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M.B.A. (IT)

101 - GC - 01 : Fundamental of Information Technology

(2024 Credit Pattern) (Semester - I)

Time : 2 ½Hours] *[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) **Give the answers in short (Solve any 5) :**   **[5 × 2 = 10]**

   a)   Define Intranet.

   b)   CD and DVD are types of _____ storage.

   c)   What is the full form of MICR?

   d)   List the types of printers.

   e)   List and explain any two audio output devices.

   f)   List the characteristics of computers.

   g)   Give any four functions of an Operating System (OS).

   h)   How many bytes are in 1 kilobyte?

Q2) **Explain in brief (Solve any 2) :**   **[2 × 5 = 10]**

   a)   Define computer networking and list the types of topologies.

   b)   Differentiate between a compiler and an interpreter.

   c)   Categorize various output (O/P) devices.

Q3) **Convert the following :** [2 × 5 = 10]

    a)   i) $(49)_{10} = (?)_2$

          ii) $(77)_8 = (?)_{16}$

<p style="text-align:center">OR</p>

    b)   i) $(11101)_2 = (?)_8$

          ii) $(5C3)_{16} = (?)_8$

Q4) **Solve any ONE of the following :** [1 × 10 = 10]

    a)   Draw the OSI model and explain the function of each of its 7 layers.

<p style="text-align:center">OR</p>

    b)   Define a computer system and explain the different generations of computers, including the technologies used in each generation.

Q5) **Application oriented questions (Solve any 1) :** [1 × 10 = 10]

    a)   If a management institute wants to set up a computer network, which topology would you recommend and why?

<p style="text-align:center">OR</p>

    b)   If an organization needs to choose a language for application development, would you recommend a High-Level Language (HLL) or an Object-Oriented Language (OOL)? Justify your choice.

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F.Y. M.B.A. (IT)
GC - 02 : OBJECT ORIENTED SOFTWARE ENGINEERING
(2024 Credit 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) Solve any five :   **[10]**

   a)   Define testing.

   b)   List the phases of SDLC.

   c)   Which model is not suitable to incorporate any changes.

   d)   Define the term 'Agile Methodology'.

   e)   Write any four roles of users in SDLC.

   f)   Which model considers Risk factor.

   g)   What phase of RUP is used to create a business case for the system?

   h)   List object oriented principles.

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

   a)   A Management college has incorporated an LMS which uploads notes and reading material for students. Students have to appear for online exams, submit their assignments online. Faculty have to evaluate them and enter marks for these exams and internal exam also. Write SRS for the above case.

b) Eat Easy have started an online system so that customers can place orders for snacks related to festivals. Billing is done through cash or online. Write on SRS for the above case.

c) Write SRS for event management system. The overall functioning is as follows :

   i) Booking of venue for the event

   ii) Registration for venders

   iii) Assigning venders

   iv) Generating quotations

Q3) Answer any one : [10]

a) Design a GUI screen (input screen design) for student who takes admission for MBA-IT course after clearing the entrance exam.

b) Discuss several features of modern GUI with suitable examples.

Q4) Answer any one : [10]

a) Draw a use case diagram for online shopping.

b) Draw an activity diagram for placement portal.

Q5) Answer any one : [10]

a) Explain the types of testing.

b) Explain Agile process models and Extreme programming.

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M.B.A. (Infromation Technology)
GC - 03 : Principle Practice Management
(2024 Pattern) (Semester - I)

Time : 2½Hours]   *[Max. Marks : 50*

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

Q1) **Answer any Five out of Eight (2 Marks Each) :**   **[5 × 2 = 10]**

a) Define the term certainty & Uncertainty.

b) Define MIS.

c) Define Global World.

d) Define Corporate Governance.

e) Define Management Levels.

f) Define Behavioral Study.

g) What is Contingency?

h) Define Recruitment.

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

a) Explain the MBO with appropriate examples.

b) Explain tools for planning.

c) Explain managing innovations.

Q3) a) "Good Management is key of organizational sucess". Explain the statement. **[10]**

OR

b) "Decision making is varied as per situation". Explain with example. **[10]**

Q4) a) Explain classical theories of management with their appropriate points. **[10]**

OR

b) Explain the controlling function in brief. **[10]**

Q5) a) Explain types of decision making with example. **[10]**

OR

b) Explain the leadership with appropriate example. **[10]**

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F.Y.M.B.A. (Information Technology)
104 GC-04: PROGRAMMING IN C
(2024 Credit Pattern) (Semester - I)

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 marks for individual questions.*

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

   a)   Give output with explanation

```
#include <stdio.h>
int main()
{ int x=3, y, z;
      y = x = 25;
      z = x > 10;
printf("\n x = %d y = %d z = %d", x , y, z);
return 0;
}
```

   b)   Give output with explanation

```
#include <stdio.h>
void main()
{     int a, b;
     a = -3 - -3;
     b = -3 - - (-3)
     printf("\n a = %d, b = %d", a, b);
     return 0;
}
```

   c)   Types of Constant in C

   d)   Explain fprintf () statement

   e)   List any four string functions

   f)   Explain types of arrays

   g)   Loops in C Programming

   h)   Define recursion functions

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

a)   Explain Preprocessor directives and its rules for defining it?

b)   Explain structures in C programming with example?

c)   Write a C program to display the following output?

1 2 3 5 8 13 21 34 55....

Q3) Solve the following.   **[1×10=10]**

a)   Write a program in C to find the square of any number using the function?

OR

b)   Write a program in C to swap two numbers using a function.

Q4) Write the C program for the following.   **[1×10=10]**

a)   Accept 10 random numbers from the console and store it in single dimension array and sort the elements in reverse order and display original elements and sorted array elements?

OR

b)   Reads a string form the keyboard and determines whether the string is palindrome or not. (i.e. madam, radar, anna ext are palindrome).

Q5) Project on -   **[1×10=10]**

a)   Write a C program to make a simple calculator by using switch statement minimum five basic arithmetic operations.

OR

b)   Write a C Program to copy the content of one text file (File 1) to another text file (File 2) and display the content of both the files.

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F.Y.M.B.A. (I.T)
GC - 05 : Advanced Data Base Management System
(2024 Credit Pattern) (Semester - I)

Time : 2½ Hours]   *[Max. Marks : 50*

Instructions to the candidates :
    1)   *All questions are compulsory.*
    2)   *All questions carry equal marks.*

Q1) **Answer the following Questions (any FIVE).**   **[5 × 2 = 10]**

    a)   Define Logical Data Independence

    b)   Explain Cardinality

    c)   Explain durability Property

    d)   Explain three characteristics of DBMS

    e)   What is meaning of Data privacy

    f)   Explain Column oriented NoSQL

    g)   What is Fragmentation

    h)   Define Commit Protocols.

Q2) **Answer any TWO questions.**   **[2 × 5 = 10]**

    a)   Explain Architecture of DBMS.

    b)   Define Deadlock? Explain Deadlock Handling Method.

    c)   Explain Data Manipulation rules

Q3) a) Discuss the various types of storage used (volatile and non-volatile) and how these storage structures influence data recovery and system performance. **[10]**

OR

b) Compare and contrast deferred and immediate database modification techniques in log- based recovery.

Q4) a) Define encryption? What is the significance of Public Key Infrastructure (PKI) in ensuring secure data transmission? **[10]**

OR

b) Differentiate Between parallel database system & Distributed Database System.

Q5) a) Normalize Upto 3NF **[10]**

Service Call Report Electrical Appliances					
Customer Code		Customer Name :			
Customer Address :					
Date of Call :		Time of Call :			
Sr. No	Application Name	Problem	Spares used	Qty	Amount
				Total	
Service Charge			Grand Total :		
Engineer Code & Name :					
Customer Sign					

OR

b) Discuss the different development tools available for building and managing NoSQL databases.

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F.Y. M.B.A. (Information Technology)
GC-06 : BASICS BUSINESS ANALYTICS
(2024 Credit 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) Write answers in short (any 5 out of 8 questions) **[2×5=10]**

   a)   What is the difference between business analytics and business analysis?

   b)   What is data exploration, and why is it important?

   c)   Explain the concept of insights in business analytics.

   d)   State any two challenges in big data collection.

   e)   What are the characteristics of the analytical decision-making process?

   f)   Define the concept of knowledge in the data-information-knowledge hierarchy.

   g)   What is prescriptive analytics?

   h)   Define Hypothesis.

Q2) Answer any 2 out of 3 questions **[2×5=10]**

   a)   How does exploratory data analysis (EDA) aid decision-making?

   b)   Explain the steps involved in analytical Decision Making process.

   c)   Explain the types of analytics with suitable example.

Q3) Answer any 1 question. **[10]**

    a)   Discuss the importance of analytics in campaign management with an example .

    b)   Discuss the use of financial analytics in risk management and credit scoring.

Q4) Answer any 1 question. **[10]**

    a)   Discuss how operations analytics can enchance process optimization and efficiency.

    b)   Discuss the benefits of predictive analytics in Healthcare with examples.

Q5) Answer any 1 question. **[10]**

    a)   Discuss a case study showcasing analytics improving employee retention in an organization.

    b)   "Information is the oil of the 21st century, and Analytics is the combustion engine". Do you agree with this analogy? Justify your answer.

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First Year M.B.A. (Information Technology)
107 GC - 07 : E - COMMERCE
(Credit 2024 Pattern) (Semester- I)

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 marks for individual questions.*

Q1) Give the answers in short (Solve any 5):   **[5×2=10]**
  a) Define M-commerce.
  b) What is an electronic fund transfer (EFT)?
  c) Define "internet protocol" (IP).
  d) Challenges in e-commerce.
  e) Explain the concept of B2B model.
  f) Define Market Place.
  g) Name any two benefits of Social Business Networks?
  h) Benefits of e-commerce.

Q2) Explain in Brief (Solve any 2):   **[2×5=10]**
  a) Discuss five benefits of Mobile commerce.
  b) What is shopping cart? Explain different types of shopping carts.
  c) Discuss the importance of payment gateways like PayPal in ECommerce.

Q3) Solve in Details (Solve any 1):   **[1×10=10]**
  a) Classify the different models of B-commerce.

<div align="center">OR</div>

  b) Summarize the detail process of NEFT process in banking online transaction.

Q4) Solve in Details (Solve any 1): **[1×10=10]**

a) Explain the pre-requisite for E-commerce & explain the components of e - commerce.

OR

b) Explain the role of the Internet as the backbone for E-Commerce. Discuss key concepts like IP addresses, domain names, and URLs and their importance in online transactions

Q5) Application Oriented Questions (Solve any 1): **[1×10=10]**

a) Discuss with a neat diagram the major E-commerce activities & mechanism. Describe the online purchasing process.

OR

b) Explain the different technologies available for effective use of E - commerce?

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M.B.A. (Information Technology)
108 : GC - 08 : INDIAN KNOWLEDGE SYSTEM
(2024 Pattern) (Semester - I)

Time : 2Hours]

[Max. Marks : 50

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

Q1) **Answer any Five :** **[10]**

a) What is the concept of "Karma" in the Bhagavad Gita?

b) What role does community play in traditional Indian business practices?

c) What is "Artha" in the context of ShivajiMaharaj's governance?

d) Explain the role of intuition versus data-driven decision-making in Indian Knowledge Systems.

e) Explain how emotional intelligence plays a role in leadership according to the Bhagavad Gita.

f) What are the major differences between individualism in Western Management Theories and collectivism in Indian Knowledge System?

g) What is the significance of "Yagna" in Indian leadership principles?

h) Define the term. "Jugaad" and explain its significance in Indian entrepreneurship

Q2) **Answer any Two :** **[10]**

a) Discuss the key leadership qualities of Shivaji Maharaj, particularly in times of adversity.

b) Explain the ethical dilemmas faced by leaders in the Bhagavad Gita and how they are resolved.

c) Compare and contrast Indian Knowledge Systems (IKS) and Western Management Theories (WMT) on the approach to decision-making.

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

a) Analyze how the Bhagavad Gita's teachings on self-awareness and self-management can be applied to leadership in a contemporary business environment.

b) Compare the concepts of "Sustainability" in Indian Knowledge Systems and Western management practices, focusing on ethical decision-making.

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

a) Design a leadership training program for an organization that incorporates the Bhagavad Gita's principles on self-awareness, resilience, and motivation.

b) Discuss how Shivaji Maharaj's principles of governance can be applied in modern management settings.

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

a) Critically assess the role of emotional intelligence in leadership, using examples from the Bhagavad Gita and contemporary organizations.

b) Evaluate the impact of family and community roles in the sustainability and growth of Indian businesses, with examples.

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