# Computer Science

**NEW SYLLABUS** 

Full-Marks: 100 (75T+25P)

Teaching hours: 150

#### Introduction:

Information Technology has become a part of contemporary society and as a potential tool in the socio-economic development of country. As Information technology manpower is the backbone for the rapid development of ICT sector in the country, government of Nepal has accordingly identified IT as a priority sector. Keeping in view the importance of computer technology in general and indispensability of its knowledge and skill to the society in general and to the students of higher secondary level in particular, the course seeks to introduce computer science to acquaint the learner with the basic skills of computer literacy.

## II. General Objective:

The general objectives of its course are to:

- 1. help establish a strong foundation for the development of internationally competent Human Resources in the field of Information Communication and Technology;
- 2. help decrease the Digital Divide; and
- 3. fulfill the middle level ICT Human Resources.

## III. Specific Objective:

After completing this course, the student will be able to:

- 1. state the fundamental principle of computer system mechanism and information technology;
- 2. identify computer recourse for any specific purpose PC based application in the real life situations:
- 3. solve the office automation related system problems, general networking problems, and web site design;
- provide computing knowledge and skill to individuals or organization;
- 5. engage in higher study of computer science and information technological course in the country or aboard;
- provide the services as instructor of computer sciences course in schools or institutions;
- 7. discuss programming tool technique and concept about database and C programming;
- 8. discuss the state-of-art information technology and works to change agents for spreading ICT culture in their society; and
- 9. encourage the students to visit the hardware and software industries, e-communities centers.

## IV. Course Contents:

## UNIT 1: SYSTEM DEVELOPMENT CONCEPT

- Introduction: System, Information System
- 1.2 Types of Information System
- 1.3 System Analyst - roles, responsibilities and characteristics 1.4
- System development Life Cycle (SDLC) 1.5
- Importance and the necessity of SDLC
- 1.6 System Development Models: Waterfall, Prototype, Spiral
- 1.7 System Development Phase
  - 1.7.1 System Study
  - 1.7.2 System Analysis Feasibility Analysis
  - 1.7.3 Feasibility Study: Technical, Economical, Operational
  - 1.7.4 System Design
  - 1.7.5 System Development
  - 1.7.6 System Testing
  - 1.7.7 Implementation
  - 1.7.8 Maintenance and Reviews

- 1.8 Concept of System Design Tools (Context Diagram, DFD, E-R Diagram, System Flow Chart, Decision Table, Decision Tree, Use Case, UML)
- 1.9 Case Study

#### **UNIT 2: DATABASE**

- 2.1 Concept of Database
  - 2.1.1 Introduction: Data, Information, Database and DBMS
  - 2.1.2 Objectives of DBMS
  - 2.1.3 Database Model: Relational Model, Network Model, Hierarchical Model, Entity Relational Data Model
  - 2.1.4 Concept of Normalization
  - 2.1.5 Types of Normalization 1NF, 2NF, 3NF
  - 2.1.6 Structured Query Language
  - 2.1.7 Centralized Vs. Distributed Database
  - 2.1.8 Data Security
- 2.2 Design Database using DBMS Software
  - 2.2.1 Create a Database
  - 2.2.2 Create Tables and Fields and its properties
  - 2.2.3 Create a Relational Databases
  - 2.2.4 Create and Run Queries
  - 2.2.5 Working with Forms
  - 2.2.6 Generate Reports
  - 2.2.7 Formatting Forms and Reports
- 2.3 Project Work on DBMS Software

## **UNIT 3: COMMUNICATION AND NETWORKING**

- 3.1 Introduction: Definition, Purpose of networking
- 3.2 Analog and Digital Signal, Modulation (AM, FM, PM)
- 3.3 Direction of communication flow (Simplex, Halfduplex,)
- 3.4 Types of Network: Peer-to-peer and Client/Server, LAN, MAN and WAN
- 3.5 LAN Topologies: Bus, Star, Ring, Tree, Mesh Topologies (Its definition, structure, advantages & disadvantages)
- 3.6 Transmission Media: Bound Media (Coaxial Cable, Twisted Pair cable and Optical Fiber Cable its description, structure, advantages and disadvantages), Unbound Media (Satellite, Wireless Media, Microwave Transmission)
- 3.7 Network Connecting Device: Modern, NIC, Switch / Hub, Router, Gateway, Repeater, Bluetooth, IR, WiFi
- 3.8 OSI Reference Model Layer wise use and function
- 3.9 Communication Protocol: TCP/IP, SMTP, POP3, FTP, HTTPs, Telnet protocol
- 3.10 Demonstration of Communication Media and Connecting Devices

## **UNIT 4: PROGRAMMING IN C**

- 4.1 Introduction:
  - 4.1.1 Overview, History, Features, Advantages and Disadvantages of C Language
  - 4.1.2 Structure of C program
  - 4.1.3 Compiling Process \*
  - 4.1.4 C Pre-processor and Header Files
- 4.2 Fundamentals of C
  - 4.2.1 Character Set used in C
  - 4.2.2 Use of Comments
  - 4.2.3 Identifiers and Keywords and Tokens
  - 4.2.4 Data Types in C
  - 4.2.5 Constants and Variables
  - 4.2.6 Type of Specifier
  - 4.2.7 Statements Simple and Compound Statements

\*4.3 Operators and Expressions

4.3.1 Operators : Precedence & Associatively

4.3.2 Expressions

4.3.3 Type Casting and Conversions

4.3.4 Introduction to Library Functions

4.4 Input/Output (I/O) Functions

4.5 Control Structures

4.5.1 Decisions (if, if - else, else if, switch, ?; operator)

4.5.2 Looping (while, do while, for)

4.6 Array and String

4.6.1 Definition of array and string

4.6.2 Types of Array - One-Dimensional and Two-Dimensional (definition, declaration, and initialization.)

4.6.3 String Function: strlen(), strcat(), strcmp(), strrev(), strcpy(), strlwr(), strupr()

4.7 Functions

4.7.1 Concept of Function, function definition, function prototype

4.7.2 Return and Void statements of a function

4.7.3 Accessing a Function - Function Call (by value, by reference)

4.7.4 Concept of Recursion

4.8 Structures and Unions

4.8.1 Definition and Difference between Structure and Union

4.8.2 Structure: Declaration, Initialization and Size of Structure

4.9 Pointers

4.9.1 Definition of Pointer

4.9.2 Address (&) and indirection (\*) operator

4.9.3 Pointer Expression and Assignment

4.10 Working with Files

4.11 Concept of Data File

4.12 Sequential and Random File

4.13 Opening, Reading, Writing and Appending on/from Data File

# UNIT 5: OBJECT-ORIENTED PROGRAMMING (OOP)

5.1 Concept of OOP

5.2 Features of OOP: Class, Object, Polymorphism and Inheritance

5.3 Application of OOP

5.4 Difference between OOP and Structured Programming Language

# UNIT 6: INFORMATION COMMUNICATION TECHNOLOGY AND CYBER LAW

6.1 Social Impact of the ICT

6.2 Digital Divide

6.3 Computer Ethics

6.4 Intellectual Properties Right

6.5 Privacy, Anonymity

6.6 Computer Crime

6.7 Concept of Cyber Law

6.8 Area of Cyber Law

6.9 Cyber Law in Nepal

6.10 IT Policy in Nepal

## UNIT 7: MULTIMEDIA

7.1 Introduction to Multimedia

7.2 Component of Multimedia: Text, Graphics, Audio, Video and Animation

7.3 Application of Multimedia

## **UNIT 8: ARTIFICIAL INTELLIGENCE**

- 8.1 Concept of Al
- 8.2 Component of Al
- 8.3 Uses of Al
- 8.4 Ethical Aspect of Al

## UNIT 9: CONTEMPORARY TECHNOLOGY

- 9.1 e- Business
- 9.2 e-Learning
- 9.3 e-Governances
- 9.4 e-Medicine
- 9.5 Virtual Reality
- 9.6 Robotics

## UNIT 10: FINAL PROJECT WORK

- 10.1 Project Synopsis of the Project
- 10.2 Project Development using C Programming
- 10.3 Project Report

(Project should be assigned to individual students.)

- V. Instructional Materials:
- To be guided by Teaching Manual
- VI. Instructional Techniques:
- To be guided by Teaching Manual

## VII. Evaluation Schemes

### Theory Evaluation:

- Short Questions
- Long Questions
- · Short Notes

Theory Questions are guided by marks distribution and model questions.

#### Practical Evaluation

S. No.	Unit	Topics	No of Exercise	Mini Projects Evaluation	Remarks
1	2.2	Database Management System	10	. 10	Practical Marks Evaluated by
- 2	3.10	Networking	2		External Examiner: 10
3	4	C programming Language	30	15	Internal Examiner: 15 Based on Mini Project, Lab, Exercise and Final
4	10	Final Project .			Projects

Lab exercises are guided by marks distribution and Teaching Manual.

## VIII. Marks and hours distribution

	Mark D	istribution	Number	r of Hours
Units -	Theory	Practical	Theory	Practica
1	.10		15	
2	15	10	√ 15	15
3	10		15	3
4	25	15	30	30
5	3	Transport to the same	6	
6	3		6	
7	. 3		4	XXXX
8	2		3	Corp Baket.
9	4		8	
10	PANAL STATE			100
Total	75	25	102	48

#### IX. Reference books:

- Gurung, J.B.; Baskota, A; Baral, D.S.; Baral, D.; Niroula, R.; Dhakal, T.P., A Text Book on Computer Science Part-B, Kathmandu: Bhundipuran Prakashan.
- Subba, B.R., Computer Science Grade-XII, Kathmandu: Taleju Prakashan.
- Baral, D.S.; Baral, D.; Ghimire; S.K. (2008), The Secretes of C Programming Language, Kathmandu: Bhundipuran Prakashan.
- Subba, B.R., Computer Programming, Kathmandu: Taleju Prakashan.
- Khanal, R. C. (2007), Computer Concept for Grade XII, Kathmandu: Ekata Publication.
- Pudasaini, D. Shakar, Adhikari, N., A Text Book on Computer Science Grade XII, Kathmandu: Buddha Academic Enterprises Pvt. Ltd.
- Balaguruswamy, E. (2000), Programming in ANSI C, Second Edition, Tata McGraw Hill Publishing Company.
- Gottfried, B.S. (2001), Schaum's Outline Series for Programming with C, Second Edition, Tata McGraw Hill Publishing Company.
- Yashavant, P. Kanetkar (2008), Let Us C E/D, BPB Publications.
- URL: http://en.wikipedia.org/

## **MODEL QUESTIONS- 2067**

Full Marks: 75

Time: 3 hours

Pass Marks:27

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group A (Long Answer Questions)

Attempt any FOUR Questions.

[4×10= 40]

- 1: What is Entry-Relationship Data Model? Give an ER-diagram for a database showing fatherhood, motherhood and spouse relationship among men and women. [4+6]
- The rate of interest offered by a bank on fixed deposit:
  - Period < 6 month 5%
  - Period 6 to 12 month 6%
  - iii. Above 1 year 10%

Write a flowchart and program using C language to calculate monthly interest of customer.

[3+7]

- 3. Write a program that reads several different names and addresses into the computer, rearrange the names into alphabetical order. Make use of structure variables.
- 4. Write a program that will read successive records from the new data file and display each record on the screen in an appropriately formatted form. [10]
- Write a program with function and input menu from keyboard and activate these functions:
  - print a circle ()
  - ii. revere string ()

[10]

## Group B (Short Answer Questions)

Attempt any SEVEN Questions.

[7×5= 35]

- 6. What is feasibility study? Why feasibility study is important in system analysis phase? Explain. [2+3]
- 7. What are the different types of LAN topology? Write merits and demerits of Star Topology. [2+3]

8. Write short notes on (any two):

- (a) Coaxial cable (b) Fiber-Optic Cable (c) Switch
- Differentiate between array and structure with suitable examples. [2.5+2.5]
- 10. What do you mean by parameter 'Passing by value' and 'Passing by reference' in C? Explain with suitable example. [2.5+2.5]

	Computer Science 215
11. Explain the terms Polymorphism and inheritance.	[2.5+2.5]
12. Describe the limitations of using getchar() and putchar() function	ns for reading strings. [2.5+2.5]
13. What do you understand by AI? How it may effect the society?	[3+2]
14. Write short notes on (any two):  (a) Cyber Law (b) Normalization (c) Context Diagram	[2.5+2.5]

# UNIT 1: SYSTEM DEVELOPMENT CONCEPT

SHORT ANSWER QUESTIONS	The state of the s
1. 2073 Set C Q.No. 6	
What are the major activities in SDLC with based on waterfall model?	[5]
2. 2073 Set D Q.No. 7	
Write the importance and necessity of SDLC.	[5]
3. 2072 Set C Q.No. 6	
Describe SDLC with diagram.	[5]
4. 2072 Set D Q.No. 6	In what here her
Describe the components of feasibility study.	[5]
5. 2072 Set D Q.No. 7	14.10
Who is system analyst? List out characteristics of system analyst.	[1+4]
6. 2072 Set D Q.No. 8	
Describe system flowchart with diagram.	[5]
7. 2072 Set E Q.No. 6	(0,0)
What is feasibility study? Explain different levels of feasibility study.	[2+3]
8. 2072 Set E Q.No. 9	n, [1+4]
What is E-R diagram? Explain the advantage of E-R diagram in system desig	11, [179]
9. 2072 Set E Q.No. 13	[5]
Write the importance of SDLC.	[o]
10. 2071 Supp Q.No. 6	[2+3=5]
What is feasibility study? Why it is necessary before designing a system?	[2.0-0]
11. 2071 Supp Q.No. 11 OR	[1+4]
What is expert system? Explain the fields of expert system.	11.71
12. 2071 Set C Q.No. 6	[5]
What is system analysis and design? Describe briefly.	[0]
13. 2071 Set D Q.No. 6	[5]
Describe different levels of feasibility study.	[0]
14. 2071 Set D Q.No. 7	[1+4]
Who is system analyst? List out the rolls of system analyst.	L'A
15. 2070 Supp Q.No. 6 Explain SDLC with appropriate diagram.	[5]
16. 2070 Set C Q.No. 6	. It is a state of the
What is feasibility study? Explain different levels of feasibility study.	[1+4]
17. 2070 Set D Q.No. 6	
What is system? Explain the basic elements of system.	[1+4]
18. 2070 Set D Q.No. 7	
Who is system analyst? List out roles of system analyst.	[1+4]
19. 2069 Q.No. 6	NO BULL STREET
Explain different stages of system development life cycle with clear figure.	[5]

	######################################	
	20. 2068 Cancelled Q.No. 4	Le Section
	What is feasibility study? Why feasibility study is important in system analysis phase?	Explain. [2+5]
	21. 2068 Cancelled Q.No. 8	
	Who is system analyst? Highlight the characteristics of a good analyst.	[2+5]
	22. 2068 Cancelled Q.No. 10	12.91
	What are the documentation techniques? Explain with an example.	[7]
	23. 2068 Q.No. 5	[7]
	What is feasibility study? Explain different levels of feasibility study.	[0.5]
	24. 2068 Q.No. 7	[2+5]
,	Define program logic. Explain different types of program logic tools.	10 51
	25. 2068 Q.No. 8	[2+5]
į	What is system analysis? What are the major objectives of system analysis? Ex 26. 2067 Q.No. 4	plain. [2+5]
	What is system analyst? Explain the major roles of system analyst.	[[2+5] = 7]
	27. 2067 Q.No. 5	
	What is feasibility study? Explain the different levels of feasibility study.	[[2+5] = 7]
	28. 2066 Q.No. 5	
	Explain about the system design methodologies.	. [7]
	29. 2066 Q.No. 8	
	Explain about the importance of computer security in this knowledge based social	ety. [7]
	30. 2066 Q.No. 9	
	What are the different program logic tools? Explain about the decision table ar	nd decision tree
ij	with examples.	[2+5]
	31. 2066 Q.No. 11	
	Explain about the different testing techniques during the system development:	[7]
	32. 2066 Supp Q.No. 4	
	How can you test a newly developed system? Explain different types of testing to	echniques
	and the second s	[2+5]
	33. 2066 Supp Q.No. 8	12.01
	Differentiate between decision table and decision tree with example.	[7]
	34. 2065 Q.No. 5	[7]
	Who is a system analyst? Explain the major role of system analyst.	[0.5]
	35. 2065 Q.No. 10	[2+5]
	What is data security? How it can be implemented?	[O F]
	36. 2065 Q.No. 11	[2+5]
		9. /
	What is documentation? Explain the importance of documentation in program de 37. 2064 Q.No. 6	signing. [2+5]
	Who is system analyst? Explain the different stages of system development life of	wale (O.C)
	38. 2064 Q.No. 9	cycle. [2+5]
ğ	What is feasibility study? Explain different levels of feasibility study.	[2,45]
	39. 2064 Q.No. 11	[2+5]
	What do you mean by data security? Explain briefly the type of security me	thods normally
		[2+5]
	40. 2063 Q.No. 4	Charle Balletin
	What is system analysis? Explain the different steps of system development life of	cycle.
	41. 2063 Q.No. 11	7.264.33
	What are the different symbols used to construct a flow chart? Give brief explana-	ation along with
	a neat diagram.	
	42. 2062 Q.No. 4	
	Who is a system analyst? Explain the major role of system and of	And the second s

Who is a system analyst? Explain the major role of system analyst.

[2+5]

#### **UNIT 2: DATABASE**

## LONG ANSWER QUESTIONS

## 1. 2062 Q.No. 2 OR

What do you understand by the term data integrity? Why it is an important thing to be considered while designing a database. State and describe different types of data integrity. [20]

2. 2059 Q.No. 2

a. What do you understand by the term data integrity? Why is it important thing to be considered while designing a database? State and describe different types of data integrity. [5]

b. What is data security? How it can be implemented?

[5]

218

[3+4]

design.

220	Question Bank (Management)- XII	
47.	2059 Q.No. 11	
	Explain the benefits of Centralized Database. What are major responsibilities of a	Database
	Administer? What are the objectives of system analysis?	[2+3+2]
48.	2058 Q.No. 2	
	Name the different models of DBMS. Write short notes on any three of the following: (a) SQL (b) Data Dictionary (c) ERD (d) DDL	[1+6]
49.	2058 Q.No. 3	[1.0]
	What are Domains and Tuples? What are the characteristics of a good data model?	[2+5]
50.	2058 Q.No. 8	70 51
	What is prototyping? Write short notes on any two of the following?  (i) Normalization of data  (b) Data security  (c) RDBMS	[2+5]
51.	(i) Normalization of data (b) Data security (c) RDBMS	
	What is the role of Database Administrator? What are the duties and responsib	lities of a
	System Analyst?	[2+5]
52.	2057 Q.No. 3	
	Define the term RDMBS. State the four guiding principles used in database design.	
WR	ITE SHORT NOTES ON	
	2073 Set C Q.No. 15a	
	DBMS	[2.5]
54.	2073 Set D Q.No. 15b	
	Normalization .	[2.5]
55.	2071 Supp Q.No. 15(ii)	
	Data security	
56.	2071 Set C Q.No. 15 b / 2070 Set D Q.No. 15 a / 2064 Q.No. 12 b / 2062 Q.No. 12(c)	
	Normalization	[3.5]
57.	2070 Set C Q.No. 15 b/2068 Q.No. 12a / 2057 Q.No. 7(a)	[0.5]
58	Data dictionary  2059 Q.No. 5(a)	[2.5]
20.	DML	[3.5]
59.	2057 Q.No. 4(c)	
_	Date modeling	[3.5]
60.	2057 Q.No. 4(b)	[3.5]
	Advantage of DBMS	[0.0]
111	NIT 3: COMMUNICATION AND NETWORKING	
Sec. 1	ORT ANWER QUESTIONS  2073 Set C Q.No. 9	
1.	Describe the Bus and Star topology with suitable diagram.	[2.5+2.5]
2.	2073 Set C Q.No. 10	[2.0 , 2.0]
	Differentiate between guided and unguided networking media.	[5]
3.	2073 Set D Q.No. 6	
	Who is system analyst? Explain the roles of system analyst.	[1+4]
4.	2073 Set D Q.No. 10	
	Explain Bus and Star topology with advantages and disadvantages.	[2.5+2.5]
5.	2072 Set C Q.No. 10	[O+31
6.	Define computer network and explain its uses.  2072 Set C Q.No. 11	[2+3]
٥.	Describe 'simplex', 'half duplex', and 'full duplex' with example.	[1+2+2]
	2000 to 5 million from author fam author man ordinate	1

[5]

Fiber-optic Cable

49. 2060 Q.No. 6(a)
Internet.

50. 2059 Q.No. 5(b)
Bus-Topology

51. 2059 Q.No. 5(c)

Transmission media

LONG ANSWER QUESTIONS	
1. 2073 Set C Q.No. 1	ESTATION OF
2 Describe the suitable to	
Describe the switch statement with example.      What are the difference between this control of the switch statement with example.	[5]
b. What are the difference between while and do while loop? Explain v  2. 2073 Set C Q.No. 2	vith syntax. [3+2]
21.0 0.110. 2	
Write a program to read five positive number using array and find out the 3. 2073 Set C Q.No. 3	e smallest among them I
<ul> <li>a. Describe the string manipulation function in C. Explain stropy and st</li> <li>b. Write a program to demonstrate the value of variable and address of in C.</li> <li>4. 2073 Set C Q.No. 4</li> </ul>	rcmp with example. [2+3 of variable using pointer [5]
Doggil - No. 4	
Describe the function in C. Write a program to find the sum of 'n' integer in C.  5. 2073 Set C Q.No. 5	number using function [4+6]
Differentiate between	
Differentiate between structure and union. Write a program to input the	e employee name and
5. 2073 Set D Q.No. 1	cture. [3+7]
What is loop? Differentiate between while and do-while loop. Describ     Write a program to display first ten even nos.	e with example. [1+4]
b. Write a program to display first ten even nos.  2073 Set D Q.No. 2	[5]
	to knim vesteki i
What is string? Explain any four string handling functions with example.	[2+8]
2010 Oct D Q.NO. 3	
What is array? Write a program to sort twenty integer nos, in ascending or	der. [2+8]
and the same of th	[2.0]
a. Write a program to add two integer nos. using function.	[5]
2. Some simple and compound statements Describe legical	ith example
a. What is pointer? Write its advantages.	i i
b. Write a program to enter name, post and salary of a employee a "employee.dat."	and write it in a file
"employee.dat."	and mino it iii a lile
. 2072 Set C Q.No. 1	
Write a program which find the sum, difference and product of 2 number statement.	rs using switch case
	[10]
. 2072 Set C Q.No. 2	[lo]
Differentiate between while and Do-while loop with appropriate example.      Write a program to display the following.	125.251
b. Write a program to display the following:	[2.5+2.5]
12	[5]
123	
1234	
12345	STATE OF STATE OF
2072 Set C Q.No. 3	
Write a program which and the	
. Write a program which asks nth terms of numbers and sort them in ascendin	g order. [10]
	Lioj
a. What is function? I ist out the advantages of fine.	
<ul><li>a. What is function? List out the advantages of functions.</li><li>b. Write a program to find the factorial of a given number.</li></ul>	[1+4]

	Jan Ball
15. 2072 Set C Q.No. 5	[5]
a. Describe fiscant and fprintf function.	
b. Write a program which asks name, age, roll-number of student and write it in a file student.	iai. [o]
16. 2072 Set D Q.No. 1	[+2+2]
a What is inobling a lescribe in and writing loop with appropriate examples.	[5]
Write a program to check if a given number is odd or even using if statement.	[0]
17. 2072 Set D Q.No. 2	[40]
Describe any five string handling functions with examples.	[10]
18. 2072 Set D Q.No. 3	
What is array? Write a program to find addition of two matrices (3 × 3).	[2+8]
19 2072 Set D Q No. 4	
a. Differentiate between Structure and Union. [2+	5 + 2.5]
b. Write a program to find greatest number among four numbers.	[5]
20. 2072 Set D Q.No. 5	
a. Describe any two file handling functions.	2.5+2.5]
b. Write a program to display name, age and address reading from file "record.dat".	· [5]
21. 2072 Set E Q.No. 1	
Differentiate between "While" and "do-while" loop. Write a program to display first 10	0 even
	[5+5]
numbers using loop.	
22. 2072 Set E Q.No. 2	lay the
What is an array? Write a program to enter 20 integer numbers into an array and disp	[3+7]
greatest number entered.	Mark Street
23. 2072 Set E Q.No. 3	[3+7]
What is a function? Write a function to add two integer number.	[0.1]
24. 2072 Set E Q.No. 4	10.01
What is string? Describe any four string handling functions with examples.	[2+8]
25 2072 Set F O No. 5	Maria Valle
Write a program which reads name, department and age from a file named "employed"	ed. dat".
and display them on the monitor.	[10]
26. 2071 Supp Q.No. 1	
What are the data types available in C programming? Explain in detail with examples.	[10]
27 2074 Supp O No. 2	
What is looping? Write a program to calculate and display the multiplication table using	g nested
loop.	[2+8=10]
28. 2071 Supp Q.No. 3	
Describe the "strcat", "strcpy", "strcmp", "strlen" and "strrev" string functions with example	oles. [10]
29. 2071 Supp Q.No. 4	[10]
Write a program to arrange the elements of an array in ascending order.	(10)
30. 2071 Supp Q.No. 5	a from a
What is "fscanf" function? Write a program to display name, age and address reading	[2+8=10]
file named "record.dat".	[240-10]
31. 2071 Set C Q.No. 1	recursive
What is function? Write a program to generate factorial of a given number using	[2+8]
function.	[2.0]
32. 2071 Set C Q.No. 2	MOL
Describe any five 'file handling function' with examples.	[10]
22 2074 Set C O No 3	1 ra . c
What is looping? Describe 'for loop', 'while loop' and 'do-while loop' with appropriate ex	kamples. [1+6

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34. 2071 Set C Q.No. 4	
Write a program which asks 100 numbers and sort them in ascending order.	[10]
35. 2071 Set C Q.No. 5	
Write a program to find greatest number among four numbers.	[10]
36. 2071 Set D Q.No. 1	
Write a program which reads name of 100 students and sort them in alphabe	etical order. [10] .
37. 2071 Set D Q.No. 2	
Describe 'Sequence", 'Selection' and 'Loop' with flowchart. Write a prognumber is odd or even.	gram to check if a [6+4]
38. 2071 Set D Q.No. 3	
What is pointer? Describe the benefits of pointer with examples.	[4+6]
39. 2071 Set D Q.No, 4	
What is an array? Write a program which finds multiplication table of two ma	trices (3×3). [2+8]
40. 2071 Set D Q.No. 5	J W-1, J J 200
Write a program which reads name, roll-number and age from a file name display them.	ed student.dat and [10]
41. 2070 Supp Q.No. 1	o unina ewitch case
Write a program which finds the sum, difference and product of 2 number statement.	s using switch case [10]
Describe the types of loop with flowchart and examples.	[10]
43. 2070 Supp Q.No. 3	1,01
Write a program which asks the user to input 'n' terms of number and find	out the greatest and
smallest number among those numbers.	[10]
44. 2070 Supp Q.No. 4	
Differentiate between array and structure with suitable examples.	[5+5]
45. 2070 Supp Q.No. 5	
Write a program which asks name, age, roll number of students and "xyz.dat".	write them in a file [10]
46. 2070 Set C Q.No. 1	
What is nested loop? Write a program to display the multiplication table on numbers.	of n <sup>th</sup> terms of given [2+8]
47. 2070 Set C Q.No. 2	7401
Describe any five "string handling functions" with examples.	[10]
48. 2070 Set C Q.No. 3	[10]
Describe array, structure and pointer with examples.	[io]
49. 2070 Set C Q.No. 4	or of employees who
Write a program which reads salary of 25 employees and count the number are getting salary between 30,000 to 40,000.	[10]
50. 2070 Set C Q.No. 5	
Describe fprintf and fscanf file handling functions. Write a program which Nepal* in a file.	writes "welcome to [10]
51, 2070 Set D Q.No. 1	
What is control statement? Describe 'Sequence', 'Selection' and 'Loop examples.	with flowchart and [2+8]
52. 2070 Set D Q.No. 2	abetical and - (40)
Write a program which reads name of 20 employees and sort them in alph	abelical order. [10]
53. 2070 Set D Q.No. 3	[5+5]
Differentiate between structure and union with suitable examples.	[070]

order.

54	. 20	70 Set D Q.No. 4	
	W	hat is recursion? Write a program to calculate factorial value of given number using recu	reiva
	fur		[2+8]
55	20	70 Set D Q.No. 5	2.0]
	W	rite a program which reads name, department and age from a file named "employee.dat"	and
	dis	splay them.	[10]
56		69 Q.No. 1	[10]
	W	hat is looping? Describe "for", "while" and "do-while" loops with appropriate examples.	1+9]
57.	200	69 Q.No. 2	נסדו
	Wi	hat is control statement? Write a program which selects and prints largest among 3 num	horo
	us		2+8]
58.	206	69 Q.No. 3	270]
is II			2+8]
59.	208	69 Q.No. 4	2+0]
	APM CALLS	rite a program to add two matrices by supplying elements of matrices by the user.	14.01
60.	206	69 Q.No. 5	[10]
		rite a program which reads name, department and age from a file named "employee.dat"	
	dis	splay the on the monitor.	
61.	208	68 Q.No. 1	[10]
	TA-225	500 H 2010	with
			1+4]
	b.		oblo
	C.	Write a program to find out factorial of any number.	2+3]
	d.	What do you mean by "local", "global" and "static" variables? Explain with examples. [	[5]
62.	440	58 Q.No. 2	5]
	a.	What is an array? Write down the similarities and differences of array with pointer. [2+:	0 51
		Write a program to road solorion of 200 amplitudes and differences of array with pointer. [24.	3+5]
		Write a program to read salaries of 300 employees and count the number of employ getting salary from 10,000 to 15,000.	
63	206	38 Q.No. 3	[10]
	a.	Miles are area to a series of the series of	
	b.	Write a program to sort an array of 'n' elements in descending order.	[10]
	υ.	Write a program to enter "name", "roll-no" and "marks" of 10 students and store therefore and distribute and store therefore and store the store and store and store the store and store a	
		file. Read and display the same from the file.	[10]
64.	SECTION S	8 Cancelled Q.No. 1	
	a.	Explain data types used in programming with an example.	[5]
	b.	Write a program to read a line text and to convert it into uppercase.	[5]
	C.	Compare "While", "do-while" and "for" loops with an examples.	[5]
	d.	Write a program to find out whether it is an odd number or even number.	[5]
65.		8 Cancelled Q.No. 2	
	a.	What is recursive function? Write a program to calculate the factorial of an integer us	sina
		recursion.	3+71
17	b.	Define pointer. Discuss the relation between the pointer and array with suitable example	es.[2+
66.	206	8 Cancelled Q.No. 3	
	a	Write a program to open a new file and read roll-no, name, address and phone number	er of
		students until the user says "no", after reading the data, write it to the file then display	the
1			[10]
	b.	Write a program to input names of 'n' numbers of students and sort them in alphabe	tical

[10]

	Computer Science	227
67. 20	67 Q.No. 1	
	What is looping? Write a program to print first 10th terms of the following series using	
	loop1 5 9 1 3 [2+3 =	THE PARTY NAMED IN
	Write a recursive function to calculate the factorial of any integer number.	[5]
C.		[5]
d.		- 0]
	How do you do loss on organ 2 Write a greater to see in the statement of	
a.	How do you declare an array? Write a program to arrange the elements of an array ascending order.  [3+7 =	
b.	What is the difference between library function and user-defined function? Write a progr	
	using user-defined function to calculate y raise to power x. /[5+5 =	
69. 20	67 Q.No. 3	
a.		101
b.		10]
70. 20	66 Supp Q.No. 1	
a.		iart
	into program.	[5]
b'.	Define keywords and variables with examples.	[5]
C.		[5]
d.		
	following conditions:	[5]
	Sales amount (Rs.) Commission	
	0-1000 5%	
	1001 – 2000	Dive
	> 2000	
THE KNOWN	66 Supp Q.No. 2	
71. 20 a.	Write a program to store mark obtained by 'n' students and count the number of stude	
THE KNOWN	Write a program to store mark obtained by 'n' students and count the number of stude who obtained mark greater than 70. Also count the number of students who are fail	led
a.	Write a program to store mark obtained by 'n' students and count the number of stude who obtained mark greater than 70. Also count the number of students who are fai (mark < 35). List any five string functions.	led 10]
THE KNOWN	Write a program to store mark obtained by 'n' students and count the number of stude who obtained mark greater than 70. Also count the number of students who are fai (mark < 35). List any five string functions.  [Write a program to input a siring and count the number of consonants containing in	led 10] the
a. b.	Write a program to store mark obtained by 'n' students and count the number of stude who obtained mark greater than 70. Also count the number of students who are fai (mark < 35). List any five string functions.  Write a program to input a siring and count the number of consonants containing in string.	led 10]
a. b.	Write a program to store mark obtained by 'n' students and count the number of stude who obtained mark greater than 70. Also count the number of students who are fai (mark < 35). List any five string functions.  Write a program to input a siring and count the number of consonants containing in string.  [2 66 Supp Q.No. 3]	led 10] the +8]
a. b. 72. 20 a.	Write a program to store mark obtained by 'n' students and count the number of stude who obtained mark greater than 70. Also count the number of students who are fai (mark < 35). List any five string functions.  Write a program to input a siring and count the number of consonants containing in string.  [2  66 Supp Q.No. 3]  Write a program to show data writing and reading operation to/from a data file.  [2	led 10] the +8]
a. b.	Write a program to store mark obtained by 'n' students and count the number of stude who obtained mark greater than 70. Also count the number of students who are fai (mark < 35). List any five string functions.  Write a program to input a siring and count the number of consonants containing in string.  [2  66 Supp Q.No. 3]  Write a program to show data writing and reading operation to/from a data file,  Explain the importance of pointer in C-Programming. Illustrate pointer operations we	led 10] the +8] +8]
a. b. 72. 20 a. b.	Write a program to store mark obtained by 'n' students and count the number of stude who obtained mark greater than 70. Also count the number of students who are fail (mark < 35). List any five string functions.  Write a program to input a siring and count the number of consonants containing in string.  [2  66 Supp Q.No. 3]  Write a program to show data writing and reading operation to/from a data file.  [2  Explain the importance of pointer in C-Programming. Illustrate pointer operations we examples. Show the relationship between array and pointers with example.  [3+3]	led 10] the +8] +8]
a. b. 72. 20 a. b.	Write a program to store mark obtained by 'n' students and count the number of stude who obtained mark greater than 70. Also count the number of students who are fail (mark < 35). List any five string functions.  Write a program to input a siring and count the number of consonants containing in string.  [2  66 Supp Q.No. 3]  Write a program to show data writing and reading operation to/from a data file.  Explain the importance of pointer in C-Programming. Illustrate pointer operations we examples. Show the relationship between array and pointers with example.  [3+3  66 Q.No. 1]	led 10] the +8] +8] vith +4]
a. b. 72. 20 a. b.	Write a program to store mark obtained by 'n' students and count the number of stude who obtained mark greater than 70. Also count the number of students who are fail (mark < 35). List any five string functions.  Write a program to input a siring and count the number of consonants containing in string.  [2  66 Supp Q.No. 3]  Write a program to show data writing and reading operation to/from a data file.  [2  Explain the importance of pointer in C-Programming. Illustrate pointer operations we examples. Show the relationship between array and pointers with example.  [3+3  66 Q.No. 1]  Write an algorithm for a program that input cost price (CP) and selling price (SP) and selling pric	led 10] the +8] +8] vith +4]
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a. b. 72. 20 a. b. 73. 20 a. b. C. d.	Write a program to store mark obtained by 'n' students and count the number of stude who obtained mark greater than 70. Also count the number of students who are fail (mark < 35). List any five string functions.  Write a program to input a siring and count the number of consonants containing in string.  [2  66 Supp Q.No. 3]  Write a program to show data writing and reading operation to/from a data file, Explain the importance of pointer in C-Programming. Illustrate pointer operations vexamples. Show the relationship between array and pointers with example.  [3+3  66 Q.No. 1]  Write an algorithm for a program that input cost price (CP) and selling price (SP) addetermines whether there is gain or loss. Convert this algorithm into program code.  Write a program to display the name of day on the basis of entered number 1 to 7. I example, 1 for Sunday.  Write a program to input an integer number and checks whether it is prime or not.  Explain data types used in C-programming with examples.	led 10] the +8] +8] vith +4] and [5] For [5]
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a. b. 72. 20 a. b. 73. 20 a. b. 74. 20	Write a program to store mark obtained by 'n' students and count the number of stude who obtained mark greater than 70. Also count the number of students who are fail (mark < 35). List any five string functions.  Write a program to input a siring and count the number of consonants containing in string.  [2  66 Supp Q.No. 3]  Write a program to show data writing and reading operation to/from a data file, Explain the importance of pointer in C-Programming. Illustrate pointer operations we examples. Show the relationship between array and pointers with example.  [3+3  66 Q.No. 1]  Write an algorithm for a program that input cost price (CP) and selling price (SP) a determines whether there is gain or loss. Convert this algorithm into program code.  Write a program to display the name of day on the basis of entered number 1 to 7. I example, 1 for Sunday.  Write a program to input an integer number and checks whether it is prime or not.  Explain data types used in C-programming with examples.  66 Q.No. 2  Write a program to store name and mark of 20 students. Sort the data according with min descending order and display them.	led 10] the +8] +8] vith +4] and [5] For [5] [5] ark 10]
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a. b. 72. 20 a. b. 73. 20 a. b. 74. 20 a. b. 75. 20	Write a program to store mark obtained by 'n' students and count the number of stude who obtained mark greater than 70. Also count the number of students who are fail (mark < 35). List any five string functions.  Write a program to input a siring and count the number of consonants containing in string.  [2  66 Supp Q.No. 3]  Write a program to show data writing and reading operation to/from a data file, [2  Explain the importance of pointer in C-Programming. Illustrate pointer operations we examples. Show the relationship between array and pointers with example.  [3+3  66 Q.No. 1]  Write an algorithm for a program that input cost price (CP) and selling price (SP) and determines whether there is gain or loss. Convert this algorithm into program code.  Write a program to display the name of day on the basis of entered number 1 to 7. I example, 1 for Sunday.  Write a program to input an integer number and checks whether it is prime or not.  Explain data types used in C-programming with examples.  66 Q.No. 2  Write a program to store name and mark of 20 students. Sort the data according with me in descending order and display them.  Write a program to find the sum of 'n' integer numbers using function.  66 Q.No. 3  Write a program to store std-no, name and mark of n' students in a data file. Display records in appropriate format reading from the file.	led 10] the +8] +8] vith +4] For [5] [5] ark 10]
a. b. 72. 20 a. b. 73. 20 a. b. 74. 20 a. b. 75. 20	Write a program to store mark obtained by 'n' students and count the number of stude who obtained mark greater than 70. Also count the number of students who are fail (mark < 35). List any five string functions.  Write a program to input a siring and count the number of consonants containing in string.  [2  66 Supp Q.No. 3]  Write a program to show data writing and reading operation to/from a data file, [2  Explain the importance of pointer in C-Programming. Illustrate pointer operations we examples. Show the relationship between array and pointers with example.  [3+3  66 Q.No. 1]  Write an algorithm for a program that input cost price (CP) and selling price (SP) and determines whether there is gain or loss. Convert this algorithm into program code.  Write a program to display the name of day on the basis of entered number 1 to 7. example, 1 for Sunday.  Write a program to input an integer number and checks whether it is prime or not.  Explain data types used in C-programming with examples.  66 Q.No. 2  Write a program to store name and mark of 20 students. Sort the data according with min descending order and display them.  Write a program to store name and mark of 20 students. Sort the data according with min descending order and display them.  Write a program to store std-no, name and mark of n' students in a data file. Display records in appropriate format reading from the file.	led [10] the [+8] +8] with [5] For [5] [5] ark [10] the

76.	2065	5 Q.No. 1	
	a.	Write an algorithm and a flow chart for a program that checks whether the number en	tered
		by user is exactly divisible by 5 but not by 11.	[5]
	b.	Write a program that reads three numbers and displays the largest among them.	[5]
	C.	What is an operator? Explain different types of operations used in programming.	[2+3]
	d.	Write a program to read a four digit number and display it in reverse order.	[5]
77.	2065	5 Q.No. 2	
	a.	Write a program to add two matrices.	[10]
	b.	Write differences between structure and union with syntax.	[10]
78.	2065	5 Q.No. 3	
7	a.	Write a program to enter name, roll-number and marks of 10 students and store the	em in
		the file	[10]
	b.	Write a program to enter 'n' numbers into one dimensional array and sort and display	them
		in ascending order.	[10]
79.	2064	4 Q.No. 1	
	a.	Differentiate between break and continue statements with examples. Write a progra	am to
		print first 10 terms of any series using 'for' loop:	[2+3]
	b.	What is an operator? Explain assignment, Ternary, Comma operators with examples.	[2+3]
	C.	Write a program for reading a data file.	[5]
	d.	Write the advantages of function. Write a recursive function to calculate the factorial of	
		integer number.	[2+3]
80.	206	4 Q.No. 2	
	a.	Describe the importance of an array. Write a program to store ten different constant	10 71
		variables in an array and print out the greatest number.	[3+7]
	D.	Write a program that reads different names and addresses into the computer and sorts	
24	206	names into alphabetical order using structure variables.	[10]
81.	DE 18	4 Q.No. 3	
81.	a.	4 Q.No. 3 Write a program to delete and rename data file using remove and rename command.	[10]
	a. b.	Write a program to delete and rename data file using remove and rename command.  Write a program to count the number of vowels and consonants in a given text.	
	a. b. 206	Write a program to delete and rename data file using remove and rename command.  Write a program to count the number of vowels and consonants in a given text.  3 Q.No. 1	[10]
	a. b. 206	Write a program to delete and rename data file using remove and rename command.  Write a program to count the number of vowels and consonants in a given text.  3 Q.No. 1  What is looping? Write a C program to display the sum of 'n' terms of even numbers.	[10]
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83.	206 a. b. 206 a. b. 206 a. b. c. d. 206 a. b. c. d. 206 a. b. c. d. 206 a.	Write a program to delete and rename data file using remove and rename command.  Write a program to count the number of vowels and consonants in a given text.  3 Q.No. 1  What is looping? Write a C program to display the sum of 'n' terms of even numbers.  Write a C program to calculate the factorial of a given number using functions.  What is an operator? Describe different types of operators that are included in C.  What are the differences between break and continue statement? Write a C program print first 10 terms of the following series using FOR loop.1, 5, 9, 13,  3 Q.No. 2  What is an array? Write a C program to sort integer values in descending order.  Write a C program to read age of 40 students and count the number of students of the between 15 and 22.  3 Q.No. 3  Differentiate between structures and pointers with examples.  Write a C program design a menubase system which has the following features:  (i) Appending record (ii) Reading record (iii) Delete record (iv) Quit 22 Q.No. 1  Write a C program to print the 10 positive integers and their factorials.  Differentiate between while and Do while loop with suitable examples.  For any integer input through the keyboard, write a C program to find out whether it odd number or even number.  Write a C program to input 'n' numbers and find out greatest and smallest number.  Write a C program to input 'n' numbers and find out greatest and smallest number.  By Q.No. 2  Draw a flowchart and write a C program to read in a positive integer less than 2 display its multiplication table.	[10] [10] am to [20] [10] e age [10] [10] [5] is an [5] [5] 0 and [10]
83.	206 a. b. 206 a. b. 206 a. b. c. d. 206 a. b. c. d. 206 a. b. c. d. 206 a.	Write a program to delete and rename data file using remove and rename command.  Write a program to count the number of vowels and consonants in a given text.  3 Q.No. 1  What is looping? Write a C program to display the sum of 'n' terms of even numbers.  Write a C program to calculate the factorial of a given number using functions.  What is an operator? Describe different types of operators that are included in C.  What are the differences between break and continue statement? Write a C program print first 10 terms of the following series using FOR loop.1, 5, 9, 13,  What is an array? Write a C program to sort integer values in descending order.  Write a C program to read age of 40 students and count the number of students of the between 15 and 22.  3 Q.No. 3  Differentiate between structures and pointers with examples.  Write a C program design a menubase system which has the following features:  (i) Appending record (ii) Reading record (iii) Delete record (iv) Quit Siz Q.No. 1  Write a C program to print the 10 positive integers and their factorials.  Differentiate between while and Do while loop with suitable examples.  For any integer input through the keyboard, write a C program to find out whether it odd number or even number.  Write a C program to input 'n' numbers and find out greatest and smallest number.  32 Q.No. 2  Draw a flowchart and write a C program to read in a positive integer less than 2	[10] [10] am to [20] [10] e age [10] [10] [5] is an [5] [5] 0 and [10]

[10]

[8]

[5×4]

87. 2062 Q.No. 3

a. Write an algorithm and C program to read salaries of 200 employees and count the number of employees getting salary between 5,000 – 10,000.

[10]

b. Write a C program that will read successive records from the new data file and display each record on the screen in an appropriate format.
[10]

88. 2061 Q.No. 1

The marks obtained by a student in 7 different subjects are entered through the keyboard.
 The student gets a division as per the following rules.

Percentage greater or equal to 60 first division
Percentage between 45 and 59 second division
Percentage between 35 and 44 third division
Percentage less than 35 fail

Mark less than 35 in a subject will be declared as fail

Write a program using C language to process result of all students based on the specification state above.

 Write a program that reads different names and addresses into the computer and rearrange the names into alphabetical order using the structure variables.

89. 2061 Q.No. 1(b)OR

Describe either in flowchart or algorithm the steps required to display the multiplication table of a series of given numbers (entered by the user). Convert the flowchart or algorithm into program of any the 4GL or HLL of your choice. The program should use the 'For' looping structure in calculating and displaying the multiplication table. [20]

90. 2061 Q.No. 2

Write a program using C language to read the age of 100 persons and count the number of persons in the age group between 50 and 60. Use 'For' and 'continue' statements.

[10]

b. Differentiate between while and do while loop. What are the advantages of object oriented programming over structured programming? [5+5]

91. 2061 Q.No. 3

Write a program using C language that reads successive records from the new data file and display each record on the screen in an appropriate format.

[10]

b. What is pointer? Explain the meaning of each of the following declarations: [2.5+7.5]

(i) int \*p; (ii) int \*p[10]; (iii) int (\*) [10] (iv) int \*p [void]; (v) int \* P(char \*a);

92. 2060 Q.No. 2

 a. Write a program to store Kathmandu Valley's 7days maximum and minimum temperature (in centigrade) and calculate average, maximum, minimum temperature using function and print 7 days temperature, maximum, minimum and average temperature using any high level programming language. [12]

b. Write a algorithm to solve the above calculations

93. 2060 Q.No. 3

Write a programme to input a message from keyboard and display the menu.

Print the message length in term of characters.

b. Print the message in reverse order.

c. Print the message in capital letters.

d. Copy the message from one location of screen to another location.

94. 2058 Q.No. 2

Describe either in flowchart or algorithm form the steps required to display the multiplication table of a given number (inputted by the user). Convert this flowchart/ algorithm into program code of the 4GL or HLL of your choice. The program should used the 'FOR' looping structure to calculate and display the multiplication table.

[10+10]

95. 2058 Q.No. 3

A higher secondary school has asked you to write a HLL program to help them analyze their class test scores. The program must firm ask for the number of students 'n' and should have a looping structure that loops through 'n' times to accept, valuable and store the data in any array. The structure for each student is given below:

230	Question Bank (Manag	ement)- XII				
Field name	field typ	field type		Validation ru	Validation rules	
Roll	numeric		2.0	1-99		
Name	alphabet	ic	25.0			
Marks	numeric		2.1	0.0-10.0		
The program			<b>建设的企业</b>			
a. Print out t	he data for students wh	no have failed (ol	otained marks < 4	.0)		
. b. Print out t	he data for students so	oring more than	7.9.			
c. Print out t	he average class mark				[10]	
96. 2057 Q.No. 2						
Write an algor	ithm and draw a flowch	art to enter name	es of the students	and ages of 10	different	
	ays, then arrange them					
97. 2057 Q.No. 3						
An organization	on has 5 stores and it of	deals in items. T	he stock position	of these items is	shown	
below.			action in the			
MESSAGE	Item 1	Item 2	Item 3	Item 4		
Store 1	30	35	0	0		
Store 2	20	0	25	0		
Store 3	80	175	25	35		
Store 5	10	80	15	40	DURA TELEP	
	mputer program in any			The second secon	class to	
SHORT ANSWER Q 98. 2073 Set C Q.N	UESTIONS OF THE PROPERTY OF TH				[20]	
What is variab	oles in programming? Li	st out the differe	nt data types in C	program.	[2+3]	
99. 2073 Set C Q.N	0.12		CHI TO PROVIDE			
Describe the	different mode of file ha	ndling concept in	C.		[5]	
100. 2072 Set C Q						
Contract Con	etween array and struc	ture with example	0		1 151	
	the same of the sa	ture with examp	<b>6.</b>		[5]	
101. 2072 Set E Q.	AND DESCRIPTION OF THE PARTY OF	011		VI I I I I I I I I I I I I I I I I I I		
The second secon	data types used in C pr	ogramming? List	Out.	<b>外</b> 海南西亚岛	[5]	
102. 2071 Supp Q.			A THE STATE OF			
What are ope	rators used in C program	mming? Explain	with examples.		[5]	
103. 2071 Supp Q.	No. 9		的智能學們有關於			
Explain the ar	ray and structure with e	examples.		12.5	5+2.5=5]	
104. 2071 Set C Q						
The state of the s	different data types which	sh are used in C	programming		[61]	
The Property of the Party of th		on are used in C	-programming.		[5]	
105, 2071 Set D Q.	the second section of the section of the second section of the section of t					
	erators" which are used	in C-programmi	ng.		[5]	
106. 2070 Supp Q.	No. 11					
What is opera	tor? Describe the types	of operators wit	h appropriate exa	imples.	[1+4]	
107. 2070 Set C Q	No. 11					
Differentiate b	etween "While" and "D	o-While" loop wit	h flowchart.		2.5+2.5]	
108. 2070 Set D Q	THE RESERVE TO SHARE THE PARTY OF THE PARTY			And the second	ST THE ELE	
De Feetle - the	I a la l	11 0		CHANGE TO BE FOR		

[5]

[5]

Describe the data types which are used in C programming.

Differentiate between array and structure.

109. 2069 Q.No. 8 Or

110. 2065 Q.No. 9 /	
Differentiate between while and do-while loop.	[3.5+3.5]
111. 2062 Q.No. 9	7
Describe the limitation of using getchar and putchar functions for reading strings.  [112. 2061 Q.No. 10]	- [7]
Differentiate between array and structure	[7]
113. 2059 Q.No. 10	
In event driven programming what is event handler? Explain the term 'recession'.	[7]
What is Program Logic? What are different tools to explain the logic and design of	a program?
What is infinite loop? What are symbols used to draw a flow chart?	[1+3+1+2]
(A)	State of the
UNIT 5: OBJECT-ORIENTED PROGRAMMING (OOP)	
SHORT ANSWER QUESTIONS	
1. 2073 Set D Q.No. 11	* 1
Explain class and object.	[2.5+2.5]
2. 2072 Set D Q.No. 12	N A
What is OOP? List the characteristics of OOP.	[1+4]
3. 2071 Supp Q.No. 14 Explain the terms polymorphism and inheritance.	[5]
4. 2071 Set C Q.No. 12	[9]
What is OOP? List the advantages of OOP.	[1+4=5]
5. 2071 Set D Q.No. 11	
Describe the importance of OOP.	[5]
6. 2070 Supp Q.No. 12 .	
What is OOP? List out the advantages of OOP.	[1+4] -
7. 2070 Set C Q.No. 12	(5)
What is procedural oriented programming? Explain,	[5]
Explain polymorphism and inheritance with examples.	[2.5+2.5]
9. 2069 Q.No. 14	[2.0 2.0]
Write the advantages and disadvantages of OOP	[5]
10. 2068 Cancelled Q.No. 5	
What is object-oriented programming? How it is different from the proced	
programming?	[2+5]
Why polymorphism and inheritance are important concepts of OOP? Explain.	[7]
12. 2067 Q.No. 9	
Explain the terms polymorphism and inheritance.	[7]
13. 2066 Supp Q.No. 11	
Explain the characteristics of objects oriented programming.	[7]
14. 2065 Q.No. 8	
Define the terms polymorphism and inheritance with examples.	[3.5+3.5]
[15. 2063 Q.No. 5] Explain the terms Polymorphism and Inheritance.	[7]
16. 2062 Q.No. 8	11
Why polymorphism and inheritance are important concepts of OOP? Explain.	[7]
사용하는 집에 보고 있는데 그렇게 되었다면 생각이 있었다면 하고 있는데 계속 집에 되었다면 하는데 집에 되었다면 되었다면 되었다면 하는데 없었다면 하는데 없다면 하는데 없었다면 하는데 없었다면 하는데 없었다면 하는데 없었다면 하는데 없다면 하는데 없다면 하는데 없다면 하는데 없었다면 하는데 없다면 하는데 없다면 하는데 없었다면 하는데 없다면 하는데 없었다면 하는데 없었다면 하는데 없었다면 하는데 없었다면 하는데 없었다면 하는데 없다면 하는데 없다면 하는데 없다면 하는데 없었다면 하는데 없었다면 하는데 없었다면 하는데 없었다면 하는데 없었다면 하는데 없다면 하는데 없었다면 하는데 없다면 하는데 없다면 하는데 없다면 하는데 없다면 하는데 없다면 하는데 없다면 하	

	Computer Science	233
4.	2072 Set D Q.No. 13	
	What is multimedia? List out the components of multimedia.	[1+4]
5.	2072 Set E Q.No. 11	
	What is multimedia? Explain.	[1+4]
6.		
	Define multimedia. List the advantages and disadvantages of multimedia.	[1+4]
7.	2071 Set C Q.No. 14	(5)
de	Describe the advantages of multimedia.	[5]
8.	2071 Set D Q.No. 13	14 . 41
	What is multimedia? List out the advantages of multimedia.	[1+4]
9.	2070 Supp Q.No. 13	[1+4]
40	What is multimedia? List out the advantages of multimedia system.	[1, 7]
10.	2070 Set C Q.No. 14  What are the components of multimedia? Explain.	[5]
11	2070 Set D Q.No. 13	
=12 (	List out the advantages and disadvantages of multimedia.	[5]
12.	. 2069 Q.No. 12	
	What is multimedia? What are the components of multimedia? List out.	[1+4]
13.	. 2064 Q.No. 7	10 13
	What is computer animation? How is it used in film making industry?	[2+5]
14.	. 2063 Q.No. 9	
	Define the term multimedia. Explain the application areas of multimedia.	
15	. 2060 Q.No. 12  What is multimedia? Explain its application areas.	[3+4]
16	. 2057 Q.No. 9	[0 .1
-	What is computer animation? How is it used on one film making industry?	[3+4]
UI	NIT 8: ARTIFICIAL INTELLIGENCE	
SH	ORT ANSWER QUESTIONS	
1.	2073 Set D Q.No. 12	
	What is Al? Explain cyber law.	[2+3]
2.		(6)
N.	Describe applications of Al.	[5]
3.		[2+3]
-	What is AI? What are the uses of AI?	[2+3]
4.		[5]
F	Describe the application areas of Al.	[0]
5.	What is Al? Explain the application areas of Al.	[1+4]
6.	2070 Set C Q.No. 13	
200	What is AI? Explain the application areas of AI.	[1+4]
7.		# # # # # # # # # # # # # # # # # # #
	What is AI? Describe the application of AI.	[5]
8.		
_	What do you understand by AI? How it affects the modern society?	[2+5]
9.	What do you understand by AI? How it affects the society? Explain the terms polyn	nornhism
	and inheritance in terms of OOPs.	[1+2+4]
	and inheritance in terms of OOFs.	1. 2.1

#### 10. 2061 Q.No. 12

What do you understand by AI? How it effects the modern society?

[3+4]

## 11. 2059 Q.No. 8

What do you understand by AI? How it may affect the society? Explain the terms polymorphism and inheritance in terms of cops. [Note: From units 4 & 5] [2+2+3]

## 12. 2057 Q.No. 7

Who does an Al application work? Can a computer really think with the aid of Al?

### WRITE SHORT NOTES ON

## 13. 2060 Q.No. 6(b)

Application of Al.

[3.5]

[2.5]

## UNIT 9: CONTEMPORARY TECHNOLOGY

SH	ORT ANSWER QUESTIONS	
1.	2073 Set D Q.No. 14	
	Define the terms e-learning and virtual reality.	[2.5+2.5]
2.	2072 Set C Q.No. 13	(4.0 4.0)
	What is E-governance? List out the objectives of E-governance.	[1+4]
3.	2072 Set E Q.No. 12 OR	
	Define the terms e-business and e-learning.	[2.5+2.5]
4.	2071 Supp Q.No. 11	
	What is e-governance? List the importance of e-governance.	[1+4]
5.	2071 Set D Q.No. 14	Awar da
	Describe the objectives of e-governance.	[5]
6.	2070 Supp Q.No. 15	
	List out the advantages and disadvantages of e-business.	[5]
7.		[0]
	What are the objectives of e-governance? Explain,	[5]
8.	2069 Q.No. 11	
	What are the key challenges of implementing e-governance in developing countries?	[5]
9.	2066 Supp Q.No. 7	
	What is e-commerce? Explain its role to enhance the digital economy.	[2+5]
10.	2060 Q.No. 11	
	What is e-commerce? Write impact of e-commerce technology in our society.	[3+4]
11.	2058 Q.No. 7	
	What do you mean by 'e-commerce'? Distinguish between WWW (World Wide	Web) and

Internet? What is multimedia? What are the hardware devices required by a personal computer to make it 'multimedia capable'? [2+2+1+2]

#### WRITE SHORT NOTES ON

## 12. 2072 Set D Q.No. 15b

E-learning.			[2.5]
13 2074 Set C O No	45 - 17007 O N- 75 10		[]

# E-commerce

## 14. 2070 Set C Q.No. 15 a

E-learning [2.5]