# KENDRIYA VIDYALAYA SANGATHAN, JAIPUR REGION <br> FIRST PRE-BOARD EXAMINATION 2020-21 <br> Class: XII Sub: Computer Science (083) <br> MARKING SCHEME 

Maximum Marks: 70
Time Allowed: 3 hours

## General Instructions:

1. This question paper contains two parts $A$ and $B$. Each part is compulsory.
2. Both Part A and Part B have choices.
3. Part-A has 2 sections:
a. Section - I is short answer questions, to be answered in one word or one line.
b. Section - II has two case studies questions. Each case study has 4 case-based subparts. An examinee is to attempt any 4 out of the 5 subparts.
4. Part-B is Descriptive Paper.
5. Part- $B$ has three sections
a. Section-I is short answer questions of 2 marks each in which two question have internal options.
b. Section-II is long answer questions of 3 marks each in which two questions have internal options.
c. Section-III is very long answer questions of 5 marks each in which one question has internal option.
6. All programming questions are to be answered using Python Language only

| Q. No. | Part-A | Marks |
| :--- | :--- | :--- |
|  | Section- I <br> Select the most appropriate option out of the options given for each question. <br> Attempt any 15 questions from question no 1 to 21. |  |
| 1 | c) 3rdPlace <br> (1 Mark for correct answer, No partial marking) | 1 |
| 2 | $[1,55,87,1]$ <br> (1 Mark for correct answer, $1 / 2$ mark for partial correct answer) | 1 |
| 3 | pickle <br> (1 Mark for correct answer, No partial marking $)$ | 1 |
| 4 | d) <> <br> (1 Mark for correct answer, No partial marking) | 1 |


| 5 | b) $\operatorname{print}(\mathrm{L}[-1])$ <br> (1 Mark for correct answer, No partial marking) | 1 |
| :---: | :---: | :---: |
| 6 | country=\{"india":"New Delhi","Sri Lanka":"Colombo","China":"Beijing"\} or any other correct answer. <br> (1 Mark for correct answer, $1 / 2$ mark for partial correct answer) | 1 |
| 7 | Anil <br> (1 Mark for correct answer, No partial marking) | 1 |
| 8 | capitalize() <br> (1 Mark for correct answer, No partial marking) | 1 |
| 9 | SMTP <br> (1 Mark for correct answer, No partial marking) | 1 |
| 10 | Cyberstalking or cyberbullying <br> (1 Mark for correct answer, No partial marking) | 1 |
| 11 | DISTINCT <br> (1 Mark for correct answer, No partial marking) | 1 |
| 12 | BETWEEN command/clause is used to retrieve values within a range in a SELECT, INSERT, UPDATE, or DELETE statement. <br> (1 Mark for correct answer, $1 / 2$ mark for partial correct answer) | 1 |
| 13 | SUM(),count() or any other two correct answer. ( $1 / 2$ mark for each correct answer) | 1 |
| 14 | INSERT <br> (1 Mark for correct answer, NO partial marking) | 1 |
| 15 | Radio wave or Microwave or Satellite <br> (1 Mark for correct answer, NO partial marking) | 1 |
| 16 | b. string <br> (1 Mark for correct answer, NO partial marking) | 1 |


| 17 | Basic <br> $(1$ Mark for correct answer, $1 / 2$ mark for partial correct answer) | 1 |
| :--- | :--- | :--- |
| 18 | SELECT COUNT(*) FROM EMP; <br> $(1$ Mark for correct answer, $1 ⁄ 2$ mark for partial correct answer) | 1 |
| 19 | Uniform Resource Locator. <br> $(1$ Mark for correct answer, $1 / 2$ mark for partial correct answer) | 1 |
| 20 | b) One <br> $(1$ Mark for correct answer, NO partial marking $)$ <br> $(1$ Mark for correct answer, NO partial marking $)$ | 1 |
| 21 | bps,Kbps,Mbps,Gbps,Tbps |  |


|  |  | Section-II <br> Evaluate only 4 sub parts from each question. Each question carries 1 mark |  |
| :---: | :---: | :---: | :---: |
| 22 | a | ItemNo <br> (1 Mark for correct answer, NO partial marking) | 1 |
|  | b | Degree: 4 Cardinality: 7 <br> ( $1 / 2$ mark for each correct answer) | 1 |
|  | c | INSERT INTO CHSTORE(ItemNo, ItemName, SCode,Quantity) VALUES(21010," Trocars", 14,28) or <br> INSERT INTO CHSTORE VALUES(21010," Trocars", 14,28) <br> (1 Mark for correct answer, $1 / 2$ mark for partial correct answer) | 1 |
|  | d | c) Alter <br> (1 Mark for correct answer, NO partial marking) | 1 |
|  | e | DESC CHSTORE OR <br> SHOW CREATE TABLE CHSTORE <br> (1 Mark for correct answer, NO partial marking) | 1 |


| 23 | Suresh is writing a program to create a CSV file "files.csv" which will contain filetypes and file extensions for some records. He has written the following code. As a programmer, help him to successfully execute the given task. ```Import # Line 1 def addinFile(filetype,extension): # to write /add data into the file f=open('---------------','------------') # Line 2 newFileWriter = csv.writer(f) newFileWriter.writerow([filetype,extension]) f.close() #csv file reading code def readFile(filename): # to read data from CSV with open(filename,'r') as nf: nfr = csv.``` $\qquad$ <br> ```(nf) \\ for row in nfr: \\ print (row[0],row[1]) \\ nf.``` $\qquad$ <br> ```\# Line 4 \\ addinFile("C++",".cpp") \\ addinFile("Python",".py") \\ addinFile("Java",".java") \\ addinFile("Microsoft Excel",".xls") \\ readFile(. \(\square\)None``` |  |
| :---: | :---: | :---: |
|  | (a) import csv | 1 |
|  | (b) a | 1 |
|  | (c) reader | 1 |
|  | (d) close() | 1 |
|  | (e) files.csv | 1 |
|  | (1 Mark for each correct answer, NO partial marking) |  |
|  | Part - B |  |
|  | Section-I |  |



| 27 | (1 mark for correct difference and 1 mark for correct example) or <br> (1/2 mark for partial correct difference and $1 / 2$ mark for partial correct example) <br> OR <br> $x=100 \quad$ \# Global var $x$ <br> def myfunc(a): \# Local var a <br> k=a \# Local var k <br> print(k,a) <br> $\mathrm{p}=(0,1,2,3,4) \quad$ \# Global var p <br> myfunc(p) <br> print(x) <br> (1/2 mark for each correct answer) | 2 |
| :---: | :---: | :---: |
| 28 | $\begin{aligned} & \underline{x=310} \\ & \text { for } z \text { in } \\ & \text { if } z / / 5==0: \\ & \text { print }\left(z^{* *} 5\right) \\ & \text { elif } z \% 5==0: \\ & \quad \operatorname{print}(z+300) \end{aligned}$ <br> (1/2 mark for each correct answer) | 2 |
| 29 | Option (i),(iii) \&(iv) (11⁄2 mark for correct answer)(No partial marking) <br> Maximum $=4$ Minimum $=1$ ( $1 / 2$ mark for correct answer) | 2 |
| 30 | (1 mark for correct definition and 1 mark for correct example) <br> ( $1 / 2$ mark for partial correct definition and $1 / 2$ mark for partial correct example) | 2 |
| 31 | (1 mark for correct definition and 1 mark for correct example) <br> ( $1 / 2$ mark for partial correct definition and $1 / 2$ mark for partial correct example) | 2 |
| 32 | Write the full forms of DDL and DML. Write any one command of each. ( $1 / 2$ mark for each correct full form and $1 / 2$ mark for each correct example) ( NO mark for partial correct form (if any)) | 2 |
| 33 | C*@@@K*\#@@ <br> (2 mark for correct answer) or <br> ( $1 \frac{1}{2}$ or 1 or $1 / 2$ mark for partial correct answer) | 2 |
|  | Section- II |  |


| 34 | ```def Display(num): for i in num: if i%10==0: print(i,end=" ") print() for i in num: if i%10!=0: print(i,end=" ") (1/2 marks for correct function header) (1 mark for correct loop for printing number ending with 0) (1 mark for correct loop for printing number not ending with 0) (1/2 mark for printing number in respective line)``` | 3 |
| :---: | :---: | :---: |
| 35 | ```def DisplayWords(): f=open("D://STORY.txt","r") s=f.read() for w in s.split(): if "s" in w or "S" in w: print(w) f.close() OR def WordCount(): f=open("D://mydiary.txt","r") ln=0 for line in f: ln=ln+1 c=0 for word in line.split(): c=c+1 print("Line No",ln,":",c) f.close() \\ ( \(1 / 2\) marks for correct function header) \\ ( \(1 / 2\) mark for correct opening file) \\ ( \(1 / 2\) mark for correct reading from file) \\ (1/2 mark for correct condition or counting loop) \\ ( \(1 / 2\) mark for printing output correctly) \\ ( \(1 / 2\) mark for closing file correctly)``` | 3 |

i) General 2

Ortho 2
ENT 2
Heart 2
ii) $\quad 400000 \quad 120000 \quad 31 / 07 / 2018$
iii) Parveen Ortho Jodhpur

Satyajeet ENT Jaipur
Vijay ENT Jaipur
Kamlesh Ortho Jodhpur
(1 mark for each correct answer)
( $1 / 2$ mark for each partially answer)

| 37 | ```top=-1 stk=[] def PUSH_IN(L): # Allow additions to the stack for i in L: if i%2==0: stk.append(i) top=len(stk)-1 (1/2 marks for correct function header) (1 mark for correct accessing of list elements) (1/2 mark for correct condition for even number) (1/2 mark for applying append() correctly) (1/2 mark for assignment in variable top) OR def isEmpty(stk): # checks whether the stack is empty or not if stk==[]: return True else: return False def POP_OUT(stk): if isEmpty(stk): # verifies whether the stack is empty or not print("Stack Underflow") else: # Allow deletions from the stack item=stk.pop() if len(stk)==0: top=-1 else: top=len(stk) return item (1/2 marks for correct POP_OUT() function header) (1/2 mark for checking empty stack status) (1/2 mark for removing item for stack ) (1 mark for assignment in variable top) (1/2 mark for returning the deleted item)``` | 3 |
| :---: | :---: | :---: |
|  | Section-III |  |


| 38 | a. Best wired medium- Twisted pair cable <br> ( $1 / 2$ mark for correct wire medium and $1 / 2$ mark for correct cable layout) <br> b. The server should be installed at Wing S (Senior) as per $80-20$ rule i.e. maximum traffic should be local and minimum traffic should pass over backbone. <br> ( $1 / 2$ mark for correct server block and $1 / 2$ mark for correct justification) <br> c. Firewall. <br> ( 1 mark for correct answer, No partial marking) <br> d. Device: Wireless Access Point or Router or WiFi hotspot device or Wifi Dongle Protocol: IEEE 802.11x or TCP/IP <br> ( $1 / 2$ mark for correct Device and $1 / 2$ mark for correct protocol) <br> e. Switch <br> ( 1 mark for correct answer, No partial marking) | 5 |
| :---: | :---: | :---: |
| 39 | a. SELECT * FROM DOCTOR WHERE DEPARTMENT='ENT'; <br> b. SELECT DNAME FROM DOCTOR WHERE GENDER='M' AND DEPARTMENT='GENERAL' AND SALARY>120000; <br> c. SELECT DNAME,DATE_OF_JOIN FROM DOCTOR ORDER BY DATE_OF_JOIN DESC; <br> d. SELECT DNAME,SALARY,AGE FROM DOCTOR WHERE GENDER='F'; <br> e. SELECT DEPARTMENT,COUNT(*) AS "NO OF DOCTORS" FROM DOCTOR GROUP BY DEPARTMENT; <br> (1 mark for each correct answer) <br> ( $1 / 2$ mark for each partially correct answer) | 5 |
| 40 | ```(i) import pickle def CreatePC(): lst=[2726,"Accer","SHWH",49500.25] #List f=open("d:\\Computers.dat","ab+") # file in binary mode pickle.dump(lst,f) # adding in binary file f.close() ( }1/2\mathrm{ mark for correct function header) ( }1/2\mathrm{ mark for correct opening of file) ( }1/2\mathrm{ mark for correct writing into file) ( 1/2 mark for correct file closing statement) (ii) def FindPCs(prc): f=open("d:\\Computers.dat","rb") # Open in read mode while True: try: rec=pickle.load(f) # Reading from file till end if prc>=rec[3]: print("----------------------------------") print("CNo:",rec[0])``` | 5 |

```
print("Make:",rec[1])
print("Model:",rec[2])
print("Price:",rec[3])
```

        except EOFError:
    break
    print("-------------------------------------"
    f.close()
    ( $1 / 2$ mark for correct function header)
( $1 / 2$ mark for correct opening of file)
( $1 / 2$ mark for correct Loop for reading from file till EOF)
( $1 / 2$ mark for correct reading from file)
( $1 / 2 / 2$ mark for correct comparison/if condition)
( $1 / 2$ mark for correct printing of record)

OR
def Player_Count():
f=open("d:<br>Club.dat","rb") \# Open in read mode
count=0
while True:
try:
rec=pickle.load(f) \# Reading from file till end
if 7500>=rec[3]:
print("-----------------------------------")
print("PNo:",rec[0])
print("Name:", rec[1])
print("Game:", rec[2])
print("Fee:",rec[3])
if rec[3]>10000:
count=count+1
except EOFError:
break
print("----------------------------------")
print("No of player paying fee above 10000=", count)
f.close()
( $1 / 2$ mark for correct function header)
( $1 / 2$ mark for correct opening of file)
( $1 / 2 / 2$ mark for correct $L o o p$ for reading from file till EOF)
( $1 / 2$ mark for correct reading from file)
( $1 / 2$ mark for correct comparison/if condition for fee 7500)
( $1 / 2$ mark for correct printing of record details)
( $1 / 2$ mark for correct comparison/if condition for fee 10000)
( $1 / 2 / 2$ mark for correct counting)
( $1 / 2$ mark for correct printing of counted records for fee 10000)
( $1 / 2$ mark for correct closing of file).

