Help Button :	No
Show Reports :	No
Show Progress Bar :	No

Group I

Group Number :	1
Group Id :	64065316964
Group Maximum Duration :	0
Group Minimum Duration :	90
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	355
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No
Revisit allowed for group Instructions? :	Yes
Maximum Instruction Time :	0
Minimum Instruction Time :	0
Group Time In :	Minutes
Navigate To Group Summary From Last Question? :	No
Disable Submit Button During Assessment? :	No
Section Selection Time? :	0
No of Optional sections to be attempted :	0

Sem1 CT

Section Id :	64065351394

Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	16
Number of Questions to be attempted :	16
Section Marks :	50
Display Number Panel :	Yes
Section Negative Marks :	0
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	640653107912
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 1 Question Id : 640653738116 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 0

Question Label : Multiple Choice Question

THIS IS QUESTION PAPER FOR THE SUBJECT "FOUNDATION LEVEL : SEMESTER I: COMPUTATIONAL THINKING (COMPUTER BASED EXAM)"

ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT?

CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECTS TO BE WRITTEN.

(IF IT IS NOT THE CORRECT SUBJECT, PLS CHECK THE SECTION AT THE TOP FOR THE SUBJECTS REGISTERED BY YOU)

Options :

6406532470040. ✔ YES

6406532470041. ✖ NO

Question Number : 2 Question Id : 640653738117 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 0

Question Label : Multiple Choice Question

Scores

SeqNo	Name	Gender	DateOfBirth	TownCity	Mathematics	Physics	Chemistry	Total
0	Bhuvanesh	M	7 Nov	Erode	68	64	78	210
■ ■ ■								
29	Naveen	M	13 Oct	Vellore	72	66	81	219

Words

SeqNo	Word	PartOfSpeech	LetterCount
0	It	Pronoun	2
■ ■ ■			
64	cane.	Noun	4

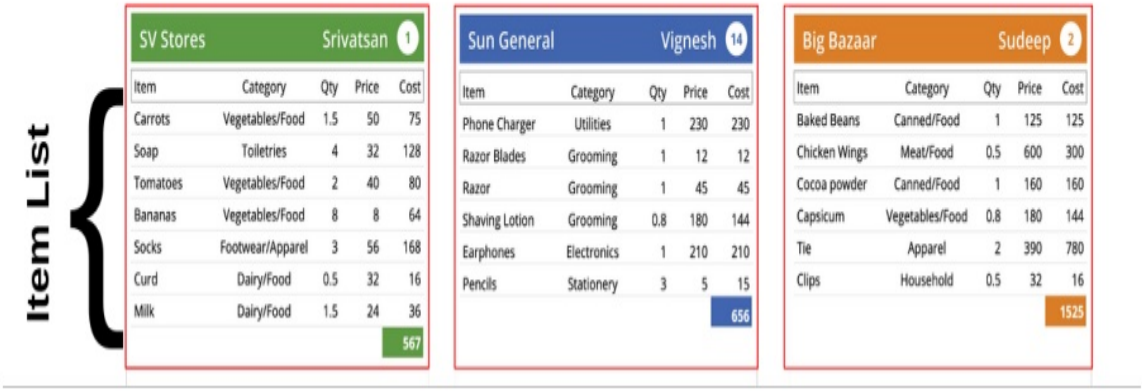
Library

SeqNo	Name	Author	Genre	Language	Pages	Publisher	Year
0	Igniting Minds	Kalam	Nonfiction	English	178	Penguin	2002
■ ■ ■							
29	Malgudi Days	Narayan	Fiction	English	150	Indian Thought	1943

Olympics

SeqNo	Name	Gender	Nationality	Host country	Year	Sport	Medal
0	Karnam Malleswari	F	Indian	Australia	2000	Weightlifting	Bronze
			- - -				
49	Michael Phelps	M	American	China	2008	Swimming	Gold

Three sample cards out of 30 for Shopping Bills dataset



Options :

6406532470042. ✔ Useful Data has been mentioned above.

6406532470043. ✖ This data attachment is just for a reference & not for an evaluation.

Sub-Section Number : 2

Sub-Section Id : 640653107913

Question Shuffling Allowed : Yes

Is Section Default? : null

Question Number : 3 Question Id : 640653738118 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

The following pseudocode is executed using the “Library” dataset. What will **B** represent at the end of execution?

```
A = 0
count = 0
while(Table 1 has more rows){
    Read the first row X in Table 1
    count = count + 1
    if(X.Author != “Kalam” and X.Language != “English”){
        A = A + 1
    }
    Move X to Table 2
}
B = count - A
```

Options :

6406532470044. ✖ Number of books written by author Kalam in English

6406532470045. ✖ Number of books not written by author Kalam in English

6406532470046. ✖ Number of English books written by authors other than Kalam

6406532470047. ✔ Number of books that are written by author Kalam or in English or both

Question Number : 4 Question Id : 640653738119 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

The following pseudocode is executed using the "Scores" dataset. At the end of the execution of below pseudocode, if **count2** represents the number of male students whose Physics marks are less than or equal to Mathematics marks, then select the correct code fragment for **A** and **B**.

```
count1 = 0, count2 = 0
while(Table 1 has more rows){
    Read the first row X in Table 1
    if(....A.... or ....B....){
        count1 = count1 + 1
    }
    else{
        count2 = count2 + 1
    }
    Move X to Table 2
}
```

Options :

6406532470048. ✖ A: `X.Gender == 'F'` B: `X.Mathematics > X.Physics`

6406532470049. ✖ A: `X.Gender == 'M'` B: `X.Mathematics < X.Physics`

6406532470050. ✔ A: `X.Gender == 'F'` B: `X.Mathematics < X.Physics`

6406532470051. ✖ A: `X.Gender == 'M'` B: `X.Mathematics > X.Physics`

Question Number : 5 Question Id : 640653738124 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

The following pseudocode is executed using the “Scores” dataset. What will **A** represent at the end of the execution?

```
A = 0
while(Pile 1 has more cards){
    Read the top card X from Pile 1
    A = A + isInSeq(X)
    Move X to Pile 2
}

Procedure isInSeq(X)
    if(X.Mathematics > X.Physics){
        if(X.Physics < X.Chemistry){
            return(1)
        }
    }
    return(0)
End isInSeq
```

Options :

6406532470068. ✖ Number of students with highest marks in Mathematics among the three subjects

6406532470069. ✖ Number of students with highest marks in Mathematics and lowest marks in Physics

6406532470070. ✖ Number of students with highest marks in Chemistry among the three subjects

6406532470071. ✔ Number of students with lowest marks in Physics among the three subjects

Question Number : 6 Question Id : 640653738126 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

The following pseudocode is executed using the “Words” dataset.

```
count = 0
while(Table 1 has more rows){
    Read the first row X in Table 1
    Move X to Table 2
    i = 1, A = False, B = False
    while(i ≤ X.LetterCount){
        if(ith letter of X.Word is a vowel){
            if(A){
                B = True
            }
            A = True
        }
        else{
            A = False
        }
        i = i + 1
    }
    if(B){
        count = count + 1
    }
}
```

What will **count** represent at the end of execution?

Options :

6406532470076. ✔ Number of words with at least one pair of vowels occurring consecutively

6406532470077. ✖ Number of words with at most two pairs of vowels occurring consecutively

6406532470078. ✖ Number of words with at least two pairs of the same vowel occurring consecutively

6406532470079. ✖ Number of words with at most two pairs of the same vowel occurring consecutively

Sub-Section Number :	3
Sub-Section Id :	640653107914
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 7 Question Id : 640653738120 Question Type : MCQ Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4

Question Label : Multiple Choice Question

The following pseudocode is executed using the "Words" table. At the end of the execution, **count** stores the number of pairs of nouns such that both nouns have either the same letter count or both end with a full stop. Choose the correct code fragment to complete the pseudocode.

```
count = 0
while(Table 1 has more rows){
    Read the first row X in Table 1
    Move X to Table 2
    if(X.PartOfSpeech == "Noun"){
        while(Table 1 has more rows){
            Read the first row Y in Table 1
            Move Y to Table 3
            if(***Statement 1***){
                if(***Statement 2***){
                    count = count + 1
                }
                else{
                    if(***Statement 3***){
                        count = count + 1
                    }
                }
            }
        }
        Move all rows from Table 3 to Table 1
    }
}
```

Options :

6406532470052. ✔ Statement 1: **X**.PartOfSpeech == **Y**.PartOfSpeech
Statement 2: **X**.LetterCount == **Y**.LetterCount
Statement 3: **X**.Word and **Y**.Word end with a full stop

6406532470053. ✖ Statement 1: **X**.Word and **Y**.Word end with a full stop
Statement 2: **X**.PartOfSpeech == **Y**.PartOfSpeech
Statement 3: **X**.LetterCount == **Y**.LetterCount

6406532470054. ✖ Statement 1: **X**.LetterCount == **Y**.LetterCount

Statement 2: **X**.Word and **Y**.Word end with a full stop

Statement 3: **X**.PartOfSpeech == **Y**.PartOfSpeech

6406532470055. ✖ Statement 1: **X**.LetterCount == **Y**.LetterCount

Statement 2: **X**.PartOfSpeech == **Y**.PartOfSpeech

Statement 3: **X**.Word and **Y**.Word end with a full stop

Question Number : 8 Question Id : 640653738121 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4

Question Label : Multiple Choice Question

The following pseudocode is executed using the “Scores” dataset. At the end of the execution,variable **Count** captures the number of students whose total marks are more than the class average (of total marks) but have scored below the subject average in at least one subject. Assume that the variable **AvgT** holds the value of the average total marks. Similarly, the variables **AvgP**,**AvgC** and **AvgM** hold the value of the average marks of Physics, Chemistry and Mathematics respectively. Choose the correct code fragment to complete the pseudocode.

```
Count = 0
while(Table 1 has more rows){
    Read the first row X from Table 1
    A = False, B = False, C = False, D = False
    if(X.Total > AvgT){
        A = True
    }
    if(X.Mathematics < AvgM){
        B = True
    }
    if(X.Physics < AvgP){
        C = True
    }
    if(X.Chemistry < AvgC){
        D = True
    }
    **********************
    * Fill the code *
    **********************
    Move X to Table 2
}
```

Options :

6406532470056. ✔

```
if(A and (B or C or D)){
    Count = Count + 1
}
```

6406532470057. ✖

```
if(A or (B and C and D)){
    Count = Count + 1
}
```

6406532470058. ✖

```
if(A and not(B and C and D)){
    Count = Count + 1
}
```

6406532470059. ✖

```
if(A or not(B or C or D)){
    Count = Count + 1
}
```

Question Number : 9 Question Id : 640653738122 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4

Question Label : Multiple Choice Question

The following pseudocode is executed using the “Words” dataset. What will **A** represent at the end of the execution?

```
SumT = 0, CountT = 0, B = 0
while(Table 1 has more rows){
    Read the first row X in Table 1
    CountT = CountT + 1
    SumT = SumT + X.LetterCount
    Move X to Table 2
}
B = SumT / CountT

SumS = 0, CountS = 0, A = 0, C = 0
while(Table 2 has more rows){
    Read the first row X in Table 2
    CountS = CountS + 1
    SumS = SumS + X.LetterCount
    if(X.Word ends with a full stop){
        C = SumS / CountS
        if(C < B){
            A = A + 1
        }
        SumS = 0, CountS = 0
    }
    Move X to Table 1
}
```

Options :

6406532470060. ✖ Number of sentences with average letter count more than the average letter count of dataset

6406532470061. ✔ Number of sentences with average letter count less than the average letter count of dataset

6406532470062. ✖ Number of words with average letter count more than the average letter count per word of dataset

6406532470063. ✖ Number of words with average letter count less than the average letter count per word of dataset

Question Number : 10 Question Id : 640653738123 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4

Question Label : Multiple Choice Question

Procedure **miniSum** accepts three numbers as parameters and returns the sum of two smallest numbers.

Choose the correct code fragment to complete the procedure.

```
Procedure miniSum(A, B, C)
    Sum = 0
    if(A > C and A > B){
        Sum = B + C
    }
    **********************
    * Fill the code *
    **********************
    return(Sum)
End miniSum
```

Options :

6406532470064. ✔

```
else{
    if(B > C and B > A){
        Sum = A + C
    }
    else{
        Sum = A + B
    }
}
```

6406532470065. ✖

```
if(B > C and B > A){
    Sum = A + C
}
else{
    Sum = A + B
}
```

```
else{
    Sum = A + B
}
if(C > B and B > A){
    Sum = A + C
}

```

6406532470066. ✖

```
else{
    Sum = A + B
}
if(C > B and B > A){
    Sum = B + C
}
```

6406532470067. ✖

Question Number : 11 Question Id : 640653738125 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4

Question Label : Multiple Choice Question

The following pseudocode is executed using the “Olympics” dataset. Procedure **doSomething** accepts a table of rows which contains rows of the same player. Assume that the player has won at least two medals and only one medal in any year. What will (**B - A**) represent at the end of the execution?

```
Procedure doSomething(Table T1)
    A = 2030, B = 2030
    while(Table T1 has more rows){
        Read the first row Z from Table T1
        if(Z.Year < A){
            B = A
            A = Z.Year
        }
        if(Z.Year > A and Z.Year < B){
            B = Z.Year
        }
        Move the row Z to Table T2
    }
    return((B - A))
End doSomething
```

Options :

6406532470072. ✔ Year gap between first and second medal won by a player

6406532470073. ✖ Year gap between first and latest medal won by a player

6406532470074. ✖ Year gap between latest and second latest medal won by a player

6406532470075. ✖ Year gap between first and second latest medal won by a player

Sub-Section Number :	4
Sub-Section Id :	640653107915
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 12 Question Id : 640653738127 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

The given pseudocode is executed using the “Olympics” table. What will **count** represent at the end of the execution? Assume all players have distinct names.

```
count = 0
while(Table 1 has more rows){
    Read the first row X in Table 1
    Move X to Table 2
    while(Table 1 has more rows){
        Read the first row Y in Table 1
        Move Y to Table 3
        if(X.Name != Y.Name){
            if(X.Nationality == Y.Nationality and X.Medal == Y.Medal){
                count = count + 1
            }
        }
    }
    Move all rows from Table 3 to Table 1
}
```

Options :

6406532470080. ✖ The number of pairs of players having the same nationality or the same medal.

6406532470081. ✔ The number of pairs of players having the same nationality and same medal.

6406532470082. ✖ The number of players having the same nationality and same medal.

6406532470083. ✖ The number of players having the different name but of same nationality.

Sub-Section Number :	5
Sub-Section Id :	640653107916
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 13 Question Id : 640653738128 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Max. Selectable Options : 0

Question Label : Multiple Select Question

The given pseudocode is executed using the “Shopping Bills” dataset. **frac** stores the ratio of the number of customers who purchased both “Bread” and “Milk” to the number of customers who purchased “Milk”. Choose the correct code fragment(s) of procedure **hasItem** to complete the pseudocode. (Assume there is at least one customer who has purchased “Milk”).

```
mCount = 0, bCount = 0
while(Pile 1 has more cards){
    Read the top card X in Pile 1
    if(hasItem(X, “Milk”)){
        mCount = mCount + 1
        if(hasItem(X, “Bread”)){
            bCount = bCount + 1
        }
    }
    Move X to Pile 2.
}
frac = bCount / mCount

Procedure hasItem (Y, A)
    ******************
    * Fill the code *
    ******************
End hasItem
```

Options :

```
C = False
while(Card Y has more items){
    Read an item Z from ItemList of card Y
    if(Z.Item == A){
        C = True
    }
    else{
        C = False
    }
    Remove Z from ItemList of Y
}
return(C)
```

6406532470084. ✖

```
C = False
while(Card Y has more items){
    Read an item Z from ItemList of card Y
    if(Z.Item == A){
        C = True
    }
    Remove Z from ItemList of Y
}
return(C)
```

6406532470085. ✔

```
C = True
while(Card Y has more items){
    Read an item Z from ItemList of card Y
    if(Z.Item == A){
        C = True
    }
    Remove Z from ItemList of Y
}
return(C)
```

6406532470086. ✖

```
C = True
while(Card Y has more items){
    Read an item Z from ItemList of card Y
    if(Z.Item == A){
        C = False
    }
    Remove Z from ItemList of Y
}
return not(C)
```

6406532470087. ✔

Question Number : 14 Question Id : 640653738129 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Max. Selectable Options : 0

Question Label : Multiple Select Question

The given information represents a "Words" dataset and it may have some mistakes with respect to the sanity of data. Identify all rows with such mistakes.

Row no.	Field	Value
Row 1	Card number	"xyz"
Row 2	Word	1
Row 3	Part of Speech	"Noun"
Row 4	Letter Count	- 5

Options :

6406532470088. ✔ Row 1: Incorrect data type of card number

6406532470089. ✔ Row 2: Incorrect data type of Word

6406532470090. ✖ Row 3: Incorrect data type of Part of Speech

6406532470091. ✖ Row 3: Invalid value of Part of Speech

6406532470092. ✖ Row 4: Incorrect data type of Letter Count

6406532470093. ✔ Row 4: Invalid value of Letter Count

Question Number : 15 Question Id : 640653738130 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4 Max. Selectable Options : 0

Question Label : Multiple Select Question

The following pseudocode is executed using the “Scores” dataset. At the end of the execution, **count** captures the number of pairs of students having either same gender or from the same city but not both. But the pseudocode may have mistakes. Identify all such mistakes (if any). Assume that all statements not listed in the options below are free of errors.

```
1  count = 0
2  while(Table 1 has more rows){
3      Read the first row X in Table 1
4      Move X to Table 2
5      while(Table 1 has more rows){
6          Read the first row Y in Table 1
7          Move Y to Table 3
8          count = count + findPair(X, Y)
9      }
10     Move all rows from Table 3 to Table 1
11 }
12 Procedure findPair(X, Y)
13     A = False, B = True
14     if(X.Gender == Y.Gender){
15         A = True
16     }
17     if(X.CityTown == Y.CityTown){
18         B = True
19     }
20     if((A and not B) and (not A and B)){
21         return(1)
22     }
23     return(0)
24 End findPair
```

Options :

6406532470094. ✔ Line 13: Incorrect initialisation of **B**

6406532470095. ✖ Line 18: Incorrect update of **B**

6406532470096. ✔ Line 20: Incorrect condition

6406532470097. ✖ Line 21: It should **return(0)**

Sub-Section Number :	6
Sub-Section Id :	640653107917
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 16 Question Id : 640653738131 Question Type : SA Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Short Answer Question

The following pseudocode is executed using a dataset similar to the "Words" dataset, based on the following paragraph.

"Surrounded by nature, Susan often takes a stroll, savoring the soothing sounds of chirping birds.Such moments underline the significance of embracing simple joys in life. Rustlings in the trees suggest squirrels beginning their day, searching for sustenance. Surely, the beauty of a sunrise holds unparalleled magic."

```
count = 0, flag = True
while(Table 1 has more rows){
    Read the first row X in Table 1
    Move X to Table 2
    if(flag){
        if(1st letter of X.Word == 's'){
            if(2nd letter of X.Word == 'u'){
                count = count + 1
            }
        }
    }
    flag = False
    if(X.word ends with full stop){
        flag = True
    }
}
```

What would be the value of **count** at the end of the execution of the above pseudocode? Assume that upper case and lower case are ignored during comparison of letters.

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

3

Sem1 English1

Section Id :	64065351395
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	24
Number of Questions to be attempted :	24
Section Marks :	50
Display Number Panel :	Yes
Section Negative Marks :	0
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	640653107918
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 17 Question Id : 640653738132 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 0

Question Label : Multiple Choice Question

THIS IS QUESTION PAPER FOR THE SUBJECT "FOUNDATION LEVEL : SEMESTER I: ENGLISH I (COMPUTER BASED EXAM)"

ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT?

CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECTS TO BE WRITTEN.