

PRE BOARD EXAMINATION-2019

COMPUTER SCIENCE (083)

Question Paper Design

Type of Questions	Marks Per Question	Total Number of Questions	Total Marks
VSA	1	17	17
SA I	2	11	22
SA II	3	05	15
LA	4	4	16
Total		37	70

- VSA: Very Short Answer Type
- SA : Short Answer Type
- LA : Long Answer Type

BLUE PRINT

Topic / Unit	VSA (1 mark)	SAI (2 marks)	SA II (3 marks)	LA (4 marks)	Total
Programming and Computational Thinking	6(6)	4(8)	4(12)	1(4)	15(30)
Computer Networks	4(4)	2(4)	1(3)	1(4)	8(15)
Data Management	5(5)	1(2)	-	2(8)	8(15)
Society, Law and Ethics	2(2)	4(8)	-	-	6(10)
Total	17(17)	11(22)	5(15)	4(16)	37(70)

MARKING SCHEME
PREBOARD EXAMINATION-2019
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Section-A		
Q.1	a)	in and not in are the Membership operator Supported by python 1 mark for name and 1 mark for suitable example
	b)	i) numpy ii) Math ½ mark for each correct answer
	c)	i) valid ii) invalid iii) valid iv) invalid
	d)	<pre>def execmain(): x = input("Enter a number:") if (abs(x) == x): print("You entered a positive number") else: x*=-1 print("Number made positive:", x)</pre> ½ mark for each error correction
	e)	2.33 GFGNO 2 marks for correct output
	f)	Option i) and iv) are correct 1 mark for each correct option
	g)	20000 # 100.0 100.0 \$ 200 2000 # 200.0 100.0 \$ 200.0 1000.0 # 100.0 100.0 \$ 200.0 ½ mark for each correct line of output
Q.2	a)	1 mark for correct definition and 1 mark for use of <u>global</u> keyword to use global variable
	b)	i) mutable ii) immutable iii) mutable iv) immutable
	c)	<pre>l=[25,24,35,20,32,41] s=0 for i in l: if i%2!=0: s+=i*2 print(s)</pre> 3 marks for correct code
	d)	def DoPush(Customer):

		<pre> name=input("Enter Customer Name") Customer.append(name) def DoPop(Customer): if len(Customer)==0: print("Underflow") else: Customer.pop() </pre> <p>2 mark for each correct function</p>	
	e)	<pre> f=open('CODE.TXT','r+') s=f.readlines() c=0 sl=s.split() for i in sl: if len(i)>=5: c=c+1 print(c) </pre> <p>3 marks for correct code</p>	
	f)	Correct option: d) {0: 0, 1: 1, 2: 4, 3: 9, 4: 16, 5: 25}	
	g)	2 marks for correct code and plotting	
	h)	Correct option: ii) False 1 mark for correct option	
Section-B			
Q.3	a)	3 marks for correct explanation	
	b)	i) Simple mail transfer protocol ii) Voice over Internet Protocol iii) Global System for Mobile iv) Post office Protocol	
	c)	1 marks for correct definition	
	d)	Correct option is iii)	
	e)	Correct option is iii)	
	f)	i) Administrative office ii) 1 mark for correct cable layout iii) switch iv) star topology, Ethernet cable 1 mark for each correct option	
	g)	1 mark for definition and 1 mark for correct difference	
	h)	RDP (Remote Desktop Protocol) or Telnet	
Section-C			
Q.4	a)	Distinct clause 1 mark for correct answer	
	b)	ii) Select 1 mark for correct answer	
	c)	i) 14 1 mark for correct answer	
	d)	a) Select Name from SPORTS where Grade1='A' OR Grade2='A'; b) Select count(*) from SPORTS group by GAME1 having GRADE1='A';	

		c) Select Name from SPORTS where Game1=Game2; d) Select Game1,Game2 from SPORTS where Name LIKE 'A%'; 1 mark for each correct answer	
	e)	i) 6 ii) 4 iii) 10 i) 2 2 1 1 1 mark for each correct answer	
	f)	cursor.commit()	
	g)	2 marks for correct answer	
	h)	2 marks for correct query to create the table	
Section-D			
Q.5	a)	2 marks for correct answer	
	b)	2 marks for correct answer	
	c)	Firewall 1 mark for correct answer	
	d)	2 marks for correct answer	
	e)	ii) Phishing	
	f)	2 marks for correct answer	