explain important responsibilites of team members while designing data warehouse.

P.T.O.

Q4) Solve any one of the following. **[10]**

a) Explain ETL process in detail.

b) What is schema? Explain different types of schemas in data warehouse.

Q5) Solve any one of the following. **[10]**

a) Explain the advantages and disadvantages of data warehouse.

b) Explain different types of data warehouse.

Total No. of Questions : 5]

SEAT No. :

PB-821

[Total No. of Pages : 2

[6203]-311
M.B.A. (I.T.)
308 - UL : OOPS With CPP
(Rev.2020) (Semester - III)

Time : 2 Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Each question carries 10 marks.***
3) ***Figures to the right indicate full marks.***

Q1) **Solve (any 5) :** **[10]**

a) Operator Overloading.

b) Variables.

c) Array.

d) Constants.

e) What is generic program? How it is implemented in C++?

f) What is function overloading?

g) What is the friend function?

h) Abstraction.

Q2) **Solve (any two) :** **[10]**

a) Explain static member function and static data member.

b) Explain with example, conversion from class type to built - in type.

c) Why do we need the object - oriented programming paradigm?

Q3) **Solve (any one) :** **]10]**

a) Write a program to overload [] and ! = operators.

b) Explain types of inheritance? Write a program to pass parameters to the base class constructor in multilevel inheritance.

P.T.O

Q4) **Solve (any one) :** **[10]**

a) What is virtual base class? Explain with a suitable example.

b) Write a program to read the records from "Bonk.txt" file & delete records of customers who balance is less than 1000.

Q5) **Solve (any one) :** **[10]**

a) Write a program to display the size of a file by accepting a filename as a command line argument.

b) Design a class employee (name, dept, salary). Write a C++ program that should throw an exception when salary is less than or equal to 0.



Total No. of Questions : 5]

SEAT No. :

PB-822

[Total No. of Pages : 2

[6203]-312
M.B.A. (I.T.)
309 UL : E Governance and Framework of ICT
(Revised 2020 Pattern) (Semester - III)

Time : 2 Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Each question carries 10 marks.***

Q1) **Answer in short (any 5) :** **[10]**

a) Define e Governance

b) Data security

c) Mobile Wallet

d) Request for proposal

e) Smart city

f) e waste

g) Telemedicine

h) What is JAM

Q2) **Solve any two** **[10]**

a) Explain maturity model of e governance.

b) What is importance of ICT in e governance.

c) Explain open government data standards.

Q3) **Solve any one :** **]10]**

a) Explain NeGP in detail.

b) How does e governance helps in becoming cashless?

P.T.O

Q4) **Solve any one :** **[10]**

a) Elaborate your viewson individual privacy V/s national security.

b) Explain OWASP.

Q5) **Solve any two :** **[10]**

a) What are benefits of telemedicine.

b) What are the objectives of e governance.



Total No. of Questions : 5]

SEAT No. :

PB823

[Total No. of Pages : 1

[6203]-401
S.Y. M.B.A. (IT)
401 : ENTERPRISE RESOURCE PLANNING
(Revised 2020 Pattern) (Semester - IV)

Time : 2½ Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Each questions carries 10 marks.***
3) ***Figures to the right indicate full marks.***

Q1) Define the following. (any 5) **[10]**

a) BPR
b) CRM
c) SAP
d) MRP
e) Advantages of SCM
f) What is SCOR?
g) Web based architecture.

Q2) Solve (any 2) **[10]**

a) Differentiate between MRP & ERP.
b) Explain MRP in detail.
c) Discuss why enterprise integration important?

Q3) Answer the following (any 1) **[10]**

a) Explain briefly vanilla ERP.
b) Discuss proof concept (POC) with steps?

Q4) Solve (Any 1) **[10]**

a) How to choose right ERP for the business.
b) Explain the Oracle AIM methodology in brief.

Q5) Solve (Any 1) **[10]**

a) What are 3 main components of customer relationship management?
b) Illustrate the drives of supply chain management?

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Total No. of Questions : 5]

SEAT No. :

PB824

[Total No. of Pages : 2

[6203]-402

S.Y. M.B.A. (IT)

402 : MULTIMEDIA & ANIMATION

(Revised 2020 Pattern) (Semester-IV)

Time : 2 ½ Hours] *[Max. Marks : 50*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Draw neat, labelled diagram whenever necessary.***
3) ***Figures to the right indicate full marks.***
4) ***Assume Suitable Data if necessary.***

Q1) Solve any Five.

a) What are principles of text and images? **[2]**

b) What is PCM? **[2]**

c) Define character animation? **[2]**

d) What is TEXT? **[2]**

e) Define LAN, WAN, MAN? **[2]**

f) List qualities of reconstructed images? **[2]**

g) What is Video? **[2]**

h) What is Application in Multimedia? **[2]**

Q2) Solve any two.

a) Explain the image fundamentals in multimedia? **[5]**

b) What is Lossy Image Compression? **[5]**

c) Explain the fundamentals of Image? **[5]**

P.T.O.

Q3) Solve any one.

a) What is Dynamic Huffman Coding? And explain in Huffman Coding Text Compression in Detail? **[10]**

b) State the LZW Text Compression? **[10]**

Q4) Solve any one.

a) What is Predictive Coding? Explain in detail Linear Predictive Coding? **[10]**

b) What is Video Compression? State the Principles for Video Compression. **[10]**

Q5) Solve any one.

b) What are Animation techniques? Explain in detail rendered and morphing frame in Animation? **[10]**

c) What is Morphing? State the Principles for facial animation? **[10]**



Total No. of Questions : 5]

SEAT No. : ____

PB-825

[Total No. of Pages : 2

[6203]-403
M.B.A. (I.T.)
404 UL : Open Source IOT Platform
(Rev. 2020 Pattern) (Semester - IV)

Time : 2 Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All questions are complsory.***
2) ***Each question carries 10 marks.***

Q1) **Answer in short (any 5) :** **[10]**

a) Give 2 applications of IOT.

b) Define M2M.

c) What is internet?

d) Give 2 characteristics of IOT sensor.

e) What is e Governance.

f) Internet future technology.

g) Give advantages of IOT.

h) Define IOT.

Q2) **Solve any two from the following :** **[10]**

a) Explain the components of IOT.

b) How IOT is used in SMART city?

c) What is internet of things vision?

Q3) **Solve any one :** **]10]**

a) Elaborate on IOT governance.

b) Give some common applications of IOT.

P.T.O

Q4) **Solve any one :** **[10]**

a) What are the different communication models in IOT?

b) Explain new IOT works.

Q5) **Solve any one :** **[10]**

a) What is IOT functional view?

b) Elaborate on role of M2M to IOT building architecture.



Total No. of Questions : 5]

SEAT No. : ____

PB-826

[Total No. of Pages : 2

[6203]-404

M.B.A. (IT)

405 UL : DEBUGGING OF APPLICATION PROGRAMMING (IOT)

(Revised 2020) (Semester - IV)

Time : 2 Hours] ***[Max. Marks : 50***

Instructions to the candidates:

1) ***All Questions are compulsory.***
2) ***Each Questions having 10 marks.***
3) ***Figures to the right indicate full marks.***

Q1) Define the following terms (Any Five): **[10]**

a) IoT

b) Industry 4.0

c) Adoption of IoT

d) Open Source

e) Pre-Processor

f) MQTT Server

g) Injection Engine

h) Cryptography

Q2) Answer any two of the following: **[10]**

a) What are different component of IoT?

b) Describe Open Source Platform?

c) How to setup IoT Platform?

Q3) Answer any one of the following: **[10]**

a) Explain IoT Architecture in brief?

b) Explain in detailed Basic statements used in C with suitable example?

P.T.O.

Q4) Answer any one of the following : **[10]**

a) Describe IoT Cloud building blocks in brief?

b) Explain Device Management and Application Services in details?

Q5) Answer any one of the following : **[10]**

a) Explain different Securities used in IoT?

b) Describe Benchmarking of IoT application and its platforms in detail?

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