PERIODIC II EXAMINATION 2021-2022 COMPUTER SCIENCE (083) MM: 70 TIME: 3 HRS 25.10.2021

INSTRUCTIONS:

- 1. All Questions are compulsory
- 2. Programming Language: Python
- 3. Paper is divided into 3 sections i.e MCQ, Application Based & Programming Practice
- 4. Section A MCQ Section Contains 35 Questions and Carries 1 mark each
- 5. Section B Application Based Contains 10 Questions Carries 2 mark each
- 6. Section C Programming Practice contains 5 Questions Carries 3 marks each

SECTION A (MULTIPLE CHOICE QUESTIONS) - 35 MARKS

Q1.	Which of the following function will raise an error, if the given substring is not			
	found in the string			
	a) find()	b) index()		
	c) replace()	d) all of these		
Q2.	Select the correct output of the following String operations:			
	str1="My roll no is 12."			
	print(str.isalnum())			
	a) True	b) False		
	c) Error	d) No output		
Q3.	Consider the loop given below:		1	
	for i in range(10,5,-3):			
	print(i)			
	How many times will this loop run			
	a) 3	b) 2		
	c) 1	d) Infinite		
Q4.	What is the output produced when thi	-	1	
-	i=1			
	while(i<=7):			
	i*=2			
	print(i)			
	a) 8	b) 16		
	c) 4	d) 14		
Q5.	The capacity of 3.5 inch floppy disk is	,	1	
-				
	a) 1.40MB	b) 1.44MB		
00	c) 1.40GB	d) 1.44 TB	4	
Q6.	ASCII stands for		1	
	a) American Stable Code for	b) American Standard Case for		
	International Interchange	Institutional Interchange		
	c) American Standard Code for	d) American Standard Code for		
	Information Interchange	Interchange Information		
Q7.	The computer size was very large in		1	
	a) First Generation	b) Second Generation		
	c) Third Generation	d) Fourth Generation		
Q8.	$11010011_2 = (?)_{16}$		1	
	a)D3	b) B3		
	c) A3	d) D2		
Q9.	In Boolean Algebra , A+ A=		1	
	-	b) 1		
	a) A	b) 1		
010	c) O	d) None of these	4	
Q10.	In Boolean Algebra , A . A=		1	
	a) A2	b) A		
	c) 2A	d) 1		
Q11.	In Boolean Algebra A+ AB =		1	
	-			

	a) B c) AB		b) A d) A+B			
Q12.	What is pseudocode? a)A diagrammatic representat	tion of a	b) An algorithm written out in words	1		
	set of instructions c)A very specific programming language used by all compute	-	d) All of these			
Q13.	What shape represents a deci	What shape represents a decision in a flowchart				
	a)A diamond		b) A rectangle			
Q14.	c) An oval The mode of Pytho	n gives ind	d) None of these stant result of typed statement	1		
Q14.	a) Interactive	in gives int	b) Script	Ŧ		
	c) Combination of Interactive script mode	and	d) All of these			
Q15.	•	e		1		
	a) High level		b) Object Oriented			
	c)Procedural		d) all of these			
Q16.	Escape Sequence are treated	as		1		
	a) Strings		b) Characters			
047	c)Integers		d) None of these	4		
Q17.	Value 0.000615 is equivalent	το		1		
	a)615E3		b) 615E-3			
	c)0.615E3		d) 0.615E-3			
Q18.	To convert the read value thro is used	ough inpu	t() into a floating point numbers()	1		
	a) floating		b) float			
Q19.	c)int	hoth tho	d)integer operands reference the same object	1		
Q19.	memory, is the oper		operations reference the same object	T		
	a)in		b) is			
	c)id		d) ==	1		
Q20.	value of a different type. This will yield					
	a) Warning c) None	b) Error d) No Eri	ror			
Q21.	-	,	ing code fragment is executed ?	1		
_	x = 10.0 y = (x < 100.0) and x >=			-		
	a)10, True	b) True F	alse			
	c) False, True	d) Error				
Q22.	What will be the result of the	expressio	n 7 or 3 ?	1		
	a) 3	b) 10				
012	c) 7 What will be the recult of the		of the above	1		
Q23.			n 'a' or " (" is an empty string) ?	1		
	a) 'a' c) 1	b) ' ' d) 0				
Q24.	What type of error is returned	,	ollowing statement?	1		
	print(eval(13))		0			
	a) SyntaxError	b) Type I				
025	c) Value Error		ror in this statement	1		
Q25.	in Python , which of the follow	wing will c	reate a block in a compound statement.	1		
	a) colon	b) stater	nents indented at a lower, same level			
	c)indentation in any form	d) { }				
Q26.	What does the following Pyth	on progra	ım display:	1		
	x=3					

if x==0: print('Am i here',end='') elif x==3: print('Or here?',end='') else: pass print('Or over here?') a) Am I here b) Or here c) AM I here Or here? d) Or here? Or over here? Q27. Function range(3) will yield an iterable sequence like -----1 b) range(0,3) a) range(1,3) c) range(0,3,1) d) range(1,3,0) Q28. How many times does the following code execute? 1 x=1 while(x<=5): x+=1 print(x) a) 6 b) 1 c) 4 d) 5 Q29. Which of the following is False regarding loops in Python? 1 a) Loops are used to b) While loop is used when multiple statements perform certain tasks are to executed repeatedly until the given repeatedly. condition becomes False c) While loop is used when d) for loop can be used to iterate through the multiple statements are to elements of lists executed repeatedly until the given condition becomes True. The continue statement can be used in? Q30. 1 a) while loop b) for loop c) do-while d) Both A and B Q31. What will be the output of given Python code? 1 n=7 c=0 while(n): if(n>5): c=c+n-1 n=n-1 else: break print(n) print(c) a)2,7 b) 6,5 d) 5,11 c) 3,9 Q32. Which of the following Python code will give different output from the others? 1 a) for i in range(0,5): b) for j in [0,1,2,3,4]: print(i) print(j) c) for k in [0,1,2,3,4,5]: d) for l in range(0,5,1): print(I) print(k) Q33. Which of the the following functions will returns a list containing all words of 1 the string? a) find() b) partition() c)index() d) split() Q34. str1='mission 999' 1 str2='999' print(str1.isdigit(), str2.isdigit())

Q35.	a) False,True b) False,False c)True False d) True true Which of the following function will raise an error if the given substring is not found in the function to remove the space? a) Istrip b) rstrip c) strip d) all of these	1					
	SECTION B (APPLICATION BASED QUESTIONS) – 20 MARKS						
Q36.	Draw the logic diagram for the following Boolean expression	2					
Q37.	 i) A'BC+AB'C+ABC' ii) AB+B'C Predict an output of the following code: x=10 	2					
Q38.	y=0 while x>y: print(x,y) x=x-1 y=y+1 Convert (FACE) ₁₆ to (?) ₈	2					
-							
Q39.	s='987654321' print(s[-1],s[-3]) print(s[-3],s[:-3]) Find an output of the following code	2					
Q40.	Draw a flow chart to find the cube of any number.	2					
Q41.	Suggest appropriate function for the following tasks: (i). To find the occurrence of a string within another string. (ii). To remove all white spaces from the beginning of a string	2					
Q42.	How is Break statement different from continue.	2					
Q43.	Write the following expression in Python: i) πr ² h ii) a ⁻ⁿ =1/a ⁿ	2					
Q44.	Find out the errors in the code fragment: i) y=x+5 print(x,y) ii) print(x=y=5)	2					
Q45.	What do you mean by Cross platform software?	2					
SECTION C (PROGRAMMING PRACTICE)- 15 MARKS							
Q46.	Write a program to obtain principal amount, rate of interest from user and	3					
Q47.	computer simple interest. Write a program to check given year is leap year or not.	3					
Q48.	Write a program which consider any string and perform the following: 1. Search any given substring 2. Find the index of substring from which it starts.	3					
Q49.	Write a program which consider any string and count no of upper case character and lower case character present in it. Exmaple. If a string is ' sAmpLe ProGram' then	3					
No of upper case characters: 4, No of lower case characters: 9							
Q50.	Write a program to find the area of rectangle.	3					