

KENDRIYA VIDYALAYA SANGATHAN MUMBAI REGION
2nd Preboard Examination 2019-2020

CLASS – XII

SUBJECT: COMPUTER SCIENCE NEW (083)

Marking Scheme

1.(a) Valid Identifier:- `_count` , `For` ,`Total` ,`Name1` **(1/2 marks for each correct answer)** 2

(b) i) `math` ii) `random` iii) `math` iv) `matplotlib.pyplot` **(1/2 mark for each module)** 2

(c) Numbers, Integer, Boolean Floating Point, Complex, None Sequences, Strings 2

`Tuple`, `List`, `Sets`, `Mappings`, `Dictionary` **(1/2 mark for any four correct datatypes)**

(d) `To=30` 2

for `K` in `range(0,To)`:

 if `k%4==0`:

`print (K*4)`

 else:

`print (K+3)`

(1/2 mark for each correction)

(e) (ii) `30#40#50#` Maximum value FROM,TO is 3,4) 2

(1/2 mark each for maximum value) (1 mark for correct output option)

Q.2 (a) `def power (x,n):` 2

 if `n==0`:

`return 1`

 else:

`return x*power(x,n-1)`

1/2 mark for function header

1 mark for correct logic

1/2 mark for writing recursive call

(b) **1/2 mark for function header** 2

1 mark for correct logic

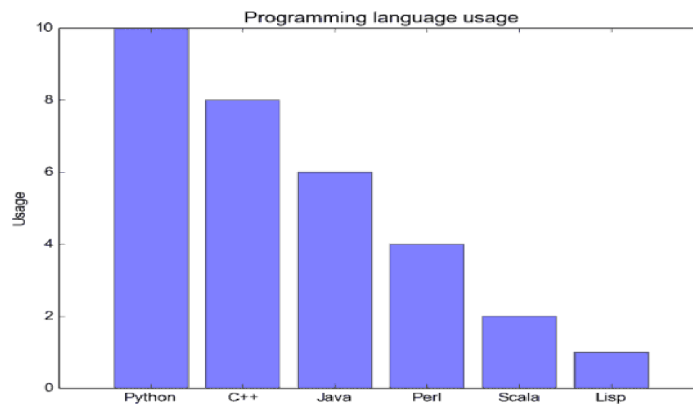
1/2 mark for writing function call

(c) `PREBOARDbbbbCOM` 2

(2 marks for correct output)

(d)

2



(2 marks for correct output)

(e) `f=open("an.txt", "r")`

2

`for line in f:`

`words=line.split()`

`for i in words:`

`for letter in i:`

`if(letter.isdigit()):`

`print(letter)`

(½ Mark for opening the file)

(½ Mark for reading all lines, and using loop)

(½ Mark for checking condition)

(½ Mark for printing lines)

Q.3(a) `def INSERTQ(Arr):`

4

`data=int(input("enter data to be inserted: "))`

`Arr.append(data)`

`def DELETEQ(Arr):`

`if (Arr==[]):`

`print( "Queue empty")`

`else:`

`print ("Deleted element is: ",Arr[0])`

`del(Arr[0])`

(½ mark insert header)

(½ mark for accepting a value from user)

- (½ mark for adding value in list)
- (½ mark for delete header)
- (½ mark for checking empty list condition)
- (½ mark for displaying “Queue empty”)
- (½ mark for displaying the value to be deleted)
- (½ mark for deleting value from list)
- (b) (2 marks for any 2 correct points) 2
- (c) Ans=3 (2 marks for correct steps and correct answer, partial marks can be given) 2
- (d) (½ mark to write function header)(1½ mark for writing correct function for Binary search) 2
- Q.4(a) 1) WHERE conditions are applicable on individual rows whereas HAVING conditions are applicable on groups as formed by GROUP BY clause 2
- 2) Example-Correct SQL command using both clauses
- (1 mark for each correct point)
- (b) Any 4 correct command (½ mark for each correct command) 2
- (c) Correct definition (1 mark) 2
- Correct example (1 mark)
- (d) GET- HTTP request is made to request data from the server. This request sends a URL to the webserver and the webserver returns the asked webpage’s html, which the web client displays in the browser as a webpage. 2
- POST- HTTP request is made to submit data to be processed to the webserver
- This request is made by the web clients when it has data which the webserver has to process. The POST request carries the data from web client to the web server.
- (e) (1 mark for correct definition) 1
- (f) i) Select activitename from activity order by Acode desc; 1
- ii) Select sum(PrizeMoney) from ACTIVITY GROUPBY ParticipantsNum having ParticipantsNum IN(10,12,16) 1
- iii) Select Name, Acode from Coach Order by Acode 1
- iv) Select * from Activity where ScheduleDate>01/01/2004 order by 1

ParticipantsNum	
v) 3	1/2
vi) 19-Mar-2004, 12-Dec-2003	1/2
vii) 54000	1/2
viii) 16, 10, 12	1/2
Q.5 (a) correct definition of cyber-crime and phishing (1 mark each)	2
(b) Any 2 correct points	2
(c) (i) Bank Fraud (ii) Identity Theft (iii) Cyber Stalking	3
(1 mark for each correct answer)	
(d) i) world wide web consortium ii) GNU not Unix	2
iii) Software Development life cycle iv) Free Libre/Liver open source system	
(1/2 mark for correct answer)	
(e) Correct meaning of plagiarism	1
Q.6 (a) Any 2 correct difference	2
(b) i) It is used to get some information on a specific domain name, such as who registered it, when was it registered and when the domain will expire etc.	2
ii) It displays detailed information about the network you are connected to	
(c) Any 2 correct difference	2
(d) i) Single dimensional parity checking	2
ii) Two dimensional parity checking	
iii) Checksums	
(Write any 2 and 1 mark for each)	
(e) Any 2 correct difference	2
(f) IP address is a unique numerical label as a string of numbers separated by dots, used to identify a device on the internet.	1
(g) i) Cable layout diagram	1
ii) Block-C because it has maximum number of computers and nearest to all other blocks so as per 80-20 rule, it will become server.	1
iii) (i) Placement of repeater is in between every 2 blocks	1
(ii) Placement of Hub/switch is in every block (1/2 mark for each correct)	

