Puspa Shrestha

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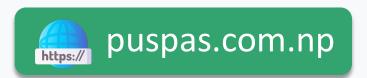
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Computer Science

Syllabus

Full Marks: 100

Teaching Hrs: 150

I. 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 this 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 fulfill the middle level ICT Human Resources to the ICT industries.

III. Specific Objective:

- 1. After completing this course, the student will be able to:
- 2. explain the fundamental principle of computer system mechanism and Information and Communication Technology;
- 3. identify computer recourse for any specific purpose PC based application in the real life situations;
- 4. solve the office automation related system problems, general skill about network, internet, email and web site design;
- 5. provide computing knowledge and skill to individuals or organization;
- 6. engage in higher study of computer science and information technological course in the country or aboard;
- 7. provide the services as instructor of computer sciences course in schools or institutions;
- 8. state programming concept and tools;
- 9. explain the state-of-art information technology and works to change agents for spreading ICT culture in their society; and
- 10. encourage the student for visit the hardware and software industries, e-communities centers.

IV. Course Contents:

Course Contents

JNIT-1 Introduction and Evolution of Computer

- 1.1 Concept and Characteristics of Computer
- 1.2 Application of Computers
- 1.3 History of Computer: Mechanical Calculating era, Electro-Mechanical era, Electronic computers era
- 1.4 Generation of Computers: First, Second, Third, Fourth and Fifth Generation (AI) and its features
- 1.5 Computer speed and Measurement Unit

UNIT-2 Classification of Computer

- 2.1 On the basis of working principle Analog, Digital and Hybrid Computers
- 2.2 On the basis of size Super, Mainframe, Mini and Microcomputers
- 2.3 On the basis of brand IBM PC, IBM Compatible and Apple/Macintosh
- 2.4 Mobile Computing

UNIT-3 Number System and Their Conversion

- 3.1 Decimal, Binary, Octal, Hexadecimal Number System & conversion
- 3.2 9's and 10's complements decimal subtraction
- 3.3 Calculation in Binary addition, subtraction, One's and Two's Complement Methods of binary subtraction

UNIT-4 Logic Function and Boolean Algebra

- 4.1 Logic Function and Boolean Algebra
- 4.2 Introduction of Truth Table, Boolean Expression
- 4.3 Logic Gates -AND, OR, NOT, NAND, NOR, XOR and XNOR its definition, use, truth table, logic symbol
- 4.4 Duality Principle
- 4.5 Laws of Boolean Algebra Associative, Commutative, Distributive, Identity, Complement Laws
- 4.6 De Morgan's Theorem: Statement and Logic Expression
- 4.7 Venn diagram and its represent of logic gates(AND, OR, NOT)

UNIT-5 Computer Systems

- 5.1 Concept of Computer Architecture
- 5.2 Concept of Computer Organization
- 5.3 Components of Computer System Input, Output, Processor and Storage
- 5.4 Microprocessor Concepts, Components of Processor, Functions
- 5.5 Concept of System Buses: Data Bus, Address Bus, Control Bus
- 5.6 Memory Primary and Secondary, Cache(L1, L2), Buffer, RAM, ROM

280 Asmita's Questions Bank (Science) - XI

- 5.7 Storage Device Definition, Use, Types: Hard Disk , Floppy Disk, Magnetic Tape, Flash Memory, Optical Disk(CD,VCD,DVD)
- 5.8 Input Devices Keyboard, Mouse, Scanner, Light Pen, OMR, OCR, BCR, Scanner, Touch Pad Kiosk, Microphone and Digital Camera
- 5.9 Output Devices Monitor, Printer, Plotter, Speaker
- 5.10 Computer Peripherals
- 5.11 Interfaces Parallel Port, Serial Port, USB Ports, IEEE 1394 and Slots
- 5.12 Identification of PC Accessories and Peripherals
- 5.13 Specification of PC
- 5.14 Software and Classification
- 5.14.1 System software: OS, Language processor
- 5.14.2 Application software including Utilities Software
- 5.14.3 Computer Virus and Antivirus

UNIT-6 Operating System

- 6.1.1 Introduction to Operating System
- 6.1.2 Role of Operating System
- 6.1.3 Functions of an Operating System
- 6.1.4 Types of Operating System: Based on Processing Method (Batch, Multitasking, Multiprocessing, Timesharing, Real Time), Based on User Interface (GUI, CUI), Based on Mode of User (Single-user & Multi-user)

6.2 Disk Operating System (DOS)

- 6.2.1 Introduction to CUI and its feature
- 6.2.2 Common DOS Commands (External and Internal Commands)
- 6.2.3 Concept of File and Directory
- 6.2.4 Wildcards and Pathname
- 6.2.5 System Files: Config.sys, IO. sys, MSDOS. sys, autoexec.bat

6.3 Windows Operating System

- 6.3.1 Introduction to GUI and its features
- 6.3.2 Working with a Window Environment
- 6.3.3 Working with a Windows Application Program
- 6.3.4 Working with Files and Folders
- 6.3.5 Customizing the Taskbar and Desktop
- 6.3.6 Customizing Windows
- 6.3.7 Use of Accessories

6.4 Concept of Open Sources Operating System

- 6.4.1 Introduction to Open Sources Operating System
- 6.4.2 Introduction to Linux, UNIX

Programming Concepts & Logics **UNIT-7**

- 7.1 Programming Languages (Low level, High level, 4 GL)
- 7.2 Compiler, Interpreter and Assembler
- 7.3 List of high level Programming Language
- 7.4 Difference between Program and Software
- 7.5 Concept of Programming Statement
- 7.6 Syntax and Semantics errors
- 7.7 Program Control Structures: Sequence, Selection and Iteration.
- 7.8 Program Design tools- Algorithm, Flowchart and Pseudo code
- 7.9 Introduction to Data Type
- 7.10 Codes: Absolute Binary, BCD, ASCII, EBCDIC, Unicode

UNIT-8 Application Package

8.1 Word Processor

- 8.1.1 Concept of Word Processor
- 8.1.2 Types of Word Processing
- 8.1.3 Basic terms of word processing
- 8.1.4 Working and Editing Text
- 8.1.5 Formatting Characters and Paragraphs
- 8.1.6 Formatting Pages
- 8.1.7 Working with Tables
- 8.1.8 Working with Templates and Styles
- 8.1.9 Drawing and Working with Graphics

8.2 Spread Sheet

- 8.2.1 Concept and Use of Spread Sheet
- 8.2.2 Types of Spread Sheet
- 8.2.3 Basic fundamentals of Spread Sheet
- 8.2.4 Formatting a Worksheet
- 8.2.5 Creating and Working with Charts
- 8.2.6 Managing Workbooks
- 8.2.7 General Functions and Formulas
 - 8.2.8 Data Filter and sorting
 - 8.2.9 Working with Other objects

8.2.10 Data Analysis and PivotTables

8.2.12 Project Work on Spread Sheet

8.2.11 What-If Analysis

- 8.1.10 Performing a Mail Merge .
- 8.1.11 Document Collaboration
- 8.1.12 Working with Outlines and Long Documents
- 8.1.13 Working with WordArt and Charts
- 8.1.14 Project Work on Word Processor
- 8.3 Presentation
- 8.3.1 Concept of Presentation
- 8.3.2 Types and use of Presentation Program
- 8.3.3 Basic fundamental of Presentation
- 8.3.4 Editing a Presentation
- 8.3.5 Design and Formatting Presentation
- 8.3.6 Transition of Presentation
- 8.3.7 Animation and Custom Animation
- 8.3.8 Working with Tables, Graphics and WordArt
- 8.3.9 Working with Graphs and Organization Charts
- 8.3.10 Working with Multimedia
- 8.3.11 Project Work on Presentation

UNIT- 9 Internet and E-mail

9.1 Internet

- 9.1.1 Introduction of Internet
- 9.1.2 Uses of Internet:
- 9.1.3 Concept of Protocols
- 9.1.4 Web Browser, Web Page, Website, Web Server, URL, DNS
- 9.1.5 Search Engine, Messenger Services
- 9.1.6 Setting Browser Properties
- 9.1.7 Setup Network Connection

Unit- 10 Web Page Designing

- 10.1 Introduction to HTML
- 10.2 Types of Tags
- 10.3 Basic Structure of HTML
- 10.4 Character Formatting (Paragraphs, Heading, Text format)
- 10.5 Create an Ordered and Unordered List
- 10.6 Insert Images and Objects
- 10.7 Create Hyper Link
- 10.8 Create Table
- 10.9 Design Frames and Form
- 10.10 Concept of CSS and Script Language
- 10.11 Webpage Design and Editing Tools
- 10.12 Project Work on Web Page

UNIT-11 Final Project Work

- 11.1 Project Work on Webpage or Spread Sheet
- 11.2 Documentation of the Project

Practical Evaluation

1	S.No.	Unit	Topics	No of Exercise	Mini Projects Evaluation	Remarks
Y	1	.5	PC Component Identification	2		Practical Marks Evaluated
	2	6.3	Operating System(Windows)	4	-	By:
	3	8.1	Word Processor	6	5	External Examiner: 10
	4	8.2	Spreadsheet	5	5	Internal Examiner: 15
	5	8.3	Presentation	4	5	Based on Mini Project, Lab
	6	9	Internet, Email	4	2	Exercise and Final
	7	10	Web Page Designing (HTML)	6	5	Project
	8	11	Final Project			

Lab exercises are guided by marks distribution and Teaching Manual.

9.2 E-mail

- 9.2.1 Concept of E-mail
- 9.2.2 Uses of E-mail
- 9.2.3 Different types of E-mail Account
- 9.2.4 Web Based E-mail and POP E-mail

rke and Teaching Hours Distribution

- N	Mark Dist	ribution	Number of Hours		
Units	Theory	Practical	Theory	Practical	
1	2	1,	3	0	
* 2	3		5		
3	5		5	i propratika	
4	5		10		
5	10		15	2	
6	10	3	10	20	
7	10		10		
8	15	15	10	22	
9	10	`5	10	16	
10	5	2	5	7	
11					
Total	75.	25	83	67.	

Reference books:

- 1. Gurung, J. B.; Baskota, A; Baral, D.S.; Baral, D.; Niroula, R.; Dhakal, T.P. (2008), A Text Book on Computer Science Part-A Second Edition, Kathmandu: Bhundipuran Prakashan.
- Subba, B.R., Computer Science Grade-XII, Kathmandu: Taleju Prakashan.
- 3. Khanal, R. C. (2007), Computer Practical Volume-I, Kathmandu: Ekata Publication.
- Pudasaini, D.Shakar, Adhikari, N., A Text Book on Computer Science Grade XI, Kathmandu: Buddha Academic Enterprises Pvt. Ltd.
- Basandra, S. K. (2008), Computers Today Updated Edition, Galgotia Publication.
- Leon, Alexis and Leon, Mathews, Fundamental of Information Technology, New Delhi: Vikash Publishing Houses.
- 7. Sinha, P. K. (2003), Computer Fundamentals (CD) 4th Edition, BPP Publication.
- Rajaraman, V. (2007), Fundamental of Computer, Prentice Hall, Fourth Edition.
- URL: http://www.w3.org/html/
- URL: http://en.wikipedia.org/

New Model Questions-2067

F.M.: 75 Time: 3 hrs

[5]

[5]

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** with examples. Attempt ALL the questions. [3×10=30] 1. Draw a well-labeled diagram of typical architecture of a computer system and explain the main function of Control Convert these numbers. Unit and ALU. [4+3+3]a. $(126)_{10} = (?)_2$ a. What is an operating system? Explain any three c. $(57)_8 = (?)_2$ functions of an operating system. Perform following operations The 'WiMP' environment is much more user-friendly, d. 1011 – 1001 e. 1110+1110 why? State the Demorgan's theorem and verify it. OR .

What is cell addressing and explain different types of cell addressing used in spreadsheet.

- b. Write a tag to design your personal web page to link photo family, background and banner page using frame.[5]
- 3. Define flow-chart and pseudo-code. Explain their significance in programming.
 - Write a pseudo-code to accept any three numbers and output the largest among them.

Group B

Short Answer Questions Attempt any NINE questions. [9×5=45]

4. Classify the computers according to their generation based on the technology used. ...

- Differentiate between analogue and digital computer, explain
- What do you mean by number system? Why do digital computers use binary numbers for their operation? [2+3]
 - b. $(11011)_2 = (?)_{10}$
- What are logic gates? Construct the truth table of NOR operation. [5]
- 10. Write short notes on (any two):
 - a. IDE
- b. SCSI
- Wave Camera
- 11. What are uses of internet? Write any five search engine name.
- 12. Differentiate between System Software and Application Software with examples.
- 13. What are DTP features in MS-Word? Write three features of Presentation Packages.
- 14. Write an algorithm and flow chart to print the word "Hello" ten times using "while loop". [5]

Chapter Base

1. Introduction and Evolution of Computer

Long Answer Questions 2072 Set D Q.No. 1 What is generation of computer? Explain the different generations of computer with their major 2071 Supp. Q.No. \$ List out the advantages of transistors over vacuum tubes. 2069 Supp Q.No. 4 Explain any five fields of usage of computer in present days. 2068 Q.No. 4 Describe the usage of computer in five different areas of real time applications. 2067 Q. No. 3 What do you mean by generation of computer? Explain the technology used in different generation of computers. [5 + 7.5]6. 2065 Q. No. 3 What are the application areas of computer? Explain in detail. 2059 Q. No. 1 Explain the evolution of compute describing the technologies used in different generations. 2058 Q. No. 3 Discuss about how the development of the PCs (Personal Computer) has extended the use of computer at present days. [12.5] **Short Answer Questions** 2076 Set C Q.No. 5 Explain fourth generation of computer with 10. 2075 Set A Q.No. 11 2070 Set D Q.No. 10 Differentiate between second and third generation of computer. 11. 2075 Set B Q.No. 9 Define computer. Explain the features of third generation computer. 12. 2074 Supp Q.No. 5 Write characteristics of second generation computer. 13. 2074 Set A Q.No. 5 Explain third generation computer with its characteristics. 14. 2074 Set B Q.No. 6 OR Write the characteristics of first generation of computer. 15. 2072 Set C Q.No. 5 Describe the forth generation of computer.[5] 16. 2072 Set E Q.No. 5 List out the advantages of Al. 17. 2071 Set C Q.No. 11 Differentiate between third and forth generation computer. 18. 2071 Set D Q.No. 9 Describe the features of forth generation [5] computer. 19. 2070 Supp Q.No. 11 What is generation of computer? [1+4]Describe the Third generation computer. 2070 Set C Q.No. 5 Describe the major characteristics of forth generation computer. 21. 2069 Supp Q.No. 5 2068 Q.No. 6 Explain the technologies used in different generations of computer. 22. 2069 Q. No. 5 Why computer is known as versatile and diligent device? Explain. 23. 2067 Q. No. 5 What are the application areas of computer?

Explain in brief.

24. 2066 Q.No. 5 Discuss the generation of computers.

	Computer Science 283
d C	Questions
25. 26.	2065 Q. No. 9 Explain the different generation of computers.[5] 2064 Q.No. 4 State the characteristics of the 4th generation
27.	computers. [5] 2062 Q. No. 4 Write brief notes on the achievement of the
	following computer scientist: (a) Howard Aiken (b) Herman Hollerith [2.5+2.5]
28.	
29.	2060 Q. No. 4 Compare the distinctions between third and fourth generation computers. [5]
	ite short notes on
30.	2075 GIE Q.No. 15a 2073 Set D Q.No. 15a Second generation computer [2.5]
31.	2073 Supp Q.No. 15a 3rd Generation Computer. [2.5]
	2074 Set A Q.No. 6 2071 Supp. Q.No. 11 OR 2070 Set D Q.No. 7 Or
1.	2076 Set B Q.No. 5 2075 Set B Q.No. 6 2074 Supp Q.No. 6
	2069 Q.No. 60R 2065 Q.No. 7 2060 Q.No. 6 Differentiate
200 g	between analog and digital computer. [5]
2.	2076 Set C Q.No. 6 What is digital computer? Write the features of digital computer. [2+3]
3.	2075 GIE Q.No. 5 What are the differences between analog and digital computer? [5]
4.	2075 GIE Q.No. 14 What are advantages and disadvantages of mobile technology? [5]
5.	2075 Set A Q.No. 6 2074 Set B Q.No. 6 What is mobile
6.	computing? Explain. [5] 2075 Set A Q.No. 6OR 2072 Set E Q.No. 10OR 2071 Set C Q.No. 6OR
	2066 Q.No. 6 2064 Q.No. 5 Differentiate between mini and main frame computer. [5]
7.	2073 Supp Q.No. 6 Explain the computer on the basis of
	working principle. [5] 2073 Set C Q.No. 14 What do you mean by mobile computing? [5]
8.	2073 Set D Q.No. 6 2072 Set E Q.No. 10 2071 Supp. Q.No. 11
9.	What is mobile computing? List the advantages of mobile computing. [1+4]
10.	The state of the s
	uses. [1+4]

11. 2072 Set C Q.No. 11 What is mobile computing? Explain why it

12. 2072 Set C Q.No. 11 OR Differentiate between micro computer

13. 2072 Set D Q.No. 5 Differentiate between IBM PC and IBM

14. 2072 Set D Q.No. 11 What is super computer? List out

15. 2072 Set D Q.No. 11 OR What is mobile Technology? Give the

advantages and disadvantages of Mobile Technology. [1+4]

[1+4]

[5]

is becoming more popular these days.

application areas of super computer.

and super computer.

compatible computers.

[2+3]

[5]

(111111)₂ binary number into octal number.

and 2's complement method.

35. 2070 Set C Q.No. 13 Subtract (11111)₂ from (11000)₂ using 1's

[5]

7.

2075 Set B Q.No. 14 Subtract (1100)2 from (1110)2 by using

2074 Supp Q.No. 7 Convert (357)10 to its binary equivalent. [5]

[2.5+2.5]

1's and 2's complement method.

			Computer Science 285
36.	2070 Set D Q.No. 12 Subtract (111) ₂ from (1000) ₂ using 1's and	7.	2073 Supp Q.No. 1 What is logic gate? Describe OR, AND,
	2's complement methods. [2.5+2.5]		NOR logic gates with truth table, gate symbol and Boolean
37.	2069 Supp Q.No. 7 Convert (5634)8 octal number into binary		expression. [2+8]
	number. [5]	8.	2073 Set C Q.No. 1 What is Boolean logic? Describe the AND,
38.	2069 Supp Q.No. 14 Subtract (1010)2 from (1011)2 using 1's	١,,,	OR, XOR logic gates with truth table and logic symbols. [4+6]
	and 2 's complement method. [2.5+2.5]	9.	2073 Set D Q.No. 4 Define Boolean Algebra. Explain AND, OR,
39.	2069 Q. No. 7 Convert (110111101) ₂ binary number into octal		NAND and XOR gate with truth table and logic gate. [2+8]
	number. [5]	10.	2072 Set C Q.No. 1 2071 Set C Q.No. 2 2070 Set C Q.No. 1
40.	2069 Q. No. 14 Subtract (1100)2 from (1111)2 1's and 2's		Describe any five logic gates with Truth Table and gate
	complement method. [2.5+2.5]	a L	symbol. [10]
41.	2068 Q.No. 7 What is hexadecimal number? Convert (ABC) ₁₆	11.	2072 Set E Q.No. 3 What is logic gate? Explain the types of
	hexadecimal number into ()s octal number. [1+4]	40	gates with truth table. [2+8]
42.	2068 Q.No. 15 Perform the following: [2.5+2.5]	12.	2071 Supp. Q.No. 2 Define logic gates. Explain the types of gates with truth table. [2+8]
	a. 11111 – 10001 b. 1111+1111		
43.	2067 Q. No. 7 What is hexadecimal number? Convert (B8C) ₁₆	13.	2071 Set D Q.No. 2 What is logic gate? Describe any four logic
	Hexadecimal number into base 8 number system. [2+3]		gates with Truth Table. [2+8]
44.	2066 Q.No. 7 What is binary number system? Convert	14.	2070 Supp Q.No. 3 Describe any five logic gates with Truth Table. [2+8]
	(BEEF) ₁₆ into binary. [2+3]		그리고 하다 아이들은 남자 다시 그리고 나는 그렇게 되는 것이 되어 하고 그렇게 주었다면 하다.
45.	2065 Q .No. 8 What is Hexadecimal number? Convert (BCA) ₁₆	15.	2070 Set D Q.No. 2 What is logic gate? Describe any four logic
	Hexadecimal number into base 8 number system. [2+3]	201	gates with truth table and gate symbol. [2+8]
46.	2064 Q.No. 6 What is binary number? Convert (BBA) ₁₆ into	16.	2069 Q. No. 4 What is Boolean algebra? Describe AND gate,
	binary. [2+3]		OR gate and NOT gate and NAND gate with gate symbol and truth table. [2+8]
47.	2063 Q. No. 11 What is hexadecimal number system? Convert	Sh	ort Answer Questions
40	637 ₁₀ into hexadecimal system. [5] 2062 Q. No. 9 What is binary number system? Convert	0.00	2076 Set B Q.No. 8 2073 Set C Q.No. 7 Describe the De
48.	(A5B) ₁₆ into decimal number. [5]	1/2	Morgan's Law. [5]
49.	2061 Q. No. 5 What is hexadecimal number system? Convert	18.	2076 Set C Q.No. 8 What is Associative law? Explain OR gate
	11 10 11 ₂ into base 16. [5]		with its truth table and logic symbol. [2+3]
50:	2060 Q. No. 7 What is binary number system? Convert 52010	19.	2075 Set B Q.No. 13 What is truth table? Explain AND gate
	into base 16. [5]		with its truth table and logic symbol. [2+3]
51.	2059 Q. No. 8 What is octal number system? Convert 35610	20.	2074 Supp Q.No. 8 Explain different types of Bus architecture.[5]
9.3	into base 8. [5]	21.	
52.	2058 Q. No. 2 Group B Convert the following numbers	22.	2072 Set D Q.No. 8 Give the truth table and logical symbols of
1.	according to the given instruction [5] a. 240 ₁₀ into Octal-number		AND, OR and NOT gates of boolean algebra. [5]
13, 15	b. ABC ₁₆ in to Binary number	23.	2069 Supp Q.No. 9 Differentiate between NAND and NOR
53.	2057 Q. No. 2 Group B Convert 333 ₁₀ Denary numbers into		gate with truth table. [5]
	Hexadecimal and back to base two number system. [5]	24.	2068 Q.No. 8 What is boolean algebra? Differentiate between
7.		25	NAND and NOR gate with truth table. [1+4] 2067 Q. No. 6 What are the computer gates? Differentiate
4	. Logic Function and Boolean Algebra	25.	
Lo	ng Answer Questions	26	5 W
1.	2076 Set B Q.No. 1 What is Boolean algebra? Describe AND	26.	gate with truth table. [2+3]
*	and NAND gates with logic symbol, truth table and Venn	27	2065 Q. No. 5 What are logic gates? Differentiate between
•	diagram. [4+6]	-7.	"NAND" and "NOR" gate with truth table. [2+3]
2.	2075 GIE Q.No. 1 Describe the AND, OR, NOR gate with truth table, symbols and algebraic expression. [10]	28.	2064 Q.No. 7 Construct the truth table of XOR and XNOR
3.	2075 Set A Q.No. 2 Describe any five logic gates with truth	-53	operations of Boolean algebra. [2.5+2.5]
1	table and gate symbol. [10]	29.	The state of the s
4.	2074 Supp Q.No. 3 Explain NAND, NOR, AND and XNOR		2062 Q. No. 8 Define a NOR gate and draw its logic symbol [5]
	gates with truth table, logic symbol and Venn diagram. [10]	31.	
5.	2074 Set A Q.No. 4 Explain OR, AND, NOR and NOT gate	32.	
	with its truth table, symbol and venn diagram. [10]		algebra. [5]
6.	2074 Set B Q.No. 3 Explain any four logic gates with truth	33.	2059 Q. No. 6 Write truth table for NAND operation of Boolean
	table, symbol and Venn diagram. [2.5+4]		algebra. [5]

28	Sh Kemitata O		10
	- XI		
34	OR operations of Boolean algebra. [5]		22. 2070 Set D Q.No. 3 What is computer architecture a computer organization? Describe the different units
35	2057 Q. No. 5 Group B Define Boolean functions. Construct		computer system. [2
	truth table for AND operation of Boolean algebra. [5]	:	23. 2070 Set D Q.No. 9 What is an application program? List
36	2075 Set A Q.No. 15a De Morgan's law [2.5]	2	24. 2069 Supp Q.No. 2 What is computer system? Explain
	5. Computer Systems		major units of computer system.
Lo	ng Answer Questions	1 2	25. 2069 Q. No. 2 What is memory in the computer system
1.	2076 Set B Q.No. 2 Draw the block diagram of computer		Explain primary and secondary memory. [2
•	system. Explain the input and processing units. [4+6]		26. 2068 Q.No. 3 Define memory. Explain the types of memory details.
2.	2076 Set C Q.No. 1 Explain different types of system bus.	2	details. [2 77. 2067 Q. No. 1] Define computer architecture? Draw a bloom
3.	Differentiate between primary and secondary memory. [5+5] 2075 GIE Q.No. 2 Define the memory structure of computer		diagram of computer system along with logical connection
	system. Explain cache, main and secondary memory with		Explain each block in detail. [5+7
i i i	purpose. [N+6]	2	 2067 Q. No. 11 Define software. Explain the different types software in detail.
٠.,.	2075 Set A Q.No. 1 What is computer system? Explain different	29	
5.	components of computer system with their function 12-81	7.2	and secondary memory. Why hard disk is popular th
	2075 Set B Q.No. 1 What is computer software? Explain different types of software with example. [2+8]		floppy disk? Explain. [2.5+5
	2074 Supp Q.No. 1 What is computer system? Explain	30	Esse di MV. E Explain the fole of meniory in a computer a
	unterent types of memory available in computer system? [2+8]	24	differentiate between main memory and auxiliary storage.
0	20/4 Set A Q.No. 1 What is computer system? Explain main	31	Differentiate between impact and non-impact printers. [12]
	parts of digital computer?	32	2062 Q. No. 2 What are the main types of memory in
99	2074 Set B Q.No. 2 What is computer architecture? Explain		computer, and explain how do they differ from one another?[12]
	different types of memory available in computer. [2+8] 2073 Supp Q.No. 4 Describe a computer system with logical	33.	. 2061 Q. No. 2 Discuss the term computer architecture. Dra
1	diagram. [10]		block diagram and explain the main components of
0.	2073 Set C Q.No. 3 Define computer Architecture with block	34.	computer system. [12 2061 Q. No. 3] What do you mean by the term 'Virtu
	diagram. Describe the function of memory and processing		memory'? How does it differ from 'main memory' ai
	unit of computer system. [4+6]	•	secondary memory"? Discuss.
1	2073 Set D Q.No. 2 What is memory? Explain different types of memory present in the computer system with their uses.[2+8]	35.	2060 Q. No. 1 Show with reference to a block diagram the
2. [2072 Set C Q.No. 3 Define the terms 'computer architecture'		structure of a digital computer system and the inte
6	and 'computer organization'. Explain the different units of		connection of various units. Explain the functions of various units briefly.
(computer system with suitable block diagram. [2+8]	36.	2059 Q. No. 2 With a logical structural diagram expla
. 1	2072 Set D Q.No. 2 What is memory? Describe the different		runctions of elements of a computer system.
. [2	ypes of memory present in the computer system. [2+8] 2072 Set E Q.No. 2 Explain the computer system with block	Sho	ort Answer Questions
d	iagram. [10]	37.	2076 Set B Q.No. 7 What is ROM? List out the different type
2	072 Set E Q.No. 4 What is language processor? Differentiate		12+
· D	etween compiler and interpreter with examples 12-81	30.	2076 Set B Q.No. 9 What is secondary memory? Explain about hard disk.
2	071 Supp. Q.No. 1 What is computer system? Explain the	39.	
50	omputer system with block diagram. [2+8]		2076 Set C Q.No. 9 What is printer? Differentiate betwee impact and non-impact printer.
di	771 Set C Q.No. 1 What is computer architecture? Describe ferent units of computer system. [2+8]	40.	
20	71 Set C Q.No. 3 Describe different types of language		System.
pro	ocessors with examples.	41.	2075 GIE Q.No. 8 What is output unit? Describe the different
20	71 Set D Q.No. 4 What is memory? Describe the types of		types of printers.
me	mory. [2+8]	42.	2075 GIE Q.No. 9 What are the functions of ALU and CU? [5
207	O Supp Q.No. 1 What is CPU? Explain the major units of	43.	2075 Set A Q.No. 5 What is memory? Write the importance of
CP	U. [2+8]		secondary memory? [1+4
20/	tom with legislation	45.	2075 Set A Q.No. 12 What is language translator? Explain. [5
,,3	[10] [10]	√ ∪.	2075 Set B Q.No. 8 What is CPU? Explain the components of CPU.
	2		[2+3]

			Company
16.	2074 Supp Q.No. 12 OR Write the characteristics of impact printer. [5]		2070 Set D Q.No. 6 What is memory? Differentiate between SRAM and DRM. [1+4]
17.	2074 Set A Q.No. 9 What is cache memory? Explain the	75.	2070 Set D Q.No. 13 Describe the Non-Impact printers with
	advantages of cache memory. [2+3]		examples. [5]
8.	2074 Set B Q.No. 5 Write the functions of CPU. [5]	76.	2069 Supp Q.No. 12 Describe the terms "Hardware",
9.	2074 Set B Q.No. 14 2069 Q. No. 9 Differentiate between	٠.	"Software" and "Firmware". [5]
	impact and non-impact printer, with an example. [5]	77.	2069 Supp Q.No. 8 What is laser printer? List the features of
0.	2073 Supp Q.No. 5 2067 Q. No. 12 Differentiate between RAM		laser printer.
	and ROM. [5]		2069 Q. No. 8 What is BUS in terms of computer architecture?
1.	2073 Supp Q.No. 8 2070 Supp Q.No. 10 2067 Q.No. 9 2065 Q.No. 12	1	Explain. [5]
	2062 Q. No. 5 Differentiate between impact and non-impact		2069 Q. No. 12 What is CPU? Write down the functions of CPU. [5]
	printer. [5]		01 0.
	2073 Supp Q.No. 13 What is cache memory ? How it helps to		2068 Q.No. 10 Define the term "BUS". Explain different types of BUS. [2+3]
	improve the performance of computer? [1+4]		or boo.
	2073 Set C Q.No. 5 How do you measure the capacity of	81.	2068 Q.No. 12 What is an output device? Differentiate
	speed and memory of computer system? Explain. [5]	00	between Impact and Non-Impact printers with examples. [1+4] 2067 Q. No. 10 What is output? Distinguish between CRT
4.	2073 Set C Q.No. 8 Describe the secondary memory in	02.	monitor and LCD monitor. [1+4]
	computer system with example. [5]	00	2066 Q.No. 4 What is printer? Differentiate between soft copy
5.	2073 Set D Q.No. 5 Explain impact and non-impact printers. [5]	83.	and hard copy output. [5]
6.	2073 Set D Q.No. 8 Describe computer virus and method of	84.	2066 Q.No. 12 What is bus in computer architecture? Explain. [5]
	protection from virus. [5]		2065 Q. No. 6 What is memory? Explain the main memory
	2072 Set C Q.No. 7 What is memory? List out any four	85.	and secondary memory. [1+4]
	differences between primary and secondary memory. [5]	86.	and secondary momenty.
8.	2072 Set D Q.No. 7 What is 'BUS' in the computer system?	87.	Differentiate between
	Describe the different types of BUS. [1+4]	07.	hardcopy and softcopy output. [1+4]
9.	2072 Set D Q.No. 12 Differentiate between Compiler and	88.	2063 Q. No. 5 2059 Q. No. 7 Differentiate between the terms
	Interpreter with example. [5]		hardware, software and firmware. [5]
60.	2072 Set E Q.No. 8 What is output? List out the major features	89.	Differentiate between computer and interpreter [5]
	of Non-Impact printers. [1+4]	90.	Touleigh height the functions of input unit and
31.	2072 Set E Q.No. 9 What is memory? Differentiate between PAM and ROM [1+4]		control unit of a computer. [5]
	TVAINI AND TVOIN.	91.	2062 Q. No. 12 Explain work done by the control unit and ALU
52.	2071 Supp. Q.No. 8 Define printer. Differentiate between Impact and Non-Impact printer with examples. [1+4]		of a computer. [5]
e ^X eri Julio	illibaci alla Noll-Illibaci pintoi vitti externe	92.	2061 Q. No. 7 Describe the differences between serial and
53.	2071 Supp. Q.No. 9 Define memory. Differentiate between [1+4]		parallel interfaces. [5]
	DIVAINI and STAIN.	93.	2060 Q. No. 5 Explain the terms hardware interrupts and
64.	2071 Set C Q.No. 5 2066 Q.No. 11 What is memory? Differentiate between Primary and Secondary memory. [1+4]		software interrupts. [5]
	Differentiate between Filliary and Secondary memory. [1.1]		2060 Q. No. 12 Describe the terms spooling and buffering. [5]
65.	2071 Set C Q.No. 12 Describe the Impact Printers with examples [5]		2059 Q. No. 4 What is a 'bus' in computer architecture? [5]
	Cxampics.	96.	2059 Q. No. 9 What do you mean by "Volatility"? Explain RAM
66.	2071 Set D Q.No. 11 Decombe dimension 17	ø	and ROM with the concept and term. [5]
67.	2071 Set D Q.No. 8 List out the functions of CPU. [5]	97.	2059 Q. No. 10 What is a purpose of a MODEM and where it
68.	2071 Set D Q.No. 10 Describe Non-Impact Printers with		could be used? [5]
	example. [5]	98.	2058 Q. No. 3 Group B Define the term computer peripheral.
69.	2071 Set D Q.No. 12 2070 Supp Q.No. 12 Differentiate between		Discuss about different types of printers with their merits and demerits. [5]
	Compiler and Interpreter. [5]		
70.	2070 Supp Q.No. 7 Define memory. Differentiate between	99.	2058 Q. No. 7 Group B Write the importance of primary and secondary storage in a computer system. [5]
	primary and secondary memory. [1+4]		b. 2057 Q. No. 3 Group B What do you understand by storage
71.	2070 Supp Q.No. 8 Describe different types of software. [5]	10	media? Why CDROM are more reliable than the floppy
72.	2070 Set C Q.No. 8 Differentiate between primary and		diskettes? [5]
	secondary memory with examples. [5]	W	rite short notes on
73.	2070 Set C Q.No. 9 What is laser printer? List out the major		1. 2074 Set A Q.No. 15a Computer virus [2.5]
13	features of laser printer. [1+4]		2.2074 Set A Q.No. 15b Bus architecture [2.5
	A STATE OF THE PARTY OF THE PAR		

			0,
288	Asmita's Questions Bank (Science) - XI		
103	2074 Set B Q.No. 15a Mouse [2.5]	12.	2071 Supp. Q.No. 3 What is operating system? Explain the
	.2073 Supp Q.No. 15b Monitor [2.5]		
			types of operating systems based on processes. [2+8] 2071 Set C Q.No. 4 What is on Operating System? Describe
	.2073 Set C Q.No. 15b USB [2.5] .2073 Set D Q.No. 15b 2072 Set C Q.No. 15a 2067 Q. No. 13b		GUI and CUI based operating systems with merits and
	Cache memory. [2.5]		demerits.
107	2072 Set C Q.No. 15b Bus in the Computer System [2.5]		
108	2072 Set D Q.No. 15a 2070 Supp Q.No. 15a 2065 Q. No. 13a		the types of operating system. [2+8]
	Scanner [2.5]		2070 Set C Q.No. 3 What is operating system? Describe GUI
109	2072 Set D Q.No. 15b 2065 Q. No. 13b Light pen. [2.5]		and CUI operating systems in details. [2+8]
	2072 Set E Q.No. 15a Touch screen [2.5]	16.	NAME AND ADDRESS OF THE PARTY O
	2072 Set E Q.No. 15b 2071 Set C Q.No. 15a 2070 Set C Q.No. 15b		types of operating system. [2+8]
	2068 Q.No. 14b 2064 Q.No. 13b MICR [2.5]		140 4
112.	2071 Supp. Q.No. 14a System software [2.5]		types of operating system on the basis of process. [2+8]
	2071 Supp. Q.No. 14b 2071 Set D Q.No. 15a OCR [2.5]	40	2068 Q.No. 2 What is an operating system? Explain the
114.	2070 Supp Q.No. 15b 2066 Q.No. 13a Joystick [2.5]		functions of operating system in brief. [2+8]
	2070 5-4 2 6 11 1-12 2	19.	
*	0000	1.	different types of operating system with suitable examples.
117	2000 0 11 121 2000		[5+7.5]
118.		20.	
	[2.0]	21	functions. [5 +7.5] 2064 Q.No. 1 Explain the importance of an operating system.
120.	2067 Q. No. 13c Compiler versus Interpreter. [2.5] 2065 Q. No. 13c 2064 Q.No. 13c Laser printer [2.5]	41.	Differentiate between GUI (Graphical User Interface) and
121.	2064 Q.No. 13a Charles Babbage [2.5]	100	CUI (Character User Interface) operating system with
122.	2060 Q. No. 9 Touch pads and light pens [5]	· .]p	examples, [6+6.5]
N	Operating System	22.	2064 Q.No. 3 What do you mean by system software and
	g Answer Questions		application software? Explain any five areas of computer
	2076 Set B Q.No. 3 What is operating System (OS)? Describe		applications. [5 +7.5]
	its functions in brief. [2+8]	23.	2063 Q. No. ☐ What is an operating system (OS)? Explain why GUI OS is more popular than text based OS. [12.5]
2.	2076 Set C Q.No. 2 Write importance of operating system.	24.	why GOI OS is more popular than text based OS. [12.5] 2062 Q. No. 1 Define an operating system. What is its
25	Explain the types of operating system based on processing	77	purpose? List the functions. [12.5]
	method. [2+8]	25.	2060 Q. No. 3 What is an operating system? Why is GUI
	2075 GIE Q.No. 3 What are the functions of operating system?		operating system move popular than text based operating
	List out different category of operating system. [6+4]		system? Justify clearly. [12.5]
4.	2075 Set A Q.No. 4 2075 Set B Q.No. 2 2074 Supp Q.No. 2 2072	26.	2057 Q. No. 2 "An operating system is an interface between
	Set D Q.No. 3 What is operating system? Explain any four		numan operates and an application software", Justify this
	functions of operating system. [2+8] 2074 Set A Q.No. 2 Explain any five functions of operating	বা	statement with examples of operating systems known to you [12.5]
	system?		ort Answer Questions
	2074 Set B Q.No. 1 What is operating system? Write its		2076 Set B Q.No. 10 Differentiate between CLI and GUI operating system.
37 40 /0 S	importance. Describe CUI and GUI based operating system	28	- 101
	with merits and demerits. [2+2+6]		2076 Set C Q.No. 10 2074 Supp Q.No. 9 Differentiate between CUI and GUI based operating system. [5]
7.	2073 Supp Q.No. 2 2070 Supp Q.No. 4 2069 Q. No. 1 2065 Q. No.	29.	2075 Set B Q.No. 9 Differentiate between single-user and
	1 What is operating system? Explain the function of		
	operating system. [2+8]	30.	
8.	2073 Set C Q.No. 2 Define operating system. Explain the		-volain -
le d	major function of operating system with example of window	31.	2074 Set B Q.No. 13 Define multi processing and multi tasking
	pased operating system. [4+6]		operating system. [5]
9.	2073 Set D Q.No. 1 What is operating system? Write its role.	32.	2073 Set C Q.No. 9 List out the name of operating system.
	Explain any three functions of OS. [2+2+6]		What are the main feature of GUI based operating system? [2+3]
.0.	2072 Set C Q.No. 2 What are the primary objectives of	33.	2073 Set D Q.No. 9 Differentiate between GUI and CUI. [2+3]
	operating system? Describe any four functions of operating system. [2+8]		2072 Set C Q.No. 12 OR Describe the terms 'Operator'.
	(ZTO)		

[2+8]

[2+8]

four types of operating system.

11. 2072 Set E Q.No. 1 What is operating system? Explain any

35. 2071 Set C Q.No. 14 What is booting? Describe the types of

[1+4]

'Operand' and 'Operation' with suitable examples.

computer booting.

Computer Science 36. 2070 Set C Q.No. 14 Describe the types of computer booting.[5] 2072 Set D Q.No. 4 What is programming? Explain the 37. 2070 Set D Q.No. 14 What is computer booting? Describe the different types of programming languages with their merits types of computer booting. and demerits. 38. 2065 Q. No. 11 What is software? Why graphical user 14. 2071 Supp. Q.No. 10 Explain the types of errors in interface (GUI) operating system is more popular than programming language. character user interface (CUI) operating system? Justify.[2+3] 15. 2071 Supp. Q.No. 13 Define flowchart. Describe the symbols 39. 2061 Q. No. 11 What is an operating system? Explain its used in flowchart. major functions. 16. 2071 Supp. Q.No. 4 What is programming? Differentiate 40. 2061 Q. No. 13 What do you mean by data sequencing? between Compiler and Interpreter with examples. Differentiate between random access and sequential access.[5] 17. 2071 Set D Q.No. 3 Describe different types of programming 41. 2059 Q. No. 5 Distinguish between batch processing of ondesign tools with examples. , 110 Xslace and [10] line processing 18. 2070 Supp Q.No. 2 What are the program design tools? 42. 2058 Q. No. 4 Discuss about the advantage of GUI operating Describe different types of program design tools with merits system (MS- Windows) over Text based operating system and demerits. 19. 2070 Set C Q.No. 4 What is programming? Describe the types 43. 2057 Q. No. 6 Distinguish between on-line and real time of programming languages with appropriate examples. [2+8] processing. What application would you suggest appropriate 20. 2069 Supp Q.No. 3 What is programming language? Explain of real time processing? different types of programming languages. Write short notes on 2069 Q. No. 12 What is programming? Differentiate between 44. 2071 Set D Q.No. 15b Computer booting compiler and interpreter. [2+8]7. Programming Concepts & Logics 22. 2068 Q.No. 1 What is programming language? Explain the types of programming languages with merits and demerits. Long Answer Questions 1. 2076 Set B Q.No. 4 What is programming language? Describe [2+8]23. 2066 Q.No. 1] What are the programming languages? Explain the various types of programming language with their merits each of them in detail. and demerits. [2+8]24. 2066 Q.No. 3 Draw block diagram and explain the main 2076 Set C Q.No. 3 What is program? Explain first, second, components of a computer system. third and fourth generation programming languages with their 25. 2065 Q. No. 2 Explain the components of computer system merits and demerits. [2+8] with block diagram. 2075 GIE Q.No. 4 What are the differences between syntax [12.5] 26. 2061 Q. No. 1 What is program documentation? Why and semantics? Describe the different types of programming documentation is important for the successful language with features. [3+7]implementation of a system? [12.5] 2075 Set A Q.No. 3 2070 Set D Q.No. 1 Explain different types 27. 2060 Q. No. 2 What are the different phases of the software of programming language with their merits and demerits. [10] development? Explain each of the phases in detail. 2075 Set B Q.No. 3 What is programming language? Explain 28. 2059 Q. No. 3 Explain roles of system analysts and complier, interpreter and assembler. programmes with a distinction between system 2074 Supp Q.No. 4 Explain different types of programming documentation and program documentation. [12.5] language. 2058 Q. No. 1 Why should user be involved through the system development life cycle? Can you think of some 2074 Set A Q.No. 3 What is programming language? Explain specific examples of what might happen, if the users are not algorithm and flowchart with example. [2+8] 2074 Set B Q.No. 4 What is programming language? Explain involved? 30. 2058 Q. No. 2 Who is system analyst? List and explain the different types of language translator. [1+9] characteristics of a good system analyst. 2073 Supp Q.No. 3 What is programming language? Explain 31. 2057 Q. No. 1 Explain with examples why a program compiler, interpreter and assembler. Also differentiate development requires systematic methods. What are the between compiler and interpreter. [2+6+2] initial steps of program design? 10. 2073 Set C Q.No. 4 What are difference generation of [12.5] 32. 2057 Q. No. 3 Explain the roles of systems Analyst programming language? Draw a flow chart for sequence programmer in the process of systems design and control and looping concept with suitable example. 12+81

implementation.

[2+8]

[2+8]

Short Answer Questions

its example of each.

33. 2076 Set B Q.No. 11 Explain the compiler and interpreter.

34. 2075 GIE Q.No. 10 What is flow chart? Explain with example.[5]

35. 2075 Set A Q.No. 9 What is an algorithm and flowchart? Write

[12.5]

[5]

11. 2073 Set D Q.No. 3 What is programming language? Explain

12. 2072 Set C Q.No. 4 What is programming language? Explain

and demerits.

features.

different types of programming language with their merits

the different programming languages with their major

2074 Set A Q.No. 11 2073 Supp Q.No. 12 Explain different types	61. 2058 Q. No. 6 Group B What is flowchart? Write
or entries in program.	advantages of drawing flowcharts
2074 Set B Q.No. 12 Explain third generation programming	62. 2058 Q. No. 8 Group B Logical errors are difficult to find the syntax errors. Justify.
2073 Set C Q.No. 10 Describe the feature of high level	63. 2057 Q. No. 4 Group B What do you understand by 4GL?
programming language. [5]	examples.
2073 Set D Q.No. 10 What is language translator? Differentiate	64. 2057 Q. No. 7 Group B What is a Binary tee? Explain algor of Binary search?
between compiler and interpreter. [1+4]	
2072 Set C Q.No. 8 What is program testing and debugging? Explain why logical errors are difficult to detect and correct than system errors.	65. 2057 Q. No. 8 Group B Draw a diagram showing semantic case statement and syntax in structure English.
than syntax errors.	Write short notes on
2072 Set E Q.No. 13 What is flowchart? Describe the symbols	CC TOTALO ON ATT Decido Codo
used in Howchart.	
2072 Set E Q.No. 11 Explain the types of errors in	67. 2070 Set C Q.No. 15a Flowchart
programming language. [5] 2071 Set C Q.No. 9 2070 Set D Q.No. 8 Describe algorithms and	8. Application Package
flow chart with examples. [2 5+2.5]	Short Answer Questions
2070 Set C. O. No. 47 Differentiate had	1. 2076 Set B Q.No. 14 What are the features of spreadshe
2070 Set C Q.No. 12 Differentiate between logical error and	Explain.
syntax error with examples. [5]	2. 2076 Set C Q.No. 11 What is word processor? Exp
2069 Supp Q.No. 13 What are programming errors? Explain.[5]	document formatting features in word processor.
Explain the types of programming errors with	3. 2076 Set C Q.No. 12 What is spread sheet software? De
examples.	the terms cell and cell address in spread sheet.
2067 Q. No. 8 What is programming? Differentiate between	4. 2075 GIE Q.No. 13 What are major features in spread sh
nowchart and alogorithms. [1+4]	application package?
2066 Q.No. 8 Differentiate between algorithm and flowchart	5. 2075 Set A Q.No. 8 List any five features of spread-sheet.
with suitable examples. [2.5+2.5]	6. 2075 Set A Q.No. 14 What is document formatting in
2065 Q. No. 4 What is programming? Differentiate between	word? Explain.
Tiowchart and algorithms with suitable examples. [5]	
2064 Q.No. 10 What is an algorithm? Explain the advantages	moon by necessary to wind is word processor? What do
of an algorithm. [2+3]	
2063 Q. No. 7 Define flow chart and algorithm with examples.[5]	enroadehoot
2062 Q. No. 6 What are the characteristics necessary for	14
programming to be considered as a high level language? [5]	animation what is presentation software? Expl
2062 Q. No. 7 What is an algorithm? Write an algorithm to	13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
compute a sales person's commission based on a sales	10. 2074 Supp Q.No. 10 What is mail merge? Write advantages mail merge. [2
volume shown below: [5]	11. 2074 Set A Q.No. 12 What is word-processing? Expla
Sales Account a. Under Rs. 500/-	document formatting.
The specific of the second sec	12. 2074 Set B Q.No. 8 What is Ms-Word? Write the advantage
b. Rs. 500 or more but under Rs. 5000 5% c. Rs. 5000 and above 10%	of using Ms-Word.
2061 Q. No. 9 What is flowchart? Differentiate between	13. 2074 Set B Q.No. 9 What is spread sheet? Define cell and c
	address. [2-
program flowchart and system flowchart. [5] 2061 Q. No. 10 What is program debugging? Differentiate	14. 2073 Supp Q.No. 9 What is word processor? What do y
20. 'PC' - 150 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mean by document formatting? Explain. [14
between 'syntax error' and 'logical error'. [5] 2060 Q. No. 10 What is program logic? What are symbols	
the distriction of the state of	That is spread sheet? Write the uses
2060 Q. No. 13 What are the two types of programming	100 C.
	villat are the leatures of word processing
	software? List out word processing software. [4+
	17. 2073 Set D Q.No. 11 What is word processor? What is page
Operand" with examples. [5]	formatting? Explain. [1+
2059 Q. No. 12 Draw a flowchart to test condition, if-then-else	18. 2073 Set D Q.No. 12 Define the terms worksheet, workboo
program design process. [5]	sorting and formula in spread sheet.
059 Q. No. 13 Explain the difference between syntax and	19. 2072 Set C Q.No. 9 OR What is word processor? Give the
emantics. [5]	major features of word processor. [1+

			Computer Science 291
20.	2072 Set C Q.No. 10 What is spreadsheet application	6.	2074 Set A Q.No. 13 OR Explain different types of e-mail. [5]
1 2	program? List the uses of spreadsheet. [1+4]	7.	2073 Supp Q.No. 9 OR What is the Internet? Write the
21.	2072 Set D Q.No. 10 What is spreadsheet application		advantages of the Internet. [1+4]
	program? Describe the terms cell, cell reference, worksheet	8.	2073 Set C Q.No. 11 What is URL? Describe the search
1	and work book. [1+4]	-	engine. [5]
22.	2072 Set E Q.No. 7 OR What is application program? List out	9.	2073 Set D Q.No. 11 OR Describe different types of e-mail
	the uses of spreadsheet application program. [1+4]		Account. [5]
23.	2071 Supp. Q.No. 7 OR What is spread sheet? State the	10.	2072 Set C Q.No. 9 OR 2070 Set C Q.No. 10 List the advantages
	advantages of spread sheet. [2+3]		and disadvantages of Internet. [1+4]
24.	2071 Set C Q.No. 8 What is an application program? List the	11.	2072 Set D Q.No. 9 What is mail merge? Describe its major
	major features of spread-sheet. [1+4]		uses. [1+4]
25.	2071 Set D Q.No. 11 Or Describe the features of Word-	12.	2072 Set D Q.No. 9 OR List the positive and negative impacts
	processor. [5]		of Internet in our society. [1+4]
26.	2070 Supp Q.No. 9 Or What is word processor? List out the	13.	
	major features of word processor. [5]		internet in our society. [1+4]
27.	2070 Set C Q.No. 10 Or Describe the major features of spread	14.	2071 Supp. Q.No. 7 What is Internet? Explain the impacts of
	sheet. [5]		Internet in our society. [1+4]
28.	2069 Supp Q.No. 10 Or Explain the features of spread sheet	15.	2071 Set D Q.No. 11 What is Internet? List the major uses of
	package. [5]		Internet. [1+4]
29.	2069 Q. No. 100R Explain the features of word processor. [5]	16.	2070 Supp Q.No. 9 What is search engine? List out the major
30.	2068 Q.No. 9 OR What is word processor? State the	1.)	uses of internet. [1+4]
	advantages of word processor in document designing. [1+4]	17.	2069 Supp Q.No. 10 List the positive and negative impacts of
31.	2064 Q.No. 11 What is a spreadsheet package? State the		internet in our daily life. [5]
	advantages of spreadsheet package. [2+3]	18.	2069 Q. No. 10 What is internet? Write down the uses of
32.	2063 Q. No. 6 What do you mean by word processing?	-35	internet. [1+4]
	Distinguish between word processing and data processing	19.	2068 Q.No. 9 What is internet? List out the positive and
	software. [5]		negative impacts of internet in our society. [1+4]
33.	2063 Q. No. 13 Explain briefly the followings:		rite short notes on
	a. Document formatting in word processing package [2.5]		2076 Set B Q.No. 15a URL [2.5]
	b. Cell referencing in spread sheet package. [2.5]		. 2076 Set C Q.No. 15b www [2.5]
34.	2062 Q. No. 13 Explain the following terms used in different software packages: [2.5+2.5]	22	2075 GIE Q.No. 15b 2074 Supp Q.No. 15b 2074 Set B Q.No. 15b
			2073 Set C Q.No. 15a E-mail (2.5)
	a. Cut and pasteb. Text justification	23	. 2075 Set A Q.No. 15b Internet [2.5]
35	2058 Q. No. 9 What do you understand by formatting a	24	2075 Set B Q.No. 15b Search engine. [2.5]
	document? Give the significance of speller and thesaurus of	25	2071 Set C Q.No. 15b / 2070 Set D Q.No. 15b Uses of Internet[2.5]
	modern word processing package. [5]		
W_{Γ}	ite short notes on	1	10. Web Page Designing
36.	2076 Set C Q.No. 15a Slide transition [2.5]	Sh	ort Answer Questions
37.	2075 Set B Q.No. 15a Presentation software [2.5]	1.	2076 Set B Q.No. 13 Explain the tag and tag with
38.	[2.5]		its properties and values. [2.5+2.5]
		2.	2076 Set C Q.No. 13 What is HTML? Explain < Img > tag. [2+3]
g	. Internet and E-mail	3.	2076 Set C Q.No. 13 OR 2075 GIE Q.No. 12OR Write the
	ng Answer Questions		advantages of DBMS. [5]
1.	The second and second and	4.	Fig. 1. Compared to the second state of the se
••	disadvantages of e-mail. Explain different types of e-mail		properties and values. [5]
	account. [2+3+5]	5.	2075 Set A Q.No. 10 What is HTML? Describe different types
2.	2075 Set B Q.No. 4 What is Internet? Explain the uses of		of tag used in HTML. [2+3]
	internet. [2+8]	6.	2075 Set A C.No. 10 OR What is DBMS? Write its advantages. [1+
Sh	ort Answer Questions	7.	The state of the s
3.	2076 Set B Q.No. 12 Define social media. Describe negative	* 19	the basic structure of HTML. [2+3]
	impact of social media. [2.5+2.5]	8.	Torre O Va Con Corre C No. 11 OP Write the
4.	161		advantages of DBMS. [5]
	use of internet in college? [5]		
5.	2074 Supp Q.No. 11 Write the uses of Internet. [5]		

5 Sets Questions

[1+4]

[1+8+1]

RDBMS.

of RDBMS.

Set 1

24. 2069 Q. No. 11 What is web page? List the features of web

in web page designing.

Group A

Long Answer Questions Attempt all the questions. [3×10=30] What do you mean by generation of computer? Explain the characteristics of different generations of Computer. [1+9]2. Classify memory used in a computer system. Explain different primary memories in detail. [2+8]3. Why is an Operating System an essential part of computer system? Explain deadlock prevention and interrupt handling functions of Operating System. What do you understand by multiprocessing and multiprogramming. [2+3+5]Define programming language. Explain different types of

programming languages with their merits and demerits. List

out the characteristics of a good program.

	Group B
Sh	Group B ort Answer Questions
Att	emnt any nino quastions
5	Explain the application areas of
6	Explain the application areas of computer in brief. [5]
٠.	What is a microcomputer? Explain the benefits and
	initiations of microcomputer over super computers 11+4
100	i. Define Hexa-decimal numbers system. [1
	ii. Convert a hexa-decimal number FA3.0C into decima number system.
	iii. Convert a octal number 560.34 into hexadecima number system.
	iv. Subtract 10010 from 11001 using 2's Complemen method.
8.	Define Boolean Algebra? Explain about OR, NOR and XOR
	gates. [1+4
9.	What is a softcopy and hardcopy output? Differentiate between impact and non-impact printer. [1+4]
10.	Explain bus architecture with different types of bus. [5]

11. What do you mean by language translator? Differentiate

between Compiler and Interpreter.

14. 2068 Q.No. 13 OR What is RDBMS? Explain the advantages

[1+4]

[1+4]

[1+4]

12. Describe the significance of spreadsheet package in day-to-	
day office activity. Discuss cell referencing with different	Set 3
types of cell referencing methods. [2+3]	Group A
13. Explain email with its advantages in our modern society.	Long Answer Questions
Define the terms DNS and URL. [3+2]	Attempt all the questions. [3×10=30]
14. What is HTML? Write the basic structure of HTML. Define tag with different types of tags. [1+2+2]	1. Write down the historical development of computer in brief.
45 Mista short nates on: (any two)	Explain the characteristics of computer in detail. [4+6]
a. OCR	2. Classify memory used in a computer system. Explain (2+8)
h Positive impact of Internet	different memories in detail. [2+8] 3. What is an operating system? Explain different types of
c. Open Source software	operating system in detail [2+8]
	4. i. What is programming? Differentiate between flowchart
Set 2	and algorithm with suitable examples. [1+4]
	ii. Define error. Explain different types of errors in detail.[1+4]
	Group B
	Short Answer Questions Attempt any nine questions [9×5=45]
	recompt any mile questions.
1. Define Computer, Explain the application areas of computer	5. What is AI? List out the features of fifth generation computers. [1+4]
10 01	6. What is mobile computing? Explain its features and
What do you mean by computer architecture? Describe each	importance in communication. [1+4]
functional components of computer architecture with typical	7. i. Convert a octal number 345 into decimal number
diagram. [1+9]	system. [1]
3. What is an Operating System? Explain the functions of	ii. Subtract 10110 from 1011 using 2's Complement
operating system in detail. Write down the advantages of	method. [2]
GUI based system compared to CUI based system [2+6+2]	iii. Subtract 8734 - 5490 using 9's Complement method. [2]8. What is Logic gate? Differentiate between NAND and NOR
4. What is a language translator? Why is it required? Explain different language translators in detail. [2+2+6]	8. What is Logic gate? Differentiate between NAND and NOR gate. [1+4]
Group B	9. What is a printer? What are the two different types of
Short Answer Questions	printers? Differentiate between them with example. [1+1+3]
Attempt any nine questions. [9×5=45]	10. Explain the different communication ports used in the
5. Compare and contrast analog and digital computers. [5]	computer. [5]
	11. What do you mean by 4GL? Differentiate between Compiler and Interpreter. [1+4]
ii. Subtract 5608 - 7854 using 10's Complement method. [2]iii. Subtract 1100 from 1101 using 1's Complement method. [2]	
= William Function 2 Function VOP and YNOR logic	office activity. Discuss the functions of word processors. [2+3]
operations with truth table. Why is NAND gate known as	13. Explain email with its use, types and advantages of email in
universal date? [1+3+1]	our modern society. [5]
8 Define output, differentiate between CRT and LCD monitor.[1+4]	14. Explain the different types of HTML tags with example. Write
9. What are the main types of memory in a computer and	the HTML tags to generate following output: [2+3]
explain how do they differ from one another?	T of Committee on the basis of speed/size
10. Explain system, application and utility software with example.[5]	Types of Computer on the basis of speed/size 1. Super Computer
11. What is Internet? List out the positive and negative impacts of Internet in our society.	2. Micro Computer
of Internet in our society. 12. Define program and error. Differentiate between syntax and	Portable Micro Computer
logical error. [1+4]	a. Laptop
13. What is HTML? What is it's use? Write the functions of	b. Notebook PC
<tr> <a> <link/> tags used in HTML. [1+2+2]</tr>	 Non-Portable Micro Computer
14. Explain spreadsheet package with its features and example [5]	a. Desktop PC
15. Write short notes on: (any two) [2.5+2.5]	b. Workstation Computer
a. Mobile Computing	3. Mainframe
b. MICR c. HTTP	4. Mini Computer 15. Write short notes on: (any two) [2.5+2.5]
V IIIIF	a. Light pen
[13] 어린 아무리 아름다고 살아 살아보는 어떤 물리 없다.	b. Business use of Internet
하고 그 그 살은 그림을 하고 있는 그들은 그렇게 하는 그는 그를 가는 하는 사람들이 다른 생각을 하는 것	A - liastics as thurse

c. Application software

Abacus

Virtual memory

Set 4

Group A

	Group A
	Long Answer Questions
	Attempt all the questions. [3×10=30]
computer and explain each block in detail. [1+9]	What are the different storage devices used in a computer System 2 Explain them in detail.
2. Define an operating system. What is its function? Differentiate	2. i. What do you mean by virtual memory? How does it differ
3. What are the different Program designing tools? Explain them in detail with examples.	from primary and secondary memory? [2+3] ii. Explain the terms hardware interrupt and software interrupt.
4. a. What do you mean by document formatting in word	3. Explain the different program control structures. Define the
processing somware? What is the use of Thesaurus and	terms testing and debugging. [8+2]
speller?	4. What is a printer? Explain different printers with their merits
b. Explain Presentation package with its use, features and	and demerits. [2+8]
example. [5]	Group B
Group B	Short Answer Questions
	Attempt any nine questions. [9×5=45]
Attempt any nine questions. [9×5=45]	5. Define IC. Write the features of fourth generation of
5. What do you mean by generation of computers? Compare	computers.
the characteristics of third and fourth generation of	6. Explain the main characteristics of super computers. Explain
computers.	their applications in real life situations. [1+4]
speed/size.	7. Why is binary number system important in digital computers?
7. What is octal number system? Convert decimal number	8. Explain universal gates with their truth table, graphical
	symbol and venn-diagram. [5]
	9. Differentiate between RAM and ROM. [5].
9. Explain cache memory. How is DVD different from CD? [3+2]	10. What is the role of input and output devices in a computer system? Name some of the input and output devices used
10. Describe different types of monitors with their benefits and	
limitations. [5]	and explain any two of them. [2+1+2] 11. Define the terms spooling and buffering in context to
11. What do you understand by computer software? Differentiate	Operating system.
between system software and application software. [1+4]	12. "Logical errors are difficult to debug compared to syntax
12. Explain different data representation techniques used in	enor, justify this statement.
101	13. What is a flowchart? Explain its types with their symbols
and DNC	used and examples.
	14. What is frame in HTML? Write the use of and and
	rag iii \table> iii H i ML.
	15. Write short notes on: (any two) [2.5+2.5]
	a. Tablet PC
The second secon	b. Concept of John Von Neumann computer
	 Define computer architecture. Draw a logical diagram of computer and explain each block in detail. [1+9] Define an operating system. What is its function? Differentiate between GUI and CUI based operating system. [3+2+5] What are the different Program designing tools? Explain them in detail with examples. [10] a. What do you mean by document formatting in word processing software? What is the use of Thesaurus and speller? [3+2] b. Explain Presentation package with its use, features and example. [5] Group B Short Answer Questions Attempt any nine questions. [9×5=45] What do you mean by generation of computers? Compare the characteristics of third and fourth generation of computers. [1+4] Explain different types of computer on the basis of speed/size. [5] What is octal number system? Convert decimal number 67.625 into binary number system. Perform 10110 – 1100 using 1's complement method. [1+2+2] What is logic gate? Explain basic logic gate in detail. [1+4] Explain cache memory. How is DVD different from CD? [3+2] Describe different types of monitors with their benefits and limitations. [5] What do you understand by computer software? Differentiate between system software and application software. [1+4] Explain different data representation techniques used in computer. [5] Define the terms webpage, website, web-server, browser

Set 5

	Group A
	ng Answer Questions
Att	empt all the questions. [3×10=30]
1.	What are the different storage devices used in a computer
	system? Explain them in detail. [10]
2.	i. What do you mean by virtual memory? How does it differ
	from primary and secondary memory? [2+3]
	ii. Explain the terms hardware interrupt and software
	interrupt. [5]
3.	Explain the different program control structures. Define the
1.27	terms testing and debugging. (8+2)
4.	What is a printer? Explain different printers with their merits
	and demerits. [2+8]
	Group B
Sh	ort Answer Questions
Att	empt any nine questions. [9×5=45]
5.	Define IC. Write the features of fourth generation of
· ·	computers. [1+4]
6.	Explain the main characteristics of super computers. Explain
	their applications in real life situations. [1+4]
7.	Why is binary number system important in digital computers?
	Convert (405.76) ₈ to base 16 number system. [3+2]

Scanner

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