

**MARKING SCHEME**  
**PREBOARD EXAMINATION-2019**  
**COMPUTER SCIENCE (083)**

**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)	<b>2.33 GFGNO</b> 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)	<pre>def DoPush(Customer):     name=input("Enter Customer Name")     Customer.append(name) def DoPop(Customer):     if len(Customer)==0:         print("Underflow")     else:         Customer.pop()</pre> 2 mark for each correct function	
	e)	<pre>f=open('CODE.TXT','r+') s=f.readlines() c=0 sl=s.split() for i in sl:     if len(i)&gt;=5:         c=c+1 print(c)</pre>	

		3 marks for correct code	
	f)	Correct option: d) (0: 0, 1: 1, 2: 4, 3: 9, 4: 16, 5: 25) 2 mark for correct option	
	g)	2 marks for correct code and plotting	
	h)	Correct option: ii) False 1 mark for correct option	
<b>Section-B</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	
<b>Section-C</b>			
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	
<b>Section-D</b>			
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	