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Subject: Computer Science(083)

Time: 3:00 Hours	Class 11	Max. Marks: 70
General Instructions		
1. This question paper	has 5 pages.	
2. This question paper	contains five sections, Section A to	o E.
3. All questions are cor	mpulsory.	
4. Section A has 18 que	estions carrying 01 mark each.	
5. Section B has 07 Ver	ry Short Answer questions carrying	g 02 marks each.
	ort Answer type questions carrying	
	ng Answer type questions carrying	05 marks each.
-	estions carrying 04 marks each	
9. All programming que	estions are to be answered in Pyth	ion Language only.
4 Mhigh of the following	Section -A	2000
a) Hard Disk	is not an example of primary men c) ROM	nory?
b) RAM	d) None of th	ese
2. 4 bits makes	_ '\\	
a) 1 Byte	c) 1 MB	
b) 1 KB	d) 1 Nibble	
3. The first stage of doing any task on computers is		
a) Input	c) Output	
b) Process	d) Storage	
4. Which of the following is considered as a manager of computer?		
a) Keyboard	c) CPU	
b) Mouse	d) Printer	
5. The system software t	that converts high level language p	rogram to low level
language is known as		
a) Operating System	c) Utilities	
b) Language Processo	or d) DTP Softwa	are
6. Which of the following	j is a common standard used for ch	aracter
representation in com	puters and commonly used for end	oding schemes?



c) ASCII

d) ISCII

a) Coding

b) Unicode

a) 3	c) 7	
b) 6	d) 9	
8. The output of two – input AND gate is	high when	
a) both inputs are low	c) any one input is high	
b) both inputs are high	d) both b and c	
9. Prutha is trying to convert a string liter	al '3' into integer. But she is confused	
which function out of the following is us	sed to do so? Help her to do the right	
choice for her work.		
a) integer	c) int	
b) number	d) num	
10. Priyansh wants to store the value 3.5	into a variable n. Which of the	
following statement is correct for him	?	
a) int n=5	c) 5=n	
b) n=5	d) n='5'	
11. Which of the following is valid identified	er?	
a) None	c) 0_None	
b) #None	d) none	
12. Which of the following gate is an inver	rter gate?	
a) AND	c) NOT	
b) OR	d) NOR	
13. Which of the following is binary equiva	alent number 20?	
a) 101000	c) 110000	
b) 111000	d) 100100	
14. Which of the following represents OR	gate?	
a b	c. d	
15. Which of the following is the result of	A + 1, if input is A=0?	
a) Always 0	c) Vary from 0 or 1	
b) Always 1	d) None of these	
16. What will be the output of A+A'?		
a) 0	c) Inverse of A	
b) 1	d) Both a) and b)	



Q17 and Q18 are ASSERTION and REASONING based questions. Mark the correct choice as

- (a) Both A and R are true and R is the correct explanation for A
- (b) Both A and R are true and R is not the correct explanation for A
- (c) A is True but R is False
- (d) A is false but R is True
- **17. Assertion(A):** In python program variable a and A both have different significance.
 - **Reason(R):** Python is case insensitive language.
- **18. Assertion(A):** Python does not support explicit type casting.
 - **Reason(R):** Data type is not a part of variable declaration.

Section B

19. Convert the following numbers accordingly:

a) $(110011)_2 = (?)_{10}$

b)
$$(345)_8 = (?)_2$$

20. Draw the logical circuits for : (A'+B')+(CD)'

OR

Prepare a truth table for following: AB'+B'A

- 21. Differentiate between hardware and software.
- **22.** Nisha is confused to choose input and output devices from the following: lightpen, touchscreen, projector, scanner, joystick, printer, plotter, monitor
- 23. Write the full form of the following:

a) SSD

c) DVD

b) CD

d) ROM

24. Identify error in the following code. Rewrite the corrected code after removing errors and underline the corrections:

```
a,b=input("Enter value:")
result=a/*b
print result
```

25. What will be the output of following:

```
a,b=10,5

print(a/b)

print(a%b)

print(a**2)
```



OR

What do you mean by tokens? Explain in short.

Section C

26. Write an algorithm to compute simple interest.

OR

Draw a flow chart to compute area of circle.

- 27. Draw the basic diagram of CPU and explain its three parts in short.
- 28. Write AASCII and equivalent binary values for following words:
 - a) BEACH

b) dad

29. What do you mean by comments? How many types of comments supported by python? Explain each type of comments in detail.

OR

What do you mean by keywords? Explain in detail.

30. Predict the Output:

```
a, b, c = 10,20,30

p, q, r = c - 5, a + 3, b - 4

print('a, b, c:', a, b, c, end =' ')

print("p, q, r:", p, q, r)
```

Section D

31. Write a program to accept bowler name, no. of overs bowled and runs given. Compute economy rate per over.

OR

Write a program to accept two numbers and swap them.

32. Covert the following memory units as directed:

- a) 107 bytes = nibble
- d) 300 nibble = KB

b) 23 GB = ____ KB

e) 3 MB = GB

- c) 561 YB = ____ GB
- **33.** Write algorithm and flowchart to check whether a number is positive or negative.

OR

Write algorithm and draw flow chart to check whether number is one digit or two digit.



Section E

34. Prutha is class 11 student. She is learning python. She wants to display the only the last two digits of a number. She has written the partial code as following:

n= #Statement 1		
ld1= #Statement 2		
n= #Statement 3 Remove the first last digit of a number		
ld2=n%10		
print("Last Digit 1:",, "Last Digit 2",) #Statement 4		

- a) Statement 1 Input n as integer
- b) Statement 2 Get the last digit by modulo division of number by 10
- c) Statement 3 Get new number by removing last digit using floor division by 10
- d) Statement 4 Print the last digit 1 and last digit 2
- **35.** Observe the given logical circuit and write the expression and prove it using truth table:



