



CASE STUDY QUESTIONS

Case Study Questions in Text Book with Page No's:

Unit – I

Review of Python Basics

Q.No: 2 Pg.No: 1.72

Unit – II

Functions

Q.No: 2 Pg.No: 2.74

Unit – IV

Data File Handling

Q.No: 1,3 Pg.No: 4.68

Unit – V1

Data Structures in Python

Q.No: 1 Pg.No: 6.30

Unit – VII

Computer Networks

Q.No: 2,3,5,6,8 Pg.No:7.57-7.64

Unit – VIII

Relational Database and SQL

Q.No: 1,2,3 Pg.No:8.81-8.82

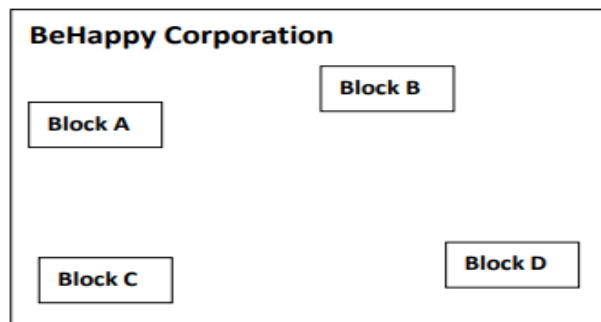
Total No.of book in Questions : 13

Additional Questions: 03

Total Case Study Questions: 16

ADDITIONAL CASE STUDY QUESTIONS

(1) Be Happy Corporation has set up its new centre at Noida, Uttar Pradesh for its office and web-based activities. It has 4 blocks of buildings.



Distance between the various blocks is as follows:

| | |
|---------------|-------------|
| A to B | 40 m |
| B to C | 120m |
| C to D | 100m |
| A to D | 170m |
| B to D | 150m |
| A to C | 70m |

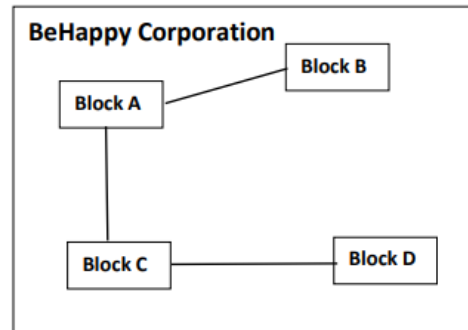
Numbers of computers in each block

| | |
|----------------|------------|
| Block A | 25 |
| Block B | 50 |
| Block C | 125 |
| Block D | 10 |

(a) Suggest and draw the cable layout to efficiently connect various blocks of buildings within the Noida centre for connecting the digital devices.

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Ans:



(b) Suggest the placement of the following device with justification

(i) Repeater

(ii) Hub/Switch

Ans: Repeater: between C and D as the distance between them is 100 mts

Hub/ Switch : in each block as they help to share data packets within the devices of the network in each block

(c) Which kind of network (PAN/LAN/WAN) will be formed if the Noida office is connected to its head office in Mumbai?

Ans: WAN

(d) Which fast and very effective wireless transmission medium should preferably be used to connect the head office at Mumbai with the centre at Noida?

Ans: Satellite

(2) Rohit, a student of class 12th, is learning CSV File Module in Python. During examination, he has been assigned an incomplete python code (shown below) to create a CSV File 'Student.csv' (content shown below). Help him in completing the code which creates the desired CSV File.

CSV File

1,AKSHAY,XII,A

2,ABHISHEK,XII,A

3,ARVIND,XII,A

4,RAVI,XII,A

5,ASHISH,XII,A

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Incomplete Code

```
import_____ #Statement-1

fh = open(_____, _____, newline="") #Statement-2

stuwriter = csv._____ #Statement-3

data = []

header = ['ROLL_NO', 'NAME', 'CLASS', 'SECTION']

data.append(header)

for i in range(5):

    roll_no = int(input("Enter Roll Number : "))

    name = input("Enter Name : ")

    Class = input("Enter Class : ")

    section = input("Enter Section : ")

    rec = [_____] #Statement-4

    data.append(rec)

    stuwriter. _____ (data) #Statement-5

fh.close()
```

1. Identify the suitable code for blank space in line marked as Statement-1.
2. a) csv file
3. b) CSV
4. c) csv
5. d) Csv

Correct Answer : c) csv

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1. Identify the missing code for blank space in line marked as Statement-2?
2. a) "School.csv","w"
3. b) "Student.csv","w"
4. c) "Student.csv","r"
5. d) "School.csv","r"

Correct Answer : b) "Student.csv","w"

iii. Choose the function name (with argument) that should be used in the blank space of line marked as Statement-3

1. a) reader(fh)
2. b) reader(MyFile)
3. c) writer(fh)
4. d) writer(MyFile)

Correct Answer : c) writer(fh)

4. Identify the suitable code for blank space in line marked as Statement-4.
5. a) 'ROLL_NO', 'NAME', 'CLASS', 'SECTION'
6. b) ROLL_NO, NAME, CLASS, SECTION
7. c) 'roll_no','name','Class','section'
8. d) roll_no,name,Class,sectionc) co.connect()

Correct Answer : d) roll_no,name,Class,section

1. Choose the function name that should be used in the blank space of line marked as Statement-5 to create the desired CSV File?

1. a) dump()
2. b) load()
3. c) writerows()
4. d) writerow()

Correct Answer : c) writerows()

(3) Krrishnav is looking for his dream job but has some restrictions. He loves Delhi and would take a job there if he is paid over Rs.40,000 a month. He hates Chennai and demands at least Rs. 1,00,000 to work there. In any another location he is willing to work for Rs. 60,000 a month. The following code shows his basic strategy for evaluating a job offer.

Code:

pay= _____

location= _____

```
if location == "Mumbai":  
  
    print ("I'll take it!") #Statement 1  
  
elif location == "Chennai":  
  
    if pay < 100000:  
  
        print ("No way") #Statement 2  
  
    else:  
  
        print("I am willing!") #Statement 3  
  
    elif location == "Delhi" and pay > 40000:  
  
        print("I am happy to join") #Statement 4  
  
    elif pay > 60000:  
  
        print("I accept the offer") #Statement 5  
  
    else:  
  
        print("No thanks, I can find something  
better")#Statement 6
```

On the basis of the above code, choose the right statement which will be executed when different inputs for pay and location are given.

1. Input: location = "Chennai", pay = 50000
2. Statement 1
3. Statement 2
4. Statement 3
5. Statement 4

Correct Answer : ii. Statement 2

1. Input: location = “Surat” ,pay = 50000
2. Statement 2
3. Statement 4
4. Statement 5
5. Statement 6

Correct Answer: d. Statement 6

iii. Input- location = “Any Other City”, pay = 1

1. Statement 1
2. Statement 2
3. Statement 4
4. Statement 6

Correct Answer: d. Statement 6

1. Input location = “Delhi”, pay = 500000
2. Statement 6
3. Statement 5
4. Statement 4
5. Statement 3

Correct Answer: c. Statement 4

1. Input- location = “Lucknow”, pay = 65000
2. Statement 2
3. Statement 3
4. Statement 4
5. Statement 5

Correct Answer: d. Statement 5
