Directorate of Education, GNCT of Delhi Mid Term Examination Practice Paper Session: 2025-26

CLASS-XI

Computer Science (CODE :083)
Time Allowed: 3 hours

Maximum Marks:70

General Instructions:

- Please check this question paper contains 37 questions
- This paper is dived into 5 sections, A, B, C, D and E.
- All questions are compulsory.
- Section A consists of 21 questions (1 to 21). Each question carries 1 mark.
- Section B consists of 7 questions (22 to 28). Each question carries 2 marks.
- Section C consists of 3 questions (29 to 31). Each question carries 3 marks.
- Section D consists of 4 questions (32 to 35). Each question carries 4 marks.
- Section E consists of 2 questions (36 to 37). Each question carries 5 marks.
- All programming questions are to be answered using Python Language only.

Q. No.		Question	Marks
		SECTION A	
1.	State True or False. "Python is case-sensitive	a language"	1
2.	Which is not an input de		1
	a) Keyboard	b) Printer	
	c) Scanner	d) Mouse	
3.	Which of the following	is a valid variable name?	1
	a) if	b) pass	
	c) roll no	d) age	
4.	Which gate outputs 1 or	aly if both inputs are 1?	1
	a) AND	b) XOR	
	c) NOR	d) NOT	

5.	The output of 1 or 0 and 1 is:		1
	a) True	b) False	
	c) 0	d) 1	
6.	ALU is part of?		1
	a) Input Unit	b) Output Unit	
	c) Central Processing Unit	d) Control Unit	
7.	What type of error is caused by	missnelled keyword?	1
/.	what type of error is caused by	imssperied key word:	
	a) Logical	b) Runtime	
	c) Syntax	d) Compilation	
8.	"Hello" <= "hello" gives outp	ut as:	1
	a) True	b) False	
	c) Hello	d) "hello"	
9.	is equal to 65 in octa	ıl:	1
	a) (110101) ₂	b) (1000001) ₂	
	c) (101010) ₂	d) (100011) ₂	
	(101010)2	a) (100011) ₂	
10.	Which loop is best if iterations known?		1
	a) while loop	b) for loop	
		· -	
	c) do while loop	d) infinite Error	
11.	What will be the output of the following code:		1
		S	
	x = "python"		
	y = "hello"		
	print(y + x)		
	a) "python hello"	b) "hello python"	
	c) "pythonhello"	d) "hellopython"	

12.	Run Time error occurs due to _	1	
	a) Wrong Syntax b)	Misspelled Keyword	
	c) Logical Mistake d)	Illegal operations during execution	
13.	UTF-8 is an encoding scheme of	1	
	a) Images b) Audio	
) Videos	
14.	Which function will convert str	1	
	a) int() b) st	r()	J.
	c) float() d) id		
15.	What is the output of the follow	ring python code:	1
	if 1:		
	print("Not Empty")	(A)	
	else:	Ç Y	
	print("Empty")	O	
	a) Not Empty	b) Empty	
	c) 1	d) Error	
16.	Which of these is a logical operator:		1
	a) ==	b) >=	
	c) or	d) !=	
17.	What is the output of the follow	ring python code:	1
•	n=2		
	while n<7:		
	print(n,end=" ")		
	n+=2		
	a) 2 4 6	b) 2 4 6 7	
	c) 2 7	d) Infinite loop	

18.	18. Which of these will give a runtime error?			
	a) print(1+3)	b) print(1/0)		
	c) print ("Hi")	d) a=8		
19.	Which statement is used to skip	the current iteration in a loop?	1	
	a) break	b) continue		
	c) pass	d) exit		
	Assertion and Reason:	•		
		A statement of Assertion (A) is	J.	
		ason (R). Mark the correct choice		
	as:			
	A) Both A and R are true and R is correct explanation of A			
	B) Both A and R are true but R is not correct explanation of A			
	C) A is true but R is false			
	D) A is false but R is true			
20.	Assertion (A) : Interpreter works	s line by line	1	
	Reason (R): Hence slower than	compiler.		
21.	Assertion (A): NOR is a univers	sal gate.	1	
	Reason (R): Any circuit can be	designed using it.		
	<u>X</u> O'			
		CTION B		
22.		wants to print the squares of all odd ne wrote the following code, but it	2	
_^^		and underline the corrections made.		
	num = 1			
	while num < 20			
	if num $\% 2 = 1$			
	print(num*2)			
	num += 1			

23.	Write a program in python that takes a number as an input from the user and check whether that number is positive, negative, or zero.	2	
24.	What will be the output of following statement:	2	
	(9>=8) and (not False) or (7<3)		
	OR		
	What will be the output of following statement:	$\sqrt{\gamma}$	
	2**3**2+10-2	\mathcal{O}_{λ}	
25.	Differentiate between system software and application software.	2	
26.	What is the output of the following code?	2	
	for i in range(2,5):		
	for j in range $(1,i+1)$:		
	print(j,end="")		
	print()		
27.	Write a Python program that takes an integer as an input from the	2	
	user and check whether a number is divisible by 3 and 5 both.		
	OR		
	Write a Python program that takes an integer input from the user and		
	prints its table.		
28.	Find the Binary equivalent of (FACE) ₁₆ .	2	
	OR		
	Draw the circuit diagram of the following expression:		
^	X'Y'Z'+XY+(XY)'		
	X 1 Z TXI T(XI)		
	SECTION C		
29.	Write a Python program that takes an integer input from the user and	3	
	checks whether the number is prime or not .		

	OR	
	Write a Python program that takes an integer n as input from the user	
	and prints the first n terms of the Fibonacci series .	
	E.g. If the user enters 5, the program should print: 0 1 1 2 3	
	If the user enters 8, the program should print: 0 1 1 2 3 5 8 13	
30.	Prove the following identity using truth table:	$1 \times 3 = 3$
	$A \cdot (B+C) = A \cdot B + A \cdot C.$	
	OR	
	Fill in the blanks:	
	(a)number system uses digits 0 and 1 only.	
	(b)memory is volatile in nature.	
	(c) Ais a collection of instructions that tells a	
	computer what to do.	
31.	Write a Python program to reverse the digits of a number.	3
	OR	
	Write a Python program to find the largest of three numbers	
	entered by the user.	
	SECTION D	
32.	State True or False:	1 x 4 = 4
	(i) Python is an example of a high-level programming	
	language.	
^	(ii) ASCII can represent characters of multiple languages.	
	(iii) In Python, // operator is used for floor division.	
	(iv) In hexadecimal, the digit 'F' represents decimal 15.	
	OR	

	Fill in the blanks:	
	(i) The component of CPU that controls the flow of data is	
	(ii) $(123)_8 = ()_{10}$ (iii) $()_2 = (124)_{10}$	
	(iv) $(AB)_{16} = (\underline{})_2$	$^{\prime}$ O $^{\prime}$
33.	Write a python program to print the following pattern using loops: * * * * * * * * * * * * *	4
34.	Write a program in python to input the value of x and n and print the sum of the following series: $-x+\frac{x^2}{2}-\frac{x^3}{3}+\frac{x^4}{4}-\cdots+\frac{x^n}{n}$	4
35.	Answer the following questions in one word/line. (i) Name one primary memory type. (ii) Expand KB, MB and GB. (iii) Which base is hexadecimal? (iv) Name a Python keyword.	1 x 4 = 4
	SECTION E	
36.	 (i) Write a program in python that accepts two numbers and swap them without using a third variable. (ii) Write a program in python that accepts a and b two integers and compute the greatest common divisor. 	2+3=5

