Indian Institute of Technology, Madras - Centre for Continuing Education

**Notations :**

1.Options shown in green color and with icon are correct.

2.Options shown in red color and with icon are incorrect.

**Question Paper Name :**IIT M FOUNDATION DIPLOMA ENDTERM QPB1 07 Aug 2022

**Subject Name :**2022 Aug: IIT M FOUNDATION DIPLOMA ENDTERM QPB1

**Creation Date :** 2022-08-03 15:35:26 **Duration :** 90

**Total Marks :** 991

**Display Marks:** Yes

**Share Answer Key With Delivery Engine :** Yes

**Actual Answer Key :** Yes

**Calculator :** Scientific

**Magnifying Glass Required? :** No

**Ruler Required? :** No

**Eraser Required? :** No

**Scratch Pad Required? :** No

**Rough Sketch/Notepad Required? :** No

**Protractor Required? :** No

**Show Watermark on Console? :** Yes

**Highlighter :** No

**Auto Save on Console?** Yes

**Change Font Color :** No

**Change Background Color :** No **Change Theme :** No **Help Button :** No **Show Reports :** No **Show Progress Bar :** No

**Group I**

**Group Number :** 1 **Group Id :** 6406538839 **Group Maximum Duration :** 0 **Group Minimum Duration :** 90 **Show Attended Group? :** No **Edit Attended Group? :** No **Break time :** 0 **Group Marks :** 991 **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

**Sem1 CT**

**Section Id :** 64065322405

**Section Number :** 1

**Section type :** Online

**Mandatory or Optional :** Mandatory

**Number of Questions :** 21

**Number of Questions to be attempted :** 21

**Section Marks :** 100

**Display Number Panel :** Yes

**Group All Questions :** No

**Enable Mark as Answered Mark for Review and**

**Clear Response :**Yes

**Maximum Instruction Time :** 0

**Sub-Section Number :** 1

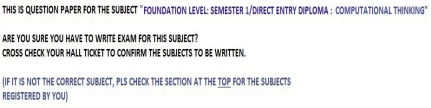
**Sub-Section Id :** 64065352273

**Question Shuffling Allowed :** No

**Question Number : 1 Question Id : 640653359121 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

**Options :**

6406531189956. Yes

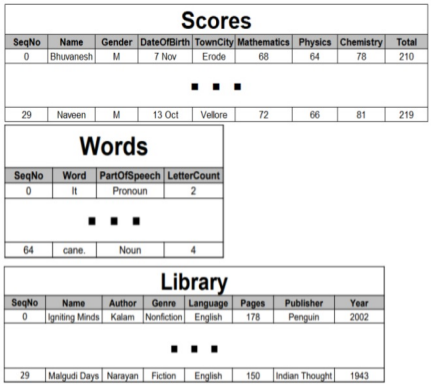
6406531189957. No

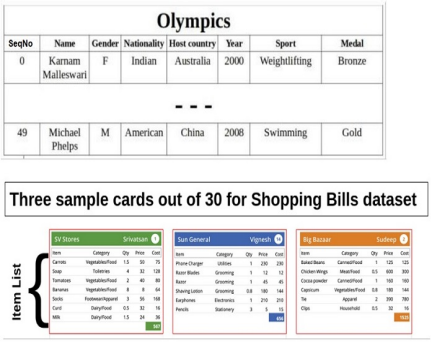
**Question Number : 2 Question Id : 640653359122 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction**

**Time : 0**

**Correct Marks : 0**

Question Label : Multiple Choice Question



**Options :**

6406531189958. Useful Data has been mentioned above.

6406531189959. This data attachment is just for a reference & not for an evaluation. **Sub-Section Number :** 2

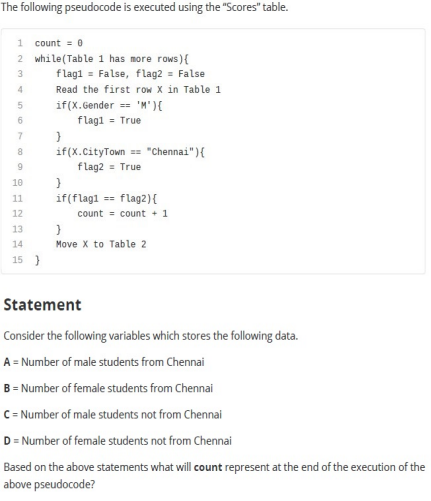
**Sub-Section Id :** 64065352274

**Question Shuffling Allowed :** Yes

**Question Number : 3 Question Id : 640653359123 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

**Options :**

6406531189960. **A**

6406531189961. **A + B**

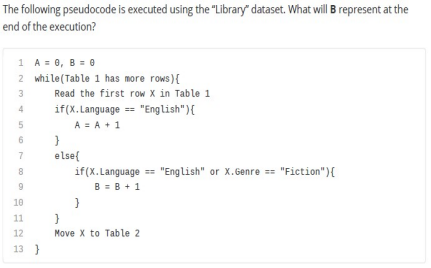
6406531189962. **A + C**

6406531189963. **A + D**

**Question Number : 4 Question Id : 640653359124 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

**Options :**

6406531189964. Number of fictional books

6406531189965. Number of fictional books written in other than English 6406531189966. Number of books written in English + Number of fictional books 6406531189967. Number of books written in English + Number of fictional books written in other than English

6406531189968. Number of fictional books + Number of non-fictional books written in English **Sub-Section Number :** 3

**Sub-Section Id :** 64065352275

**Question Shuffling Allowed :** Yes

**Question Number : 5 Question Id : 640653359125 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

**Options :**

6406531189969.  

6406531189970.  

6406531189971. 



6406531189972.  

**Question Number : 6 Question Id : 640653359129 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

**Options :**

6406531189981. List of cities that have more than one student

6406531189982. List of cities that have at least one boy and at least one girl 6406531189983. List of cities that have either boys or girls, but not both 6406531189984. List of cities that have exactly one boy or exactly one girl

**Question Number : 7 Question Id : 640653359131 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

**Options :**

6406531189989. The difference between highest and lowest Mathematics marks of the city **i** 6406531189990. The difference between overall highest and lowest Mathematics marks of the dataset

6406531189991. The difference between highest and second highset Mathematics marks of the city **i**

6406531189992. It will be always 0.

**Question Number : 8 Question Id : 640653359139 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

**Options :**

6406531190015. List of words which have maximum number of letters

6406531190016. List of words which have maximum number of distinct letters 6406531190017. List of words which have maximum number of duplicate letters 6406531190018. List of words which have minimum number of letters

**Sub-Section Number :** 4

**Sub-Section Id :** 64065352276

**Question Shuffling Allowed :** Yes

**Question Number : 9 Question Id : 640653359130 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 5**

Question Label : Multiple Choice Question

**Options :**

6406531189985. **N** = Maximum number of medals won by a player

**count** = Number of distinct players

6406531189986. **N** = Maximum number of medals won by a player

**count** = Total number of medals

6406531189987. **N** = Maximum number of players who won the same medal **count** = Total number of medals

6406531189988. **N** = Maximum number of players who won the same medal **count** = Number of distinct players

**Question Number : 10 Question Id : 640653359138 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 5**

Question Label : Multiple Choice Question

**Options :**

6406531190011. Number of words in which vowels occur consecutively

6406531190012. Number of words in which no two vowels occur consecutively 6406531190013. Number of words in which vowels and consonants occur consecutivley 6406531190014. Number of words in which no two vowels and no two consonants occur consecutivley

**Question Number : 11 Question Id : 640653359142 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 5**

Question Label : Multiple Choice Question

**Options :**

6406531190025. L = [0, 1, 2, 3, 4, 5]

6406531190026. L = [0, 1, 3, 2, 4, 5]

6406531190027. L = [0, 1, 3, 4, 5, 2]

6406531190028. L = [0, 1, 3, 2, 5, 4]

**Question Number : 12 Question Id : 640653359143 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 5**

Question Label : Multiple Choice Question

**Options :**

6406531190029. ['t', 't, 'i', 'n']

6406531190030. ['t', 'i', 'n']

6406531190031. ['t', 'i', 'i', 'n']

6406531190032. ['t', 'i', 'n', 'i']

**Question Number : 13 Question Id : 640653359144 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 5**

Question Label : Multiple Choice Question

**Options :**

6406531190033. List of shops visited by customer **c** but not by **r**

6406531190034. List of shops visited by customers either **r** or **c**, but not both 6406531190035. List of shops visited by both customers **r** and **c**

6406531190036. List of shops visited by customer **r** but not by **c**

**Sub-Section Number :** 5

**Sub-Section Id :** 64065352277

**Question Shuffling Allowed :** Yes

**Question Number : 14 Question Id : 640653359140 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction**

**Time : 0**

**Correct Marks : 5**

Question Label : Multiple Select Question

**Options :**

6406531190019. **Line 1**: Incorrect initialization of **A**

6406531190020. **Line 5**: Incorrect conditional statement 6406531190021. **Line 16**: Incorrect updating of **L**

6406531190022. **Line 21**: Incorrect conditional statement 6406531190023. **Line 22**: Incorrect updation of dictionary **D Sub-Section Number :** 6

**Sub-Section Id :** 64065352278

**Question Shuffling Allowed :** Yes

**Question Number : 15 Question Id : 640653359141 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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

0

**Sub-Section Number :** 7

**Sub-Section Id :** 64065352279

**Question Shuffling Allowed :** No

**Question Id : 640653359145 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A**

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

**Question Numbers : (16 to 17)**

Question Label : Comprehension

**Sub questions**

**Question Number : 16 Question Id : 640653359146 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

What will **evaluate(L1, L2)** return?

**Options :**

6406531190037. [0, 0, 12, 15]

6406531190038. [2, 2, 12, 15]

6406531190039. [0, 0 , 15, 12]

6406531190040. [2, 2, 7, 8]

**Question Number : 17 Question Id : 640653359147 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Short Answer Question

How many times will the procedure **evaluate** be called, excluding the main call?

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

4

**Sub-Section Number :** 8

**Sub-Section Id :** 64065352280

**Question Shuffling Allowed :** No

**Question Id : 640653359126 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (18 to 19)**

Question Label : Comprehension



Based on the above data, answer the given subquestions.

**Sub questions**

**Question Number : 18 Question Id : 640653359127 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

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

**Options :**

6406531189973. Number of students whose Physics marks are at most 90 6406531189974. Number of female students whose Physics marks are at least 90 6406531189975. Number of female students whose Physics marks are at most 90 6406531189976. Number of male students whose Physics marks are at most 90

**Question Number : 19 Question Id : 640653359128 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

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

**Options :**

6406531189977. Number of students whose Physics marks are at most 90 6406531189978. Number of students whose Physics marks are at least 90 6406531189979. Number of female students whose Physics marks are at least 90 6406531189980. Number of female students whose Physics marks are at most 90 **Sub-Section Number :** 9

**Sub-Section Id :** 64065352281

**Question Shuffling Allowed :** No

**Question Id : 640653359132 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (20 to 21)**

Question Label : Comprehension



Based on the above data, answer the given subquestions.

**Sub questions**

**Question Number : 20 Question Id : 640653359133 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

What will **itemD[i][j]** represent?

**Options :**

6406531189993. Revenue generated by item **j** for shop **i**

6406531189994. Revenue generated by item **i** for shop **j**

6406531189995. Cost of item **i** in shop **j**

6406531189996. Cost of item **j** in shop **i**

**Question Number : 21 Question Id : 640653359134 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

What will **costD[i]** represent at the end of the execution?

**Options :**

6406531189997. List of item(s) which generated highest revenue for shop **i** 6406531189998. List of item(s) which generated lowest revenue for shop **i** 6406531189999. List of cost of most sold item(s) in shop **i**

6406531190000. List of cost of least sold item(s) in shop **i**

**Question Id : 640653359148 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (22 to 23)**

Question Label : Comprehension



Based on the above data, answer the given subquestions

**Sub questions**

**Question Number : 22 Question Id : 640653359149 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4**

Question Label : Multiple Select Question

Choose the correct option(s) with respect to the graph G.It is a Multiple Select Question. **Options :**

6406531190042. The in-degree and out-degree for each node in G is the same. 6406531190043. G is always acyclic.

6406531190044. If **B[i][j]** = 1 then **B[j][i]** = 1, for any **i, j**

6406531190045. If **B[i][j]** = 1 then **B[j][i]** = 0, for any **i, j**

6406531190046. If **B[i][j]** = 0 then **B[j][i]** = 1, for any **i, j**

**Question Number : 23 Question Id : 640653359150 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



**Options :**

6406531190047. If student **i** has scored greater total marks than at least one student 6406531190048. If student **i** has scored less total marks than at least one student 6406531190049. If student **i** has scored lowest total marks among all students 6406531190050. If student **i** has scored highest total marks among all students

**Question Id : 640653359151 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (24 to 25)**

Question Label : Comprehension



**Sub questions**

**Question Number : 24 Question Id : 640653359152 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4**

Question Label : Short Answer Question



**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

0

**Question Number : 25 Question Id : 640653359153 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4**

Question Label : Short Answer Question



**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

1

**Sub-Section Number :** 10

**Sub-Section Id :** 64065352282

**Question Shuffling Allowed :** No

**Question Id : 640653359135 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (26 to 27)**

Question Label : Comprehension



Based on the above data, answer the given subquestions.

**Sub questions**

**Question Number : 26 Question Id : 640653359136 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 5**

Question Label : Multiple Select Question



**Options :**

6406531190001. The maximum value of **M[i][j]** will be 2.

6406531190002. If **M[i][j]** = 1, then both the bills have same customer names 6406531190003. If **M[i][j]** = 1, then both the bills have different customer names 6406531190004. If **M[i][j]** = 2, then both the bills have same customer names 6406531190005. **M[i][j]** can be more than 2 if both the bills have same customer names

**Question Number : 27 Question Id : 640653359137 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 5**

Question Label : Multiple Select Question

Choose the correct statement(s) based on given pseudocode. It is a Multiple Select Question

**Options :**

6406531190006.  

6406531190007.  

6406531190008.  

6406531190009.  

6406531190010.  

**Sem1 Maths1**

**Section Id :** 64065322406

**Section Number :** 2

**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

**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 :** 64065352283

**Question Shuffling Allowed :** No

**Question Number : 28 Question Id : 640653359154 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

**Options :**

6406531190053. Yes

6406531190054. No

**Sub-Section Number :** 2

**Sub-Section Id :** 64065352284

**Question Shuffling Allowed :** Yes

**Question Number : 29 Question Id : 640653359156 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Multiple Choice Question

An IT convention is being organized in a fancy hotel. Many parallel sessions are planned. Each session has to take place in a separate hall. Sessions that do not overlap can share a hall. The organizer of the convention would like to know the minimum number of halls to reserve at the hotel to fit in all the sessions without any clashes.

The organizer decides to model this as a graph where the nodes are the sessions and edges represent pairs of sessions with overlapping timings. In this setting, the graph theoretic question to be answered is:

**Options :**

6406531190056. Find a spanning tree with maximum number of edges.

6406531190057. Find a maximum size independent set.

6406531190058. Find a minimum size vertex cover.

6406531190059. Find a minimal colouring.

**Sub-Section Number :** 3

**Sub-Section Id :** 64065352285

**Question Shuffling Allowed :** Yes

**Question Number : 30 Question Id : 640653359161 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 3**

Question Label : Multiple Select Question

Choose the correct options from the following.

**Options :**

6406531190066.  6406531190067. 

6406531190068.  

6406531190069.  

**Question Number : 31 Question Id : 640653359168 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 3**

Question Label : Multiple Select Question

**Options :**

6406531190075. *x* − y − 4 = 0

6406531190076. *x + y* + 4 = 0

6406531190077. *x* − y + 4 = 0

6406531190078. *x + y* − 4 = 0

**Sub-Section Number :** 4

**Sub-Section Id :** 64065352286

**Question Shuffling Allowed :** Yes

**Question Number : 32 Question Id : 640653359170 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4**

Question Label : Multiple Select Question

**Options :**

6406531190080.  

6406531190081.  

6406531190082.  

6406531190083. 



6406531190084.  

6406531190085.  

**Sub-Section Number :** 5

**Sub-Section Id :** 64065352287

**Question Shuffling Allowed :** Yes

**Question Number : 33 Question Id : 640653359175 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Multiple Select Question



**Options :**

6406531190092.  

6406531190093.  

6406531190094.  

6406531190095.  

**Sub-Section Number :** 6

**Sub-Section Id :** 64065352288

**Question Shuffling Allowed :** Yes

**Question Number : 34 Question Id : 640653359162 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 2**

Question Label : Short Answer Question



**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

4

**Question Number : 35 Question Id : 640653359171 Question Type : SA Calculator : None**

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

**Correct Marks : 2**

Question Label : Short Answer Question

Rohit and his friend are playing a number-guessing game. The game consists of one player choosing a number and performing the following operations on it :

• Add 4 to the number.

• Square the resulting number.

• Multiply the result by 3.

• Divide the result by 2.

and then announcing the finally obtained number. The other player wins if they correctly guess the original number.

Rohit’s friend chooses a number and announces the result of the above operations as 600. Determine the original number and help Rohit win the game.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

16

**Sub-Section Number :** 7

**Sub-Section Id :** 64065352289

**Question Shuffling Allowed :** Yes

**Question Number : 36 Question Id : 640653359155 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

Suppose a tree has two vertices of degree 4, two vertices of degree 3, and three vertices of degree

2. If all the other vertices have degree 1, then how many vertices are there in the graph? **Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

15

**Question Number : 37 Question Id : 640653359160 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

What is the weight of a minimum cost spanning tree of the graph given below? 

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

13

**Question Number : 38 Question Id : 640653359167 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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

49

**Sub-Section Number :** 8

**Sub-Section Id :** 64065352290

**Question Shuffling Allowed :** Yes

**Question Number : 39 Question Id : 640653359163 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 4**

Question Label : Short Answer Question

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

6

**Question Number : 40 Question Id : 640653359169 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 4**

Question Label : Short Answer Question

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

4

**Sub-Section Number :** 9

**Sub-Section Id :** 64065352291

**Question Shuffling Allowed :** No

**Question Id : 640653359157 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (41 to 42)**

Question Label : Comprehension

Consider the following directed graph *G*.



Suppose DFS of this graph is performed from node A, such that when we visit a vertex, we explore its unvisited neighbors in alphabetical order.

Based on the above data, answer the given subquestions.

**Sub questions**

**Question Number : 41 Question Id : 640653359158 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

Find the number of cross edges in the DFS tree.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

3

**Question Number : 42 Question Id : 640653359159 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 3**

Question Label : Multiple Select Question

Which of the following statements are correct?

**Options :**

6406531190061. The number of backward edges in the DFS tree is one. 6406531190062. The graph *G* is an acyclic graph.

6406531190063. The graph *G* is a planar graph.

6406531190064. The graph *G* has no possible topological orderings.

**Sub-Section Number :** 10

**Sub-Section Id :** 64065352292

**Question Shuffling Allowed :** No

**Question Id : 640653359164 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (43 to 44)**

Question Label : Comprehension

Find the values of given definite integrals in the given subquestions.

**Sub questions**

**Question Number : 43 Question Id : 640653359165 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Short Answer Question



**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

0

**Question Number : 44 Question Id : 640653359166 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



**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

2

**Sub-Section Number :** 11

**Sub-Section Id :** 64065352293

**Question Shuffling Allowed :** No

**Question Id : 640653359172 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (45 to 46)**

Question Label : Comprehension

Suppose the relation *R* ={(Fish, Cat), (Dragon, Dragon), (Lion, Cat), (Fish, Lion)} is defined on the set *S* ={Fish, Lion, Dragon, Cat}.

Based on the above data, answer the given subquestions.

**Sub questions**

**Question Number : 45 Question Id : 640653359173 Question Type : MSQ Is Question**

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

**Correct Marks : 2**

Question Label : Multiple Select Question

The relation *R* on the set *S* is(are)

**Options :**

6406531190087. Reflexive

6406531190088. Symmetric

6406531190089. Transitive

6406531190090. Identity

**Question Number : 46 Question Id : 640653359174 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Short Answer Question

What is the minimum number of elements of the Cartesian product *S × S* that need to be added to *R* such that the relation becomes symmetric?

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

3

**Sem2 Intro to Python**

**Section Id :** 64065322407

**Section Number :** 3

**Section type :** Online

**Mandatory or Optional :** Mandatory

**Number of Questions :** 17

**Number of Questions to be attempted :** 17

**Section Marks :** 50

**Display Number Panel :** Yes

**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 :** 64065352294

**Question Shuffling Allowed :** No

**Question Number : 47 Question Id : 640653359176 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

**Options :**

6406531190096. Yes

6406531190097. No

**Question Number : 48 Question Id : 640653359177 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

**Options :**

6406531190098. Useful Data has been mentioned above.

6406531190099. This data attachment is just for a reference & not for an evaluation. **Sub-Section Number :** 2

**Sub-Section Id :** 64065352295 **Question Shuffling Allowed :** Yes

**Question Number : 49 Question Id : 640653359191 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Multiple Choice Question

**Options :**

6406531190130. a

6406531190131. k

6406531190132. n

6406531190133. f

**Question Number : 50 Question Id : 640653359194 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Multiple Choice Question

**Options :**

6406531190139.  

6406531190140.  

6406531190141.  

6406531190142.  

**Sub-Section Number :** 3

**Sub-Section Id :** 64065352296 **Question Shuffling Allowed :** Yes

**Question Number : 51 Question Id : 640653359183 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



**Options :**

6406531190110.  

6406531190111.  

6406531190112.  

6406531190113.  

6406531190114.  

**Question Number : 52 Question Id : 640653359188 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

**Options :**

6406531190121. Only code-1 is a correct implementation.

6406531190122. Only code-2 is a correct implementation.

6406531190123. Both code-1 and code-2 are correct implementations.

6406531190124. Both code-1 and code-2 are **not** correct implementations.

**Question Number : 53 Question Id : 640653359189 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

**Options :**

6406531190125.  

6406531190126.  

6406531190127.  

6406531190128.  

**Question Number : 54 Question Id : 640653359192 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

**Options :**

6406531190134.  

6406531190135.  

6406531190136.  

6406531190137.  

**Question Number : 55 Question Id : 640653359195 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



**Options :**

6406531190143.  

6406531190144.  

6406531190145.  

6406531190146.  

**Question Number : 56 Question Id : 640653359197 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

**Options :**

6406531190151.  

6406531190152.  

6406531190153.  

6406531190154.  

**Sub-Section Number :** 4

**Sub-Section Id :** 64065352297 **Question Shuffling Allowed :** Yes

**Question Number : 57 Question Id : 640653359196 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Multiple Select Question



**Options :**

6406531190147. Code-1 will throw an error in line-2

6406531190148. Code-2 will throw an error in line-4

6406531190149. Code-3 will throw an error in line-3

6406531190150. Code-3 will run without any error

**Sub-Section Number :** 5

**Sub-Section Id :** 64065352298

**Question Shuffling Allowed :** Yes

**Question Number : 58 Question Id : 640653359178 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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

5

**Question Number : 59 Question Id : 640653359184 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



**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

10

**Question Number : 60 Question Id : 640653359190 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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

3

**Question Number : 61 Question Id : 640653359193 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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

4321

**Sub-Section Number :** 6

**Sub-Section Id :** 64065352299

**Question Shuffling Allowed :** No

**Question Id : 640653359179 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (62 to 64)**

Question Label : Comprehension

**Sub questions**

**Question Number : 62 Question Id : 640653359180 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



**Options :**

6406531190101.  6406531190102.  

6406531190103.  

6406531190104.  

**Question Number : 63 Question Id : 640653359181 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 2**

Question Label : Short Answer Question



**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

3

**Question Number : 64 Question Id : 640653359182 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



**Options :**

6406531190106.  6406531190107.  6406531190108.  6406531190109.  **Sub-Section Number :** 7

**Sub-Section Id :** 64065352300

**Question Shuffling Allowed :** No

**Question Id : 640653359185 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (65 to 66)**

Question Label : Comprehension



Based on the above data, answer the given subquestions.

**Sub questions**

**Question Number : 65 Question Id : 640653359186 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



**Options :**

6406531190116.  

6406531190117.  

6406531190118.  

6406531190119.  

**Question Number : 66 Question Id : 640653359187 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

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

3

**Sem2 Maths2**

**Section Id :** 64065322408 **Section Number :** 4 **Section type :** Online **Mandatory or Optional :** Mandatory **Number of Questions :** 15 **Number of Questions to be attempted :** 15 **Section Marks :** 50 **Display Number Panel :** Yes **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 :** 64065352301

**Question Shuffling Allowed :** No

**Question Number : 67 Question Id : 640653359198 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

**Options :**

6406531190155. Yes

6406531190156. No

**Sub-Section Number :** 2

**Sub-Section Id :** 64065352302

**Question Shuffling Allowed :** No

**Question Id : 640653359199 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (68 to 69)**

Question Label : Comprehension



**Sub questions**

**Question Number : 68 Question Id : 640653359200 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1**

Question Label : Short Answer Question

Find the number of critical points of the function *f(a, b).*

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

1

**Question Number : 69 Question Id : 640653359201 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1**

Question Label : Multiple Select Question

Which of the following options is/are true?

**Options :**

6406531190158.  

6406531190159.  

6406531190160. 

6406531190161.  

**Sub-Section Number :** 3

**Sub-Section Id :** 64065352303

**Question Shuffling Allowed :** No

**Question Id : 640653359202 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (70 to 72)**

Question Label : Comprehension

**Sub questions**

**Question Number : 70 Question Id : 640653359203 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Multiple Choice Question



**Options :**

6406531190162. *T* is injective.

6406531190163. *T* is surjective.

6406531190164. *T* is an isomorphism.

6406531190165. *T* is neither injective not surjective.

**Question Number : 71 Question Id : 640653359204 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 2**

Question Label : Short Answer Question



**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

2

**Question Number : 72 Question Id : 640653359205 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 2**

Question Label : Short Answer Question



**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

6

**Sub-Section Number :** 4

**Sub-Section Id :** 64065352304

**Question Shuffling Allowed :** No

**Question Id : 640653359206 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (73 to 75)**

Question Label : Comprehension



Based on the above data, answer the given subquestions.

**Sub questions**

**Question Number : 73 Question Id : 640653359207 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Short Answer Question



**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

1

**Question Number : 74 Question Id : 640653359208 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1**

Question Label : Short Answer Question



**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

2

**Question Number : 75 Question Id : 640653359209 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Multiple Select Question

Choose the correct option(s).

**Options :**

6406531190170.  

6406531190171.  

6406531190172. 

6406531190173.  

**Sub-Section Number :** 5

**Sub-Section Id :** 64065352305

**Question Shuffling Allowed :** Yes

**Question Number : 76 Question Id : 640653359210 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Multiple Select Question

**Options :**

6406531190174. Condition 1 is satisfied.

6406531190175. Condition 2 is satisfied.

6406531190176. Condition 3 is satisfied.

6406531190177. Condition 4 is satisfied.

**Question Number : 77 Question Id : 640653359217 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Multiple Select Question



**Options :**

6406531190183.  

6406531190184.  

6406531190185.  

6406531190186.  

6406531190187.  

6406531190188.  

**Question Number : 78 Question Id : 640653359229 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Multiple Select Question

**Options :**

6406531190210.  

6406531190211.  

6406531190212.  

6406531190213.  

**Sub-Section Number :** 6

**Sub-Section Id :** 64065352306

**Question Shuffling Allowed :** Yes

**Question Number : 79 Question Id : 640653359211 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 2**

Question Label : Short Answer Question

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

9

**Sub-Section Number :** 7

**Sub-Section Id :** 64065352307

**Question Shuffling Allowed :** No

**Question Id : 640653359212 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (80 to 83)**

Question Label : Comprehension



**Sub questions**

**Question Number : 80 Question Id : 640653359213 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Short Answer Question

Find the number of local maxima using the Hessian test.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

1

**Question Number : 81 Question Id : 640653359214 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Short Answer Question

Find the number of local minima using the Hessian test.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

1

**Question Number : 82 Question Id : 640653359215 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 2**

Question Label : Short Answer Question

Find the number of saddle points using the Hessian test.

**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

2

**Question Number : 83 Question Id : 640653359216 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1**

Question Label : Short Answer Question

Find the number of points at which the Hessian test is indeterminate. **Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

0

**Question Id : 640653359230 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Question Numbers : (84 to 86)**

Question Label : Comprehension

**Sub questions**

**Question Number : 84 Question Id : 640653359231 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Multiple Choice Question



**Options :**

6406531190214. 

6406531190215.  

6406531190216.  

6406531190217.  

**Question Number : 85 Question Id : 640653359232 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 3**

Question Label : Multiple Select Question

Which of the following statements are true?

**Options :**

6406531190218.  

6406531190219.  

6406531190220.  

6406531190221.  

6406531190222. 



**Question Number : 86 Question Id : 640653359233 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Short Answer Question



**Response Type :** Numeric

**Evaluation Required For SA :** Yes

**Show Word Count :** Yes

**Answers Type :** Equal

**Text Areas :** PlainText

**Possible Answers :**

4

**Sub-Section Number :** 8

**Sub-Section Id :** 64065352308

**Question Shuffling Allowed :** Yes

**Question Number : 87 Question Id : 640653359218 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction**

**Time : 0**

**Correct Marks : 2**

Question Label : Multiple Choice Question



**Options :**

6406531190189.  

6406531190190.  

6406531190191.  

6406531190192.  

**Question Number : 88 Question Id : 640653359219 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 2**

Question Label : Multiple Choice Question

**Options :**

6406531190193.  

6406531190194. 