



TERM-1 EXAMINATION (2025-26) INFORMATION TECHNOLOGY (802) / SUBJECT-05

Class : XI A/B/C **Duration: 3 Hrs.** Date : 03-09-2025 Max. Marks: 60 **Admission No.:** Roll No.:

General Instructions:

- (i) Please read the instructions carefully.
- (ii) This question paper consists of 24 questions in two Sections: Section A & Section B.
- (iii) Section A has Objective type questions whereas Section B contains Subjective type questions.
- (iv) Out of the given (6 + 18) = 24 questions, a candidate has to answer (6 + 11) = 17questions in the allotted (maximum) time of 3 hours.
- (v) All questions of a particular section must be attempted in the correct order.

(vi) Section – A: Objective Type Questions (30 marks)

- (a) This section has 06 questions.
- (b) There is no negative marking.
- (c) Do as per the instructions given.
- (d) Marks allotted are mentioned against each question/part.

(vii) Section – B: Subjective Type Questions (30 marks)

- (a) This section has 18 questions.
- (b) A candidate has to do 11 questions.
- (c) Do as per the instructions given.
- (d) Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE OUESTIONS

Q 1.	Answer any 5 out of the given 6 questions on Employability Skills $(1 \times 5 = 5 \text{ marks})$	
i.	What is the purpose of Communication?	1
	a. Inform (tell someone about something) b. Influence (get someone to do something you want) c. Share thoughts, ideas, feelings d. All of the above	
ii.	Which of the following methods is used to receive information from the sender?	1
	a. Listening b. Speaker c. Telling d. Writing	
iii.	What does an upright (straight) body posture convey or show?	1
	a. Shyness b. Fear c. Confidence d. Intelligence	
iv.	refers to knowing one's potential by examining and analysing intellectual and	1
	spiritual capacities ?	
v.	means having the ability to impress the mind, arousing admiration, awe, respect	1
	for the way someone looks or carries oneself.	
	a. Grooming b. Team norms c. Impressive appearance d. None of these	
vi.	refers to a group of people who have complementary skills and work towards a	1
	common goal.	
	a. Group b. Company c. Team d. None of these	

Q 2.	Answer any 5 out of the given 6 questions $(1 \times 5 = 5 \text{ marks})$	
i.	What does the term "IPO" stand for in the context of computer Operations?	1
	a. Input-Process-Output b. Input-program-Output c. Instruct-Process-Operate	
	d. Input-Process-Operate	
ii.	In the binary number system, what does the digit "1" represent?	1
iii.	What is the advantage of using high-level programming languages over machine language?	1
111.	a. Faster execution b. Direct electric signal interpretation	•
	c. Simplicity for developers d. Better compatibility with binary code	
iv.	What are the two main types of storage devices in a computer?	1
IV.		1
	a. RAM and ROM b. HDD and SSD	
	c. Flash Memory and Cache Memory d. USB and Memory Cards	
v.	Which storage device uses spinning disks or platters to store data?	1
	a. Cache Memory b. SSD c. Flash Memory d. HDD	
vi.	What is the main advantage of using an SSD over an HDD?	1
Q 3.	Answer any 5 out of the given 6 questions $(1 \times 5 = 5 \text{ marks})$	
i.	What type of memory is volatile and loses its data when the computer is turned off?	1
ii.	What is the role of the Control Unit (CU) in a CPU?	1
	a. Perform arithmetic operations b. Interpret instructions and manage data flow	
	c. Manage memory storage d. Control input/output devices	
iii.	Which of the following is not an example of an operating system?	1
111.	a. Windows b. macOS c. Linux d. Chrome	•
iv.	What is the role of a driver in computing?	1
11.	a. It allows the operating system to communicate with a specific hardware device.	•
	b. It provides a common platform for programs and devices to communicate with each	
	other.	
	c. It ensures that data is transmitted accurately and efficiently.	
	d. It identifies unique characteristics of peripheral devices.	
3 7	Which of the following is not an example of a hardware device that requires a driver	1
v.	to function properly with an operating system?	1
:	a. Keyboard b. Monitor c. Processor d. Printer	1
vi.	What is the main function of an operating system?	1
Q 4.	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	1
i.	Which of the following is NOT one of the tasks performed by an operating system when a	1
	program is launched?	
	a. Allocating necessary resources b. Ensuring programs interfere with each other	
	c. Manage and scheduling tasks and processes d. Prioritizing tasks based on importance.	
ii.	What is the purpose of assigning a unique process ID to a process in an operating system?	1
	a. To prioritize the process b. To manage the state of the process	
	c. To schedule the execution of the process d. To identify the process	
iii.	What type of memory stores data and instructions that the processors needs to access	1
	quickly?	
	a. Non-volatile memory b. Volatile memory c. Secondary memory d. Tertiary memory	
iv.	How is memory allocated to processes?	1
	a. Static allocation b. Dynamic allocation c. Fixed allocation d. None of these	
v.	Which of the following is an input device?	1
	a. Monitor b. Keyboard c. Printer d. Speakers	
vi.	Which of the following is an output device?	1
	a. Mouse b. Scanner c. Headset d. Projector	
Q 5.	Answer any 5 out of the given 6 questions $(1 \times 5 = 5 \text{ marks})$	
i.	Which of the following input devices is used to capture images of physical documents?	1
	a. Scanner b. Mouse c. Keyboard d. Joystick	•
ii.	Which of the following output devices produces hard copies of digital documents?	1
	men er me reme detput de rices produces mara copies er digital documents :	1

	a. Printer b. Monitor c. Speakers d. Microphone	
iii.	Which of the following is an example of an input-output device?	1
	a. Printer b. Scanner c. Touchscreen d. Speakers	
iv.	What is the primary function of the CPU?	1
	a. To house the main processor b. To execute user instructions	
	c. To provide connections for other	
	d. To store data and information components of the computer.	
v.	How are processors classified?	1
	a. Based on their size and weight b. Based on their colour and design	
	c. Based on their clock speed d. Based on their price and availability cores and	
	manufacturing technology.	
vi.	Why are pen drives popular?	1
Q 6.	Answer any 5 out of the given 8 questions $(1 \times 5 = 5 \text{ marks})$	
i.	What is the result of the expression 8 % 3?	
ii.	Which operator is used to compare if two values are equal in Java?	
•••	a. = = b. = c. != d. None of these	
iii.	What will be the value of x after the following code: int $x=5$; $x +=3$	
	a. 8 b. 5 c. 3 d. 15 Which operator is used to perform logical AND in Java 2	
iv.	Which operator is used to perform logical AND in Java? a. && b. c. ! d. &	
v	What will be the value of y after the following code: int y=10; y *=2;	
v.	a. 5 b. 10 c. 20 d. 12	
vi.	Which operator is used to increment a variable by 1 in Java?	
, 1.	a. ++ b c. += d. *=	
vii.	Predict the output of the following code snippet:	
,	int $x = 5$;	
	System.out.println(x++);	
	System.out.println(++x);	
viii.	Predict the output of the following code snippet:	
	String name = "Java";	
	name.concat(" Programming");	
	System.out.println(name);	
	SECTION B: SUBJECTIVE TYPE QUESTIONS	
	Answer any 3 out of the given 5 questions on Employability Skills (2 x 3 = 6 marks) Answer	
	each question in 20 – 30 words.	
Q 7.	Write down the different types of verbal communication with examples of each.	2
Q 8.	Explain the communication cycle briefly.	2
Q 9.	Write all 7 Cs of effective communication. Explain any one.	2
Q 10.	What is a team? Mention some factors which influence team building.	2
Q 11.	Define time management. Give examples.	2
	Answer any 3 out of the given 5 questions in $20 - 30$ words each $(2 \times 3 = 6 \text{ marks})$	
Q 12.	What is the main difference between RAM and ROM.	2
Q 13.	What are some common uses of pen drives?	2
Q 14.	Name the different types of operating systems	2
Q 15.	What are the various components used to create a GUI front-end interface ?	2
Q 16.	Write a short note on variables and naming convention for variables.	2
0.17	Answer any 2 out of the given 3 questions in 30–50 words each (3 x 2 = 06 marks)	_
Q 17.	Explain the concept of refresh in DRAM and how it affects its performance and operation.	3
Q 18.	What is the role of an operating system in facilitating communication amongst various	3
O 10	hardware and software components of a computing device? Write a java program which takes three numbers as input from the user and display their	3
Q 19.	Write a java program which takes three numbers as input from the user and display their sum and products.	-

	Answer any 3 out of the given 5 questions in $50-80$ words each $(4 \times 3 = 12 \text{ marks})$	
Q 20.	Discuss the advantages and disadvantages of using HDD and SDD as storage devices in a computer. How would you choose between them based on specific needs?	4
Q 21.	What are the limitations to the amount of RAM that can be effectively utilized in a computer system ?	4
Q 22.	What are storage devices? What is the difference between the secondary storage and primary storage of computer?	4
Q 23.	Why is memory allocation in a dynamic manner beneficial for the operating system ?	4
Q 24.	Create a GUI interface in NetBeans IDE which accepts two inputs from the user and calculates all the four arithmetic operations like addition, subtraction, multiplication and division	4

*** ALL THE BEST !***