Examination: M.Sc. Statistics	
ection 1 - Section 1	
Question No.1	4.00 Bookmark □
The standard error of the sampling distribution of median is given by	
$\sqrt{\frac{2}{2}}$	
$\sigma \sqrt{\frac{\pi}{2}}$	
$\sigma \sqrt{\frac{\pi}{2n}}$	
$\sqrt[\circ]{\frac{\sigma\pi}{2n}}$	
Question No.2	4.00
The average travel time to a distant city is c hours by car or b hours by bus. A woman can whether to drive or take the bus, so she tosses a coin. What is her expected travel time? $\frac{c+b}{4}$	Bookmark 🗖 not decide
$ \begin{array}{c} \circ & 2(c+b) \\ \circ & \frac{c+b}{2} \end{array} $	
$ \begin{array}{c} c & 2(c+b) \\ c & \frac{c+b}{2} \\ c & c+b \end{array} \end{array} $	
$\frac{c+b}{2}$	4.00
$c = \frac{c+b}{2}$ $c = c+b$ Question No.3 The determinant of an elementary matrix of the third kind is	4.00 Bookmark □
$\begin{array}{c} c \\ \frac{c+b}{2} \\ c \\ c+b \end{array}$ Question No.3	
$\begin{array}{c} \circ & \frac{c+b}{2} \\ \circ & c+b \end{array}$ Question No.3 The determinant of an elementary matrix of the third kind is $\begin{array}{c} \circ & 0 \\ \circ & -1 \end{array}$	
$\begin{array}{c} c \\ c \\ \hline 2 \\ c \\ c \\ b \end{array}$ $\begin{array}{c} c \\ c \\ b \\ \hline \end{array}$ $\begin{array}{c} \textbf{Question No.3} \\ \hline \textbf{No.4} \\ \hline \textbf{Subscript{Schemestary matrix of the third kind is}} \\ c \\ c \\ c \\ 1 \\ \hline \end{array}$	Bookmark
$\begin{array}{c} c \\ \frac{c+b}{2} \\ c \\ c+b \end{array}$ Question No.3 The determinant of an elementary matrix of the third kind is $\begin{array}{c} c \\ 0 \\ c-1 \\ c \\ 1 \\ c \\ 2 \end{array}$	Bookmark 🗖
$C = \frac{c+b}{2}$ $C = c+b$ Question No.3 The determinant of an elementary matrix of the third kind is $C = 0$ $C = -1$ $C = 1$ $C = 1$ $C = 2$ Question No.4 If P(A) = 0.25 and P(B) = 0.8, which of the following is true?	Bookmark
$C = \frac{c+b}{2}$ $C = c+b$ Question No.3 The determinant of an elementary matrix of the third kind is $C = 0$ $C = -1$ $C = 1$ $C = 2$ Question No.4 If P(A) = 0.25 and P(B) = 0.8, which of the following is true? $C = 0.05 \le P(A \cap B) \le 0.25$	Bookmark 4.00

# **Question No.5** 4.00 Bookmark The range of multiple correlation coefficient R is C [0.5,1] **○** (-∞,∞) C [0,1] C [-1,1] **Question No.6** 4.00 Bookmark The ratio of class frequency to the class width is called C Relative frequency C Conditional frequency C Cumulative frequency C Frequency density **Question No.7** 4.00 Bookmark If X is a continuous random variable and a< b then $\int_{a}^{b} f(x) dx$ is equal to € {F(b) + F(a)}/2 C F(b)-F(a) C F(a)-F(b) O F(b)/F(a) **Question No.8** 4.00 Bookmark If a fair coin is tossed twice, what is the probability of getting at least one head? O 2/3 O 1/4 O 3/4 O 1/2 Question No.9 4.00 Bookmark When three unbiased coins are tossed at a time the chance of getting no heads is O 1/8 O 5/8 O 1/4 O 3/8 **Question No.10** 4.00 Bookmark A nonparametric method in the analysis of variance for one-factor experiments is provided by C Kruskal-Wallis H test C Friedman test Wilcoxon's signed rank test O Mann-Whitney U test



# Question No.16 4.00 Bookmark [] The null hypothesis that the three or more sampling means are all equal is tested using Chi-square test procedure ANOVA procedure normal Z test procedure

O Student's t test procedure

### **Question No.17**

### Bookmark 🖂

4.00

The amount of variation present in a set of time series data can be reduced by using the method of

- C moving averages
- Separate averages
- free-hand
- C least-squares

### **Question No.18**

For a normal distribution, which of the following relations is correct?

$$^{\circ} MD = \frac{4}{5}SD$$
$$^{\circ} SD = \frac{4}{5}MD$$
$$^{\circ} SD = \frac{2}{3}MD$$

$$^{\circ} \quad MD = \frac{2}{3}SD$$

## **Question No.19**

For two attributes A and B,

$$(AB) = \frac{(A)(B)}{N}$$
. This

is the criterion for:

dependencecorrelation

© association

○ independence

Bookmark

4.00

4.00

Bookmark

# **Question No.20** 4.00 Bookmark The number of parameters for bivariate normal density is O 3 05 06 02 **Question No.21** 4.00 Bookmark The effect of a factor is defined to be the change in response produced by a change in the level of the factor. This is frequently called ○ interaction effect O fixed effect ○ random effect C main effect **Question No.22** 4.00 Bookmark The square of a standard normal random variable is distributed as C chi-square with n degrees of freedom ○ chi-square with n/2 degrees of freedom o normal with mean 0 and variance 2 C chi-square with one degree of freedom **Question No.23** 4.00 Bookmark One of the types of sampling involves a researcher determining the appropriate sample sizes for the groups identified as important, and then taking convenience samples from those groups. Identify the type of sampling. O Quota sampling C Multi-stage sampling C Proportional stratified sampling Cluster sampling **Question No.24** 4.00 Bookmark The set consisting of a single vector is linearly dependent if and only if that vector is a O vector of zeros and ones C constant vector C zero vector O unit vector **Question No.25** 4.00 Bookmark The ratio of imports to exports for the years 2015 and 2016 are 1.25 and 1.40 respectively. If the imports in 2015 was Rs. 250 crores and the total exports in the years 2015 and 2016 together was Rs. 500 crores, find the imports in 2016. C 270 crores C 320 crores C 370 crores C 420 crores





A shelf has 6 mathematics books and 4 physics books. The probability that 3 particular mathematics books will be together is <ul> <li>3</li> <li>10</li> <li>6</li> <li>10</li> <li>6</li> <li>10</li> <li>6</li> <li>10</li> <li>6</li> <li>10</li> <li>6</li> <li>10</li> </ul> <ul> <li>6</li> <li>10</li> <li>6</li> <li>10</li> <li>6</li> <li>10</li> <li>6</li> <li>10</li> <li>6</li> <li>81.31</li> <li>10</li> <li>80</li> <li>80</li> <li>10</li> <li>80</li> <li>90</li> <li>80</li> <li>90</li> <li>90</li> <li>90</li> <li>90</li> <li>90</li> <li>90</li> <li>90</li> <li>90</li></ul>	Question No.35	4.00 Bookmark □
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<ul> <li>Parallel</li> <li>Lie at 45<sup>0</sup></li> <li>Perpendicular to each</li> <li>Question No.38</li> <li>Obtain the missing term.</li> <li>300, 296, 287, 271, ? , 210         <ul> <li>246</li> <li>250</li> <li>244</li> </ul> </li> </ul>		
<ul> <li>Lie at 45<sup>0</sup></li> <li>Perpendicular to each</li> <li>Question No.38</li> <li>4.00</li> <li>Bookmark □</li> <li>Obtain the missing term.</li> <li>300, 296, 287, 271, ?, 210         <ul> <li>246</li> <li>250</li> <li>244</li> </ul> </li> </ul>		
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<ul> <li>246</li> <li>250</li> <li>244</li> </ul>	Obtain the missing term.	
<ul> <li>246</li> <li>250</li> <li>244</li> </ul>	300. 296. 287. 271. ? . 210	
<ul> <li>250</li> <li>244</li> </ul>		
o 244		
None of the above		
	O None of the above	

Question No.39	4.00 Bookmark □
For a chi-square distribution with n degrees of freedom, the mean and variance are	
○ n and 2n	
◯ n and n/2	
○ n and n	
☉ n/2 and n	
Question No.40	4.00 Bookmark □
Choose the correct meaning of the italicized idiom.	
Anil got me into trouble by giving a false colour to my statement.	
Colouring the sentence	
Giving a wrong character	
Giving a wrong colour box	
Giving good impression	
Question No.41	4.00
	Bookmark
The standard deviation of the values {3,3,3,3,3,3} is	
0 1/3	
$^{\circ}\sqrt{3}$	
$\circ$ 0	
09	
÷ 5	
Question No.42	4.00
If 'r' denotes the correlation coefficient between X and Y the coefficient of determination is	Bookmark
O 1-r	
○ 1-r ○ 1/r	
○ 1-r ○ 1/r ○ r <sup>2</sup>	
○ 1-r ○ 1/r	
○ 1-r ○ 1/r ○ r <sup>2</sup>	4.00
0 1-r 0 1/r 0 r <sup>2</sup> 0 1-r <sup>2</sup>	4.00 Bookmark □
<ul> <li>1-r</li> <li>1/r</li> <li>r<sup>2</sup></li> <li>1-r<sup>2</sup></li> </ul> Question No.43 Deseasonalized time series data still include	
<ul> <li>1-r</li> <li>1/r</li> <li>r<sup>2</sup></li> <li>1-r<sup>2</sup></li> </ul> Question No.43 Deseasonalized time series data still include <ul> <li>trend and cyclic movements</li> </ul>	
<ul> <li>1-r</li> <li>1/r</li> <li>r<sup>2</sup></li> <li>1-r<sup>2</sup></li> </ul> Question No.43 Deseasonalized time series data still include <ul> <li>trend and cyclic movements</li> <li>trend, cyclic and irregular movements</li> </ul>	
<ul> <li>1-r</li> <li>1/r</li> <li>r<sup>2</sup></li> <li>1-r<sup>2</sup></li> </ul> Question No.43 Deseasonalized time series data still include <ul> <li>trend and cyclic movements</li> <li>trend, cyclic and irregular movements</li> <li>cyclic and irregular movements</li> </ul>	
<ul> <li>1-r</li> <li>1/r</li> <li>r<sup>2</sup></li> <li>1-r<sup>2</sup></li> </ul> Question No.43 Deseasonalized time series data still include <ul> <li>trend and cyclic movements</li> <li>trend, cyclic and irregular movements</li> </ul>	
<ul> <li>1-r</li> <li>1/r</li> <li>r<sup>2</sup></li> <li>1-r<sup>2</sup></li> </ul> Question No.43 Deseasonalized time series data still include <ul> <li>trend and cyclic movements</li> <li>trend, cyclic and irregular movements</li> <li>cyclic and irregular movements</li> <li>trend and random movements</li> </ul>	Bookmark 🗖
<ul> <li>1-r</li> <li>1/r</li> <li>r<sup>2</sup></li> <li>1-r<sup>2</sup></li> </ul> Question No.43 Deseasonalized time series data still include <ul> <li>trend and cyclic movements</li> <li>trend, cyclic and irregular movements</li> <li>cyclic and irregular movements</li> </ul>	
<ul> <li>1-r</li> <li>1/r</li> <li>r<sup>2</sup></li> <li>1-r<sup>2</sup></li> </ul> Question No.43 Deseasonalized time series data still include <ul> <li>trend and cyclic movements</li> <li>trend, cyclic and irregular movements</li> <li>cyclic and irregular movements</li> <li>trend and random movements</li> <li>trend and random movements</li> </ul>	Bookmark 4.00
<ul> <li>1-r</li> <li>1/r</li> <li>r<sup>2</sup></li> <li>1-r<sup>2</sup></li> </ul> Question No.43 Deseasonalized time series data still include <ul> <li>trend and cyclic movements</li> <li>trend, cyclic and irregular movements</li> <li>cyclic and irregular movements</li> <li>trend and random movements</li> <li>trend and random movements</li> </ul> Question No.44 Identify the underlined part of speech: Sorry, I don't know any foreign languages	Bookmark 4.00
<ul> <li>1-r</li> <li>1/r</li> <li>r<sup>2</sup></li> <li>1-r<sup>2</sup></li> </ul> Question No.43 Deseasonalized time series data still include <ul> <li>trend and cyclic movements</li> <li>trend, cyclic and irregular movements</li> <li>cyclic and irregular movements</li> <li>trend and random movements</li> <li>trend and random movements</li> </ul> Question No.44 Identify the underlined part of speech: Sorry, I don't know any foreign languages <ul> <li>adverb</li> </ul>	Bookmark 4.00
<ul> <li>1-r</li> <li>1/r</li> <li>r<sup>2</sup></li> <li>1-r<sup>2</sup></li> </ul> Question No.43 Deseasonalized time series data still include <ul> <li>trend and cyclic movements</li> <li>trend, cyclic and irregular movements</li> <li>cyclic and irregular movements</li> <li>cyclic and irregular movements</li> <li>trend and random movements</li> <li>trend and random movements</li> <li>a trend and random movements</li> <li>o trend and random movements</li> <li>o trend and random movements</li> </ul>	Bookmark 4.00
<ul> <li>1-r</li> <li>1/r</li> <li>r<sup>2</sup></li> <li>1-r<sup>2</sup></li> </ul> Question No.43 Deseasonalized time series data still include <ul> <li>trend and cyclic movements</li> <li>trend, cyclic and irregular movements</li> <li>cyclic and irregular movements</li> <li>trend and random movements</li> </ul> Question No.44 Identify the underlined part of speech: <ul> <li>Sorry, I don't know any foreign languages</li> <li>adverb</li> <li>noun</li> <li>pronoun</li> </ul>	Bookmark 4.00
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<ul> <li>1-r</li> <li>1/r</li> <li>r<sup>2</sup></li> <li>1-r<sup>2</sup></li> </ul> Question No.43 Deseasonalized time series data still include <ul> <li>trend and cyclic movements</li> <li>trend, cyclic and irregular movements</li> <li>cyclic and irregular movements</li> <li>trend and random movements</li> </ul> Question No.44 Identify the underlined part of speech: <ul> <li>Sorry, I don't know any foreign languages</li> <li>adverb</li> <li>noun</li> <li>pronoun</li> </ul>	Bookmark 4.00
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Question No.50	4.00 Bookmark
A statement of the error or precision of an estimate is often called its © efficiency	
© Bias	
O reliability	
© Consistency	
Question No.51	4.00 Bookmark ⊡
Assertion: - India's president is appointed on a five-year term	
Reason: -PratibhaPatil was appointed as India's first woman president in 2007	
<ul> <li>Both A and R are true and R is not the correct explanation of A</li> <li>A is false but R is true</li> </ul>	
<ul> <li>A is lase but it is the</li> <li>Both A and R are true and R is the correct explanation of A</li> </ul>	
C A is true but R is false	
Question No.52	4.00
Normality of data can be tested using	Bookmark
<ul> <li>Normal probability plot, Kolmogorov-Smirnov test and Anderson-Darling test</li> </ul>	
C Normal probability plot only	
Andesrson-Darling test only	
C Kolmogorov-Smirnov test only	
Question No.53	4.00
	Bookmark 🗖
The 95% confidence interval for the population variance when a sample is drawn from a follows normal distribution is specified by $\frac{ns^2}{\chi^2_{0.025}} \leq \sigma^2 \leq \frac{ns^2}{\chi^2_{0.975}}$	Bookmark
follows normal distribution is specified by $\frac{ns^2}{\frac{ns^2}{s^2}} \le \sigma^2 \le \frac{ns^2}{s^2}$	
follows normal distribution is specified by $\frac{ns^2}{\chi^2_{0.025}} \le \sigma^2 \le \frac{ns^2}{\chi^2_{0.975}}$	
follows normal distribution is specified by $C = \frac{ns^2}{\chi^2_{0.025}} \le \sigma^2 \le \frac{ns^2}{\chi^2_{0.975}}$ $C = \frac{\chi^2_{0.975}}{ns^2} \le \sigma^2 \le \frac{\chi^2_{0.025}}{ns^2}$	
follows normal distribution is specified by $C = \frac{ns^2}{\chi_{0.025}^2} \le \sigma^2 \le \frac{ns^2}{\chi_{0.975}^2}$ $C = \frac{\chi_{0.975}^2}{ns^2} \le \sigma^2 \le \frac{\chi_{0.025}^2}{ns^2}$ $C = \frac{ns^2}{\chi_{0.975}^2} \le \sigma^2 \le \frac{ns^2}{\chi_{0.025}^2}$	
follows normal distribution is specified by $C = \frac{ns^2}{\chi_{0.025}^2} \le \sigma^2 \le \frac{ns^2}{\chi_{0.975}^2}$ $C = \frac{\chi_{0.975}^2}{ns^2} \le \sigma^2 \le \frac{\chi_{0.025}^2}{ns^2}$ $C = \frac{ns^2}{\chi_{0.975}^2} \le \sigma^2 \le \frac{ns^2}{\chi_{0.025}^2}$ $C = \frac{\chi_{0.025}^2}{ns^2} \le \sigma^2 \le \frac{\chi_{0.975}^2}{ns^2}$ Question No.54 Identify the type of set: (2, 3, 4, 4, 4, 5, 5, 7, 7, 7, 9).	population
follows normal distribution is specified by $C = \frac{ns^{2}}{\chi_{0.025}^{2}} \leq \sigma^{2} \leq \frac{ns^{2}}{\chi_{0.975}^{2}}$ $C = \frac{\chi_{0.025}^{2}}{ns^{2}} \leq \sigma^{2} \leq \frac{\chi_{0.025}^{2}}{ns^{2}}$ $C = \frac{ns^{2}}{\chi_{0.975}^{2}} \leq \sigma^{2} \leq \frac{ns^{2}}{\chi_{0.025}^{2}}$ $C = \frac{\chi_{0.025}^{2}}{ns^{2}} \leq \sigma^{2} \leq \frac{\chi_{0.975}^{2}}{ns^{2}}$ Question No.54	population
follows normal distribution is specified by $C \frac{ns^{2}}{\chi_{0.025}^{2}} \leq \sigma^{2} \leq \frac{ns^{2}}{\chi_{0.975}^{2}}$ $C \frac{\chi_{0.975}^{2}}{ns^{2}} \leq \sigma^{2} \leq \frac{\chi_{0.025}^{2}}{ns^{2}}$ $C \frac{ns^{2}}{\chi_{0.975}^{2}} \leq \sigma^{2} \leq \frac{ns^{2}}{\chi_{0.025}^{2}}$ $C \frac{\chi_{0.025}^{2}}{ns^{2}} \leq \sigma^{2} \leq \frac{\chi_{0.025}^{2}}{ns^{2}}$ $D = \frac{\chi_{0.025}^{2}}{ns^{2}} \leq \sigma^{2} \leq \frac{\chi_{0.975}^{2}}{ns^{2}}$ $D = \frac{\chi_{0.025}^{2}}{ns^{2}} \leq \sigma^{2} \leq \frac{\chi_{0.975}^{2}}{ns^{2}}$ $D = \frac{\chi_{0.025}^{2}}{ns^{2}} \leq \sigma^{2} \leq \frac{\chi_{0.025}^{2}}{ns^{2}}$ $D = \frac{\chi_{0.025}^{2}}{ns^{2}} \leq \frac$	population

Question No.55	4.00 Bookmark □
In the usual notation the inter-quartile range of a data set is given by $C  (Q_3 - Q_1)$	
C (Q <sub>3</sub> /Q <sub>1</sub> )	
$c  \frac{(Q_3 - Q_1)}{(Q_3 + Q_1)}$	
$(Q_3 + Q_1)$ $(Q_3 + Q_1)$	
Question No.56	4.00
For a random variable X if $E(X) = m$ then $E(3X+5) =$	Bookmark
© 3m+5	
○ 9m ○ 3m+15	
© 3m	
Question No.57	4.00 Bookmark □
Question No.57         Based on the information given, answer the below question.         1. A,B,C,D,E and F are travelling in a bus.         2. There are two reporters, two mechanics, one photographer and one writer in the group.         3. Photographer A is married to D who is a reporter.         4. The writer is married to B who is of the same profession as that of F.         5. A,B,C,D are two married couples and no one in this belong to the same profession.         6. F is the brother of C.	4.00 Bookmark ∏
<ul> <li>Based on the information given, answer the below question.</li> <li>1. A,B,C,D,E and F are travelling in a bus.</li> <li>2. There are two reporters, two mechanics, one photographer and one writer in the group.</li> <li>3. Photographer A is married to D who is a reporter.</li> <li>4. The writer is married to B who is of the same profession as that of F.</li> <li>5. A,B,C,D are two married couples and no one in this belong to the same profession.</li> </ul>	
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<ul> <li>Based on the information given, answer the below question.</li> <li>1. A,B,C,D,E and F are travelling in a bus.</li> <li>2. There are two reporters, two mechanics, one photographer and one writer in the group.</li> <li>3. Photographer A is married to D who is a reporter.</li> <li>4. The writer is married to B who is of the same profession as that of F.</li> <li>5. A,B,C,D are two married couples and no one in this belong to the same profession.</li> <li>6. F is the brother of C.</li> <li>How is C related to F?</li> <li>© Brother-in-law</li> <li>© Sister</li> </ul>	
<ul> <li>Based on the information given, answer the below question.</li> <li>1. A,B,C,D,E and F are travelling in a bus.</li> <li>2. There are two reporters, two mechanics, one photographer and one writer in the group.</li> <li>3. Photographer A is married to D who is a reporter.</li> <li>4. The writer is married to B who is of the same profession as that of F.</li> <li>5. A,B,C,D are two married couples and no one in this belong to the same profession.</li> <li>6. F is the brother of C.</li> <li>How is C related to F?</li> <li>O Brother-in-law</li> </ul>	
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Based on the information given, answer the below question. 1. A,B,C,D,E and F are travelling in a bus. 2. There are two reporters, two mechanics, one photographer and one writer in the group. 3. Photographer A is married to D who is a reporter. 4. The writer is married to B who is of the same profession as that of F. 5. A,B,C,D are two married couples and no one in this belong to the same profession. 6. F is the brother of C. How is C related to F? C Brother-in-law Sister C Cannot be determined Question No.58	Bookmark
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Question No.59	4.00 Bookmark □
Choose the best antonym of the italicized word.	
Ravi and Raghu are really obstinate men.	
○ friendly	
○ compliant	
O considerate	
O understanding	
Question No.60	4.00 Bookmark □
In a code language, 321 means "Hot Black Coffee", 536 means "Very Hot Summer", a "Summer and Winter". Which digit stands for "Very" ?	-
© 5	
03	
09	
0 6	
Question No.61	4.00 Bookmark □
Data on categorical variables is summarized as	· · · · · · · · · · · · · · · ·
○ Average	
○ Ratio	
○ Interval	
© Frequency	
Question No.62	4.00 Bookmark ⊡
In the usual notation, if $ACB = null set then P(A B) =$	
O P(B)	
© P(A)/P(B)	
0 0	
0.0	
© P(A)	
C P(A)	4.00
	4.00 Bookmark ⊡
© P(A) Question No.63	
C P(A) Question No.63 In the usual notation the expression	
C P(A) Question No.63 In the usual notation the expression $\frac{r_{12}^2 + r_{13}^2 - 2r_{12}r_{13}r_{23}}{r_{23}} donotor$	
$\circ$ P(A) Question No.63 In the usual notation the expression $\sqrt{\frac{r_{12}^2 + r_{13}^2 - 2r_{12}r_{13}r_{23}}{1 - r_{13}^2}}$ denotes	
$\circ$ P(A) Question No.63 In the usual notation the expression $\sqrt{\frac{r_{12}^2 + r_{13}^2 - 2r_{12}r_{13}r_{23}}{1 - r_{13}^2}} denotes$ $\circ$ R <sub>2.13</sub>	
$\circ$ P(A) Question No.63 In the usual notation the expression $\sqrt{\frac{r_{12}^2 + r_{13}^2 - 2r_{12}r_{13}r_{23}}{1 - r_{13}^2}} denotes$ $\circ$ R <sub>2.13</sub> $\circ$ R <sub>3.12</sub>	
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	
$\circ$ P(A) Question No.63 In the usual notation the expression $\sqrt{\frac{r_{12}^2 + r_{13}^2 - 2r_{12}r_{13}r_{23}}{1 - r_{13}^2}} denotes$ $\circ$ R <sub>2.13</sub> $\circ$ R <sub>3.12</sub>	
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Question No.65	4.00 <b>Bookmark</b> <u></u>
For what value of c,	
the function	
$f(x) = c, a \le x \le b$ is	
the density function?	
○ 1/(a+b)	
C 1/(b-a)	
0 1	
⊂ 1/(a-b)	
Question No.66	4.00
	Bookmark
Good restaurants serving pure vegetarian food are very hard to © get in	
© come by	
© take to	
© go through	
Question No.67	4.00 Bookmark
Consider the following statements:	Bookman
I: The company sold 5000 units of product A each costing Rs. 100.	
ll: This company has no other product line. To find the total sales of the company, which of the following is true?	
<ul> <li>I alone is sufficient while II alone is not sufficient</li> </ul>	
○ Either I or II is sufficient	
Il alone is sufficient while I alone is not sufficient	
Both I and II are sufficient	
Question No.68	4.00
	Bookmark
The diagram used to understand the nature of relationship between two variables is	
<ul> <li>Scatter diagram</li> </ul>	
C Pie chart	
<ul> <li>Line chart</li> <li>Pie chart</li> </ul>	

# Question No.69 4.00 Bookmark [] The standard error of the sampling distribution of proportions is given by $^{\circ} \sqrt{\frac{n}{p(1-p)}}$ $^{\circ} \frac{n}{p(1-p)}$ $^{\circ} \frac{p(1-p)}{n}$ $^{\circ} \sqrt{\frac{p(1-p)}{n}}$

### **Question No.70**

### Bookmark

4.00

Three sources of error or variability can be controlled using

- C factorial design
- C Latin squares design
- O Greaco Latin squares design
- randomized block design

### **Question No.71**

### 4.00 Bookmark

A quantity computed with complete population data to represent a characteristic of the population is called

- index
- parameter
- o statistic
- sample point

Question No.72	4.00 Bookmark ⊡
Assume that	
$r_{12} = r_{13} = r_{23} = r \neq 1.$	
Then, $R_{1.23} =$	
co. Solory	
$\sqrt{\frac{2}{1-r}}$	
$r\sqrt{\frac{2}{1-r}}$	
$\sqrt{1-r}$	
$\sqrt{\frac{2}{1+r}}$	
$\sqrt{1+r}$	
0 2	
$r\sqrt{\frac{2}{1+r}}$	
Question No.73	4.00
The most common multiplier used in vital statistics mortality rates is	Bookmark
C 10000	
C 1000 C 100	
O 10	
Question No.74	4.00
A nonparametric test for randomness is provided by	Bookmark
ה הטהףמומוחכנווט נכסג וטו זמויטטוווופסס וס ףוטעועכע שע	
C Kruskal-Wallis test	
<ul> <li>Kruskal-Wallis test</li> <li>sign test</li> </ul>	
C Kruskal-Wallis test	
<ul> <li>Kruskal-Wallis test</li> <li>sign test</li> <li>theory of runs</li> <li>Friedman test</li> </ul>	1.00
<ul> <li>Kruskal-Wallis test</li> <li>sign test</li> <li>theory of runs</li> <li>Friedman test</li> </ul> Question No.75	4.00 Bookmark □
<ul> <li>Kruskal-Wallis test</li> <li>sign test</li> <li>theory of runs</li> <li>Friedman test</li> </ul> Question No.75 Select the option which improves the underlined part of the sentences.	
<ul> <li>Kruskal-Wallis test</li> <li>sign test</li> <li>theory of runs</li> <li>Friedman test</li> </ul> Question No.75 Select the option which improves the underlined part of the sentences. The Prime Minister called on the President. <ul> <li>to</li> </ul>	
<ul> <li>Kruskal-Wallis test</li> <li>sign test</li> <li>theory of runs</li> <li>Friedman test</li> </ul> Question No.75 Select the option which improves the underlined part of the sentences. The Prime Minister called on the President. <ul> <li>to</li> <li>by</li> </ul>	
<ul> <li>Kruskal-Wallis test</li> <li>sign test</li> <li>theory of runs</li> <li>Friedman test</li> </ul> Question No.75 Select the option which improves the underlined part of the sentences. The Prime Minister called on the President. <ul> <li>to</li> </ul>	
<ul> <li>Kruskal-Wallis test</li> <li>sign test</li> <li>theory of runs</li> <li>Friedman test</li> </ul> Question No.75 Select the option which improves the underlined part of the sentences. The Prime Minister called on the President. <ul> <li>to</li> <li>by</li> <li>in</li> <li>No improvement</li> </ul>	Bookmark 🗖
<ul> <li>Kruskal-Wallis test</li> <li>sign test</li> <li>theory of runs</li> <li>Friedman test</li> </ul> Question No.75 Select the option which improves the underlined part of the sentences. The Prime Minister called on the President. <ul> <li>to</li> <li>by</li> <li>in</li> <li>No improvement</li> </ul> Question No.76	
<ul> <li>Kruskal-Wallis test</li> <li>sign test</li> <li>theory of runs</li> <li>Friedman test</li> </ul> Question No.75 Select the option which improves the underlined part of the sentences. The Prime Minister called on the President. <ul> <li>to</li> <li>by</li> <li>in</li> <li>No improvement</li> </ul> Question No.76 The Arithmetic Mean of first 9 natural numbers is	Bookmark [] 4.00
<ul> <li>Kruskal-Wallis test</li> <li>sign test</li> <li>theory of runs</li> <li>Friedman test</li> </ul> Question No.75 Select the option which improves the underlined part of the sentences. The Prime Minister called on the President. <ul> <li>to</li> <li>by</li> <li>in</li> <li>No improvement</li> </ul> Question No.76	Bookmark 4.00
<ul> <li>Kruskal-Wallis test</li> <li>sign test</li> <li>theory of runs</li> <li>Friedman test</li> </ul> Question No.75 Select the option which improves the underlined part of the sentences. The Prime Minister called on the President. <ul> <li>to</li> <li>by</li> <li>in</li> <li>No improvement</li> </ul> Question No.76 The Arithmetic Mean of first 9 natural numbers is <ul> <li>4.5</li> </ul>	Bookmark 4.00

Question No.77	4.00 Bookmark □
The number of points	
of intersections of the	
graphs of $y = x^2$ and	
$y = 2 - x^2$	
y - 2 - x	
O 1	
C 2	
C 3	
C 0	
Question No.78	4.00 Bookmark
If X is a discrete random variable taking values 1,2,,n then $P(X=i)$ is called for a final set of the set of	
C probability density	
○ distribution	
O probability mass	
○ characteristic	
	4.00
C characteristic Question No.79	4.00 Bookmark ⊡
C characteristic Question No.79 Choose the correct meaning of the italicized idiom.	
C characteristic Question No.79 Choose the correct meaning of the italicized idiom.	
C characteristic Question No.79 Choose the correct meaning of the italicized idiom. He had great difficulty to <i>save his bacon</i> when he was blackmailed.	
<ul> <li>c characteristic</li> <li>Question No.79</li> <li>Choose the correct meaning of the italicized idiom.</li> <li>He had great difficulty to <i>save his bacon</i> when he was blackmailed.</li> <li>c Threaten somebody</li> </ul>	
<ul> <li>characteristic</li> <li>Question No.79</li> <li>Choose the correct meaning of the italicized idiom.</li> <li>He had great difficulty to save his bacon when he was blackmailed.</li> <li>Threaten somebody</li> <li>Escape death</li> </ul>	
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Question No.81	4.00
	Bookmark
<ul> <li>Based on the given information, answer the following question.</li> <li>1. Six friends P,Q,R,S,T and U are memebers of a club and play different games of Footl Tennis, Basketball, Badminton and Volleyball</li> <li>2. T who is taller than P and S plays Tennis.</li> <li>3. The tallest among them plays Basketball.</li> <li>4. The Shortest among them plays volleyball.</li> <li>5. Q and S neither play Volleyball nor Basketball.</li> <li>6. R plays Volleyball</li> <li>7. T is between Q who plays Football and P in order of height</li> </ul>	ball, Cricket,
What does S Play?	
© Cricket	
© Badminton	
<ul> <li>C Either Cricket or Badminton</li> <li>C None of the above</li> </ul>	
Question No.82 It takes eight hours for a 600 km journey, if 120 km is done by train and the rest by car. It is minutes more, if 200 km is done by train and the rest by car. The ratio of the speed of the of the cars is: 0 3:4 0 1:4 0 2:3 0 1:2	
Oursetien No. 92	4.00
Question No.83 When Y and X are related by the model Y = 2x+4 then the correlation coefficient between C -1 C +1 C 0.5 C 0	4.00 Bookmark X and Y is
When Y and X are related by the model Y = 2x+4 then the correlation coefficient between C -1 C +1 C 0.5 C 0	Bookmark
When Y and X are related by the model Y = 2x+4 then the correlation coefficient between C -1 C +1 C 0.5	Bookmark
When Y and X are related by the model Y = 2x+4 then the correlation coefficient between $\circ$ -1 $\circ$ +1 $\circ$ 0.5 $\circ$ 0 Question No.84 The expression $\frac{r_{12}-r_{12}r_{23}}{\sqrt{(1-r_{12}^2)(1-r_{23}^2)}}$ indicates the	Bookmark  X and Y is
When Y and X are related by the model Y = 2x+4 then the correlation coefficient between $\circ$ -1 $\circ$ +1 $\circ$ 0.5 $\circ$ 0 Question No.84 The expression $\frac{r_{12}-r_{12}r_{23}}{\sqrt{(1-r_{12}^2)(1-r_{23}^2)}}$ indicates the following partial correlation	Bookmark  X and Y is
When Y and X are related by the model Y = 2x+4 then the correlation coefficient between $\circ -1$ $\circ +1$ $\circ 0.5$ $\circ 0$ Question No.84 The expression $\frac{r_{12}-r_{12}r_{22}}{\sqrt{(1-r_{12}^2)(1-r_{23}^2)}}$ indicates the following partial correlation $\circ r_{13.2}$	Bookmark  X and Y is
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When Y and X are related by the model Y = 2x+4 then the correlation coefficient between $\circ$ -1 $\circ$ +1 $\circ$ 0.5 $\circ$ 0 Question No.84 The expression $\frac{r_{12}-r_{12}r_{23}}{\sqrt{(1-r_{12}^2)(1-r_{23}^2)}}$ indicates the $\int (1-r_{12}^2)(1-r_{23}^2)$ following partial correlation $\circ$ r <sub>13.2</sub> $\circ$ r <sub>12.3</sub> $\circ$ r <sub>32.1</sub>	Bookmark X and Y is 4.00 Bookmark 4.00
When Y and X are related by the model Y = 2x+4 then the correlation coefficient between $\bigcirc -1$ $\bigcirc +1$ $\bigcirc 0.5$ $\bigcirc 0$ Question No.84 The expression $\frac{r_{12}-r_{12}r_{23}}{\sqrt{(1-r_{22}^2)(1-r_{22}^2)}}$ indicates the $\sqrt{(1-r_{12}^2)(1-r_{22}^2)}$ following partial correlation $\bigcirc r_{13.2}$ $\bigcirc r_{12.3}$ $\bigcirc r_{32.1}$ $\bigcirc r_{23.1}$ Question No.85	Bookmark X and Y is 4.00 Bookmark
When Y and X are related by the model Y = 2x+4 then the correlation coefficient between $\bigcirc -1$ $\bigcirc +1$ $\bigcirc 0.5$ $\bigcirc 0$ Question No.84 The expression $\frac{r_{12}-r_{12}r_{22}}{\sqrt{(1-r_{22}^2)(1-r_{23}^2)}}$ indicates the following partial correlation $\bigcirc r_{13.2}$ $\bigcirc r_{12.3}$ $\bigcirc r_{32.1}$ $\bigcirc r_{23.1}$	Bookmark X and Y is
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When Y and X are related by the model Y = 2x+4 then the correlation coefficient between $\bigcirc -1$ $\bigcirc +1$ $\bigcirc 0.5$ $\bigcirc 0$ Question No.84 The expression $\frac{r_{12}-r_{12}r_{23}}{\sqrt{(1-r_{12}^2)(1-r_{23}^2)}}$ indicates the following partial correlation $\bigcirc r_{13,2}$ $\bigcirc r_{12,3}$ $\bigcirc r_{32,1}$ $\bigcirc r_{32,1}$ C r <sub>23,1</sub> Mathematical correlation $\bigcirc r_{32,1}$ $\bigcirc r_{23,1}$ If X takes values 1,2,3,4,5 with equal probability then E(X) = $\bigcirc 7.5$ $\bigcirc 3$	Bookmark X and Y is

Question No.36
 4.00

 Bookmark []

 
$$E(X | Y) =$$
 $^{\circ} \int_{-\infty}^{\infty} f(y | x) dy$ 
 $^{\circ} \int_{-\infty}^{\infty} f(x | y) dx$ 
**Duestion No.87**
 4.00

 **Rockmark []**
 $f(x, y) dy$ 
 $^{\circ} \int_{-\infty}^{\infty} f(x, y) dy$ 
 $^{\circ} \int_{-\infty}^{\infty} f(x, y) dy$ 
 $^{\circ} \int_{-\infty}^{\infty} f(x, y) dx$ 
**Duestion No.38**
 4.00

 **Dockmark []**

 Choose the best synonym of the italicized word.

 Each ore of us is the subject of devision at some time or the other in our life.

  $^{\circ}$  origitizer

  $^{\circ}$  introp

  $^{\circ}$  introp

### **Question No.89**

Bookmark

The regression equation of X<sub>1</sub> on X<sub>2</sub> and X<sub>3</sub> can be written as X<sub>1</sub> =

$$c \ a + b_{13,2}X_2 + b_{12,3}X_3$$
  

$$c \ a + b_{12}X_2 + b_{13}X_3$$
  

$$c \ a + b_{12,3}X_2 + b_{13,2}X_3$$
  

$$c \ a + b_{12,3}X_2 + b_{13,2}X_3$$
  

$$c \ a + b_{13}X_2 + b_{12}X_3$$

### Question No.90

4.00 Bookmark

Suppose that X is a random variable having mean  $\mu$  and variance  $\sigma^2$ , which are finite. Then, if  $\epsilon$  is any positive number, which of the following is true?

$$P[|X - \mu| \le \varepsilon] \le \frac{\sigma^2}{\varepsilon^2}$$

$$P[|X - \mu| \ge \varepsilon] \ge \frac{\sigma^2}{\varepsilon^2}$$

$$P[|X - \mu| \ge \varepsilon] \le \frac{\sigma^2}{\varepsilon^2}$$

$$P[|X - \mu| \le \varepsilon] \le \frac{\sigma^2}{\varepsilon^2}$$

Question No.91

If 
$$s_n = \frac{2n+1}{n+1}$$
, then  

$$\lim_{n \to \infty} s_n =$$

$$0$$

$$0$$

$$0$$

$$0$$

$$1$$

$$0$$

### Question No.92

4.00 Bookmark

4.00

Bookmark

Ramesh had a cold and couldn't go to the party, so I bought him a cake to make up for his\_\_\_\_\_

○ depression

C disgust

○ disappointment

○ disillusion

Question No.93	4.00
The geometric mean of Laspeyre's and Paasche's formulae is	Bookmark
© Walsch index number	
• Fisher's ideal index number	
<ul> <li>Marshall – Edgeworth index number</li> </ul>	
<ul> <li>Bowley index number</li> </ul>	
Question No.94	4.00
Study the following information carefully and answer the question below it	Bookmark 🕅
The Director of an MBA college has decided that six guest lectures on the topics of Motiva Decision Making, Quality Circle, Assessment Centre, Leadership and Group Discussion a organised on each day from Monday to Sunday. (i) One day there will be no lecture (Saturday is not that day), just before that day Group Di	are to be
will be organised. (ii) Motivation should be organised immediately after Assessment Centre. (iii) Quality Circle should be organised on Wednesday and should not be followed by Grou	ar
Discussion (iv) Decision Making should be organised on Friday and there should be a gap of two day Leadership and Group Discussion	
How many lectures are organised between Motivation and Quality Circle?	
○ Four	
© Two	
© Three	
Question No.95	4.00
	Bookmark 🗖
The quantity E[ X-E(X) ] <sup>3</sup> is a measure of	
© Scale	
© Kurtosis	
© Skewness	
C Location	
Question No.96	4.00
Choose the missing term: 3F,6G,11I,18L, ?	Bookmark 🗖
© 28Q	
© 26N	
C 27O	
Question No.97	4.00
Bayes theorem produces probability	Bookmark 🗖
© Complementary	
© Empirical	
○ Posterior	

### **Question No.98**

### 4.00

Bookmark

In the usual notation  $E(e^{itX})$  is called

- Probability Generating Function
- $\ensuremath{\mathbb{C}}$  Moment Generating Function
- C Characteristic Function
- $\ensuremath{\mathbb{C}}$  Cumulant Generating Function

### Question No.99

4.00 Bookmark

If  $\overline{A}$  denotes the compliment of A then  $P(\overline{A}) =$ 

- 01
- O P(A)+0.5
- 0 1/P(A)
- O 1-P(A)

# Question No.100

Consider F and t distributions. Which of the following relations is true?

• 
$$F_{1-p,1,\nu} = t_{1-(p/2),\nu}^2$$
  
•  $F_{1-p,1,\nu} = t_{p/2,\nu}^2$ 

<sup>C</sup> 
$$F_{1-p,1,\nu} = t_{p,\nu}^2$$

<sup>C</sup> 
$$F_{1-p,1,\nu} = t_{1-p,\nu}^2$$

### 4.00 Bookmark