Day	: Wednesday	**S-2019-5158**	Time : 02.00 PM TO 05.00 PM
Date	: 08/05/2019		Max. Marks: 70

N.B.

1) Attempt any **THREE** questions from Section–I and any **TWO** questions from Section–II.
2) Figures to the right indicate **FULL** marks.
3) Answers to both the sections should be written in SAIME answer book.
4) Use of non-programmable calculator is allowed.
5) Graph paper and statistical tables will be provided if necessary.

SECTION–I

Q.1 Discuss Primary and Secondary data sources with their advantages and limitations. **(14)**

Q.2 What is significance of using Measures of Central Tendency? **(14)**

Q.3 Represent the data given below by : **(14)**
a) Less than Ogive Curve
b) More than Ogive Curve

Marks	0–10	10–20	20–30	30–40	40–50	50–60	60–70
No. of Student	5	13	25	17	15	14	6

Q.4 a) Elaborate Skewness and Kurtosis concept with their types. **(07)**

b) If $P(A) = 0.4$, $P(B) = 0.5$. Find $P(A \cup B)$ for : **(07)**
i) A and B independent event.
ii) A and B mutually exclusive event.

Q.5 Write short note on any **TWO :** **(14)**
a) Sorting and filtering of data
b) Database management system (DBMS)
c) Regression analysis

P.T.O.

SECTION–II

Q.6   Define Binomial distribution. What is the probability of guessing correctly **(14)** at least six of the ten answers in a TRUE- FALSE objective test?

Q.7 **a)** Find the Karl Pearson coefficient of corelation for-   **(07)**

Attendance (In %)	58	85	90	92	95	96	100
Marks obtained (out of 100)	87	45	88	76	69	38	94

    b) Write a brief note on Normal distribution.   **(07)**

Q.8   A cricket selection board has a vacancy for a batsman; help them to take **(14)** correct decision. Data collected for two batsman is as given below :

Match No.	Batsman A Score	Batsman B Score
1	56	35
2	39	39
3	45	46
4	69*	81
5	55	103*

* *Best score*

*   *   *