

6406531955983. ✖ f is differentiable at $x = 3$.

6406531955984. ✖ $f'(7) = 1$.

Sem1 Statistics1

Section Id :	64065339665
Section Number :	4
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	11
Number of Questions to be attempted :	11
Section Marks :	40
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 :	64065383988
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 74 Question Id : 640653586076 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: STATISTICS
FOR DATA SCIENCE 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.

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

Options :

6406531955985. ✓ YES

6406531955986. ✗ NO

Sub-Section Number :	2
Sub-Section Id :	64065383989
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 75 Question Id : 640653586077 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

Out of 8 boys and 5 girls, how many queues of 3 boys and 2 girls can be formed?

Options :

6406531955987. ✗ 560

6406531955988. ✗ 1200

6406531955989. ✓ 67200

6406531955990. ✗ 6720

Question Number : 76 Question Id : 640653586082 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

A locker can be opened by 3 digit number between 000 to 999. A thief want to steal the locker. During the background check about the locker, he found that all the digits of the pass code are unique and one of the digit is 4. What is the probability that the thief will open the locker?

Options :

6406531955998. ✖ $\frac{1}{729}$

6406531955999. ✖ $\frac{1}{243}$

6406531956000. ✖ $\frac{1}{192}$

6406531956001. ✔ $\frac{1}{216}$

Question Number : 77 Question Id : 640653586086 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

An analyst wants to conduct a survey for testing the maintenance of hospitals in a particular district in Madhya Pradesh, for which he selects 15 hospitals randomly from that district. Identify the sample and population.

Options :

6406531956008. ✖ The population is all the hospitals in Madhya Pradesh and the sample is all the

hospitals in the district.

6406531956009. ✖ The population is all the hospitals in Madhya Pradesh and the sample is 15 selected hospitals in Madhya Pradesh.

6406531956010. ✔ The population is all hospitals in the district of Madhya Pradesh and the sample is 15 selected hospitals in the district.

6406531956011. ✖ None of these

Sub-Section Number :	3
Sub-Section Id :	64065383990
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 78 Question Id : 640653586078 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

Ajay speaks truth in 50% cases, while Vijay speaks truth in 90% cases. What is the probability that Ajay and Vijay will contradict in stating the same fact?

Response Type : Numeric
Evaluation Required For SA : Yes
Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

0.5

Question Number : 79 Question Id : 640653586080 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

In how many ways can letters in the word “ADAMANT” be arranged such that no two A’s are adjacent to each other?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

240

Question Number : 80 **Question Id :** 640653586084 **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

In a gaming room, 2 brothers and 4 other boys are playing together. In a particular game, how many ways can all the boys be seated in a circular order so that two brothers are not seated together?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

72

Sub-Section Number :	4
Sub-Section Id :	64065383991
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 81 **Question Id :** 640653586081 **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 sum of three natural numbers (starting from 1) is 9. How many ordered triplets (a,b,c) exist?

(**Note:** $a = b$ or $b = c$, also, $a = b = c$ is allowed. For example, ordered triplet, (4,3,2) and (2,4,3) are different.)

Options :

6406531955994. ✖ 24

6406531955995. ✔ 28

6406531955996. ✖ 22

6406531955997. ✖ 31

Sub-Section Number : 5

Sub-Section Id : 64065383992

Question Shuffling Allowed : Yes

Is Section Default? : null

Question Number : 82 Question Id : 640653586083 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

A logo is to be designed with five horizontal stripes using some or all of the colours Black, Blue, Red, and Green. In how many ways that can be done such that no two adjacent stripes have same colour?

Options :

6406531956002. ✖ 324

6406531956003. ✖ 516

6406531956004. ✓ 528

6406531956005. ✖ 243

Sub-Section Number : 6
Sub-Section Id : 64065383993
Question Shuffling Allowed : Yes
Is Section Default? : null

Question Number : 83 Question Id : 640653586079 Question Type : SA Calculator : None
Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 5

Question Label : Short Answer Question

A blood test indicates the presence of Amyotrophic lateral sclerosis (ALS) 93% of the time when ALS is actually present. The same test indicates the presence of ALS 0.5% of the time when ALS is not actually present. One percent of the population actually has ALS. Calculate the probability that a person actually has ALS given that the test indicates the presence of ALS. (Enter your answer correct to two decimal places)

Response Type : Numeric
Evaluation Required For SA : Yes
Show Word Count : Yes

Answers Type : Range
Text Areas : PlainText

Possible Answers :

0.62 to 0.68

Sub-Section Number : 7
Sub-Section Id : 64065383994
Question Shuffling Allowed : Yes
Is Section Default? : null

Question Number : 84 Question Id : 640653586085 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 dataset consists of three distinct observations, say x , y and z , and the sum of their frequencies is 100. Relative frequencies corresponding to x and z are 35% and 45% respectively. Find the cumulative frequency(in %)of y and z .

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

65

Sem2 English2

Section Id :	64065339666
Section Number :	5
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	23
Number of Questions to be attempted :	23
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 :	64065383995
Question Shuffling Allowed :	No