## PROVISIONAL ANSWER KEY

| Question Paper Code: | $11 / 2015 /$ OL |
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| Category Code: | $195 / 2013$ |
| Exam: | Statistical Assistant gr II |
| Medium of Question: | English |
| Date of Test | $29-06-2015$ |
| Alphacode | A |

Question1:-Drafting Committee chairman of Indian Constitution
A:-Dr. Rajendra Prasad
B:-Dr. B R Ambedkar
C:-Jawaharlal Nehru
D:-Sardar Vallabjhai Patel
Correct Answer:- Option-B
Question2:-The President of India who officially issued a state of emergency in 1975
A:-Zakir Huzain
B:-V.V. Giri
C:-Fakruddin Ali Ahmad
D:-Neelam Sanjeev Reddy
Correct Answer:- Option-C
Question3:-Right to Information Law was passed on
A:-26 January 2005
B:-15 June 2005
C:-15 August 2005
D:-2 October 2005
Correct Answer:- Option-B
Question4:-The ruler who founded the first English school in Travancore
A:-Chithira Thirunnal
B:-Sree Moolam Thirunnal
C:-Swathy Thirunnal
D:-Vishakham Thirunnal
Correct Answer:- Option-C
Question5:-First travelogue in Malayalam
A:-London Note Book
B:-Varthamana Pustakam
C:-Vazhiyorakazchakal
D:-Israel Yatra
Correct Answer:- Option-B
Question6:-Founder of Prathyaksha Raksha Sabha
A:-Joseph Parekkattil
B:-Benjamin Bailee
C:-Charls Mart
D:-Poykayil Yohannan
Correct Answer:- Option-D
Question7:-Travancore State Congress was formed in
A:-1932
B:-1936
C:-1938
D:-1939
Correct Answer:- Option-C
Question8:-The leader of Ezhava Memorial
A:-G.P. Pillai
B:-Dr. Palpu
C:-Nataraja Guru
D:-Kumaran Asan
Correct Answer:- Option-B
Question9:-Paliyam Satyagraha was in the year
A:-1924
B:-1931
C:-1948
D:-1959
Correct Answer:- Option-C
Question10:-Who started the monthly publication Gramadeepam?
A:-K. Kelappan
B:-T.N. Gangadharan
C:-K.M. Mathew
D:-K. Balakrishnan
Correct Answer:- Option-A
Question11:-Who among the following started a branch of Brahma Samaj at Kozhikode in 1898 ?
A:-Ayyathan Gopalan
B:-K. Ayyappan
C:-T.K. Madhavan
D:-P. Narayanan Nair
Correct Answer:- Option-A
Question12:-Seethamuthal Sathyavathivare is a work of
A:-Balamani Amma
B:-Lalithambika Antharjanam
C:-Dr. M. Leelavathy
D:-Kamala Surayya
Correct Answer:- Option-B
Question13:-The Malayali who delivered his speech in Malayalam at Oxford University in 1959
A:-V.K. Krishna Menon
B:-Mannathu Padmanabhan
C:-K.P. Kesava Menon
D:-Captain Lekshmi
Correct Answer:- Option-B
Question14:-The leader of the Yachana Yatra in 1931
A:-A.K. Gopalan
B:-M.P. Manmathan

## C:-V.T. Bhattathiripad

D:-Ayyankali
Correct Answer:- Option-C
Question15:-Who organized a Misrabhojanam in 1917 at Kozhikode
A:-K.P. Vallon
B:--C. Krishnan
C:-Chovvara Parameswaran
D:-Sahodaran Ayyappan
Correct Answer:- Option-D
Question16:-Who is popularly known as Kerala Vyasan ?
A:-Vallathol Narayana Menon
B:-A.R. Rajaraja Varma
C:-Kodungalloor Kunjikkuttan Thampuran
D:-Keralavarma Valiyakoyi Thampuran
Correct Answer:- Option-C
Question17:-The birth palace of Ulloor S. Parameswara Iyer
A:-Kilimanoor
B:-Pattom
C:-Mavelikkara
D:-Changanacherry
Correct Answer:- Option-D
Question18:-Temple Entry Proclamation was declared on
A:-1 November 1935
B:-12 November 1935
C:-1 November 1936
D:-12 November 1936
Correct Answer:- Option-D
Question19:-The Pope who canonized Mar Kurikos Elias Chavara on 23 November 2014
A:-Pope John Paul I
B:-Pope John Paul II
C:-Pope Francis
D:-Pope Benedict XVI
Correct Answer:- Option-C
Question20:-Founder of Bachpan Bachao Andolan
A:-Medha Padkar
$\mathrm{B}:$-Kailash Satyarthi
C:-Sundarlal Bahuguna
D:-Arundhathi Roy
Correct Answer:- Option-B
Question21:-Who among the following is the real giant in the development of the theory of Statistics?
A:-I. Fisher
B:-Prof. R.A. Fisher
C:-P.C. Mahalanobis
D:-C.R. Rao
Correct Answer:- Option-B
Question22:-A suitable method of collecting data in cases where the informants are literate and spread over a vast area:
A:-Direct personal interview
B:-Mailed questionnaire method
C:-Sample method
D:-Primary method
Correct Answer:- Option-B
Question23:-The point of intersection of ogives correspond to:
A:-Mean
B:-Geometric mean
C:-Mode
D:-Median
Correct Answer:- Option-D
Question24:-In a ratio graph, the vertical scale starts with:
A:-0
B:--1
C:-1
D:-Any positive number
Correct Answer:- Option-D
Question25:-Out of 19 students appeared for a test only 10 students are qualified and their scores are respectively $36,45,58,63,39,43,47,34,41$ and 50 . The median mark of all students is :
A:-45
B:-39
C:-34
D:-41
Correct Answer:- Option-C
Question 26:-The arithmetic mean and harmonic mean of certain data set are respectively 90 and 40 . Then the geometric mean is :
A:-50
B:-60
C:-80
D:-Data is not sufficient
Correct Answer:- Option-B
Question27:-The arithmetic mean of two sample observations is greater than the smallest by their :
A:-Standard error
B:-Variance
C:-Range
D:-None of these
Correct Answer:- Option-A
Question28:-The harmonic mean of certain data set is 25 and if each observation is multiplied by 2 . Then the harmonic mean of new data set is :
A:-25/2
B:-25
C:-100
D:-50
Correct Answer:- Option-D
Question29:-In Lorenz curve, the diagonal line $y=x$ is known as:
A:-Coefficient of determination

B:-Line of unequal distribution
B:-Line of unequal distributic
C:-Line of equal distribution
D:-Line of poverty
Correct Answer:- Option-C
B:-Line of unequal distributi
C:-Line of equal distribution
D:-Line of poverty
Correct Answer:- Option-C
B:-Line of unequal distributi
C:-Line of equal distribution
D:-Line of poverty
Correct Answer:- Option-C
Question 30 :-If $25 \%$ of the items in a distribution are less than 10 and $25 \%$ are more than 40 , the quartile deviation is :
A:-25
B:-20
C:-15
D:-5
Correct Answer:- Option-C
Question31:-The standard deviation of the observations x and y is :
A:-Absolute value of ( $x-y$ )/2
B:-Absolute value of ( $x-y$ )
C:-(x-y)
D:-None of these
Correct Answer:- Option-A
Question32:-The coefficient of variation of first four natural numbers is :
A:-5 ${ }^{\frac{1}{2}}$
B:-sqrt(0.4)
C:-sqrt(0.2)
D:-sqrt(2.5)
Correct Answer:- Option-C
Question33:-The distribution of mortality rates with respect to the age after ignoring the accidental deaths will give:
A:-Positively skewed distribution
B:-Negatively skewed distribution
C:-Symmetric distribution
D:-None of these
Correct Answer:- Option-A
Question34:-Which one of the following is true for a discrete distribution?
A: $-\beta_{2}>1$
B: $-\beta_{2}>3$
C:- $\beta_{2}<3$
D:- $\beta_{2}>2$
Correct Answer:- Option-A
Question35:-The sum of squares of deviations is least when measured from :
A:-Median
B.-Mean
B:-Mean
C:-Mode
D:-None of these
Correct Answer:- Option-B
Question36:-The axiomatic approach to probability was proposed by:
A:-Karl Pearson
B:-Laplace
C:-A. Kolmogorov
D:-A.N. Kolmogorov
Correct Answer:- Option-D
Question37:-10 persons are seated on 10 chairs at a round table. The probability that two specified persons are sitting next to each other is:
A: $-\frac{2}{10}$
B: $-\frac{1}{10}$

C: $-\frac{2}{9}$

D: $-\frac{1}{9}$
Correct Answer:- Option-C
Correct Answer:- Option-C
Question38:-Which of the following statement is most correct:
$\mathrm{A}:-\mathrm{P}(\mathrm{AB}) \leq \mathrm{P}(\mathrm{A})$
$\mathrm{B}:-\mathrm{P}(\mathrm{AB}) \leq \mathrm{P}(\mathrm{B})$
$\mathrm{C}:-\mathrm{P}(\mathrm{AB}) \leq \min (\mathrm{P}(\mathrm{A}), \mathrm{P}(\mathrm{B}))$
$\mathrm{D}:-\mathrm{P}(\mathrm{AB}) \leq \max (\mathrm{P}(\mathrm{A}), \mathrm{P}(\mathrm{B}))$
Correct Answer:- Option-C
$\mathrm{D}:-\mathrm{P}(\mathrm{AB}) \leq \max (\mathrm{P}(\mathrm{A}), \mathrm{P}(\mathrm{B}))$
Correct Answer:- Option-C
Question39:-A random sample of 10 different observations is given. How many samples of $\{(x, y): x<y\}$ can be formed is:
A:-45
B:-90
C:-60
D:-30
Correct Answer:- Option-A
Question 40 :-If $\mathrm{P}(\mathrm{A})=\mathrm{P}(\mathrm{B})=\mathrm{P}(\mathrm{C})=0.5, \mathrm{P}(\mathrm{AB})=\mathrm{P}(\mathrm{AC})=\mathrm{P}(\mathrm{BC})=0.2$ and $\mathrm{P}(\mathrm{ABC})=0.1$, then $\mathrm{P}(\mathrm{A}-\mathrm{B}-\mathrm{C})$ is :
A:-0.15
B:- -0.20
C:-0.10
D:-0
Correct Answer:- Option-B
Question41:-The probability of choosing a square of dimension 2 from a chess board of dimension 8 is:
A:- $\frac{1}{64}$
B:- $\frac{2}{64}$
C:- $\frac{4}{64}$
D:-None of these
Correct Answer:- Option-D
D:-None of these
Correct Answer:- Option-D
Question42:-If A and B are exhaustive and equally likely events with $P(A B)=0.2$, then $P(A)$ is:
A:-0.6
B:-0.4
C:-0.8
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None of these
$\frac{1}{0}$
$\frac{2}{9}$
A.- $\mathrm{P}(\mathrm{AB}) \leq \mathrm{P}(\mathrm{A})$
$:-\mathrm{P}(\mathrm{AB}) \leq \mathrm{P}(\mathrm{B})$

45 .
B:-90
$A \cdot-0.15$.

D:-None of these
Correct Answer:- Option-B
Question43:-A problem in statistics is given to 3 students A, B and C whose chances of solving it are $\frac{1}{2}, \frac{3}{4}$ and $\frac{1}{4}$ respectively. The probability that exactly one solves the problem is:
A: $-\frac{19}{32}$
B: $-\frac{29}{32}$
C: $-\frac{3}{32}$
D: $-\frac{13}{32}$
Correct Answer:- Option-D
Question 44 :-Which of the following statement is true ?
A:-Disjoint events are independent
B:-Independent events may be disjoint
C:-Both options 1 and 2
D:-None of these
Correct Answer:- Option-B
Question45:-Five events are said to be mutually independent if they have to satisfy ........... conditions
A:-26
B:-30
C:-28
D:-32
Correct Answer:- Option-A
Question46:-Two friends decided to meet between 2 pm and 3 pm with the proviso that one waits the other for at most 20 minutes. The chance of their meeting is:
A: $-\frac{1}{9}$
B:- $\frac{2}{9}$
C: $-\frac{4}{9}$
D: $-\frac{5}{9}$
Correct Answer:- Option-D
Question47:-Bayes' formula is used to obtain the probabilities of:
A:-Posterior events
B:-Likelihood events
C:-Prior events
D:-None of these
Correct Answer:- Option-A
Question48:-The distribution which holds the property non correlation of random variables implies independence is:
A:-Bivariate normal
B:-Bivariate exponential
C:-Bivariate Cauchy
D:-None of these
Correct Answer:- Option-A
Question49:-The Union Minister of Statistics and Program Implementation is:
A:-Dr. V. K. Singh
B:-Rajnath Singh
C:-Smriti Irani
D:-Venkia Naidu
Correct Answer:- Option-A
Question50:-The mean sum of squares is obtained by dividing the sum of squares by:
A:-Size of the sample
B:-Degrees of freedom
C:-Squared degrees of freedom
D:-Squared sample size
Correct Answer:- Option-B
Question51:-The method of moment estimator for $\Theta$ in a uniform distribution over $[-\Theta, \Theta]$ with sample mean 10 and sample variance 4 is:
A: $-2 \sqrt{3}$
B:-24
C:-10
D:-0
Correct Answer:- Option-A
Question52:-A consistent estimator of $\Theta^{2}$ in a Poisson distribution with parameter $\theta$ is:
A:-Square of sample mean
B:-Sample mean
C:-Sample variance
D:-Sample mean- sample variance
Correct Answer:- Option-A
Question53:-The degrees of freedom associated to error sum of squares in one-way ANOVA having n observations and k treatments is:
A:-n-1
B:-k-1
C:-n-k
D:-k+1
Correct Answer:- Option-C
Question54:-The sum of all two digit numbers formed using the digits $1,2,3$ and 4 if each digit is used exactly once is:
A:-110
B:-284
C:-330
D:-None of these
Correct Answer:- Option-C
Question55:-The moment generating function $\mathrm{M}(\mathrm{t})$ of a random variable X exists at:
A:-Any real value of $t$
B:-t=0
C:-Neighborhood of zero
D:-Deleted neighborhood of zero
Correct Answer:- Option-C
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B: $-\frac{q}{p^{2}}$
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C:-1
D: $-\frac{p^{2}}{q}$
Correct Answer:- Option-C
Question70:-If $X$ and $Y$ are two independent Poisson variates with parameters 2 and 3 respectively and let $U=X+Y$. Then $P(U=0)$ is:
A: $-e^{-5}$
B: $-e^{-3}$
C: $: e^{-2}$
D: $-e^{-2}+e^{-3}$
Correct Answer:- Option-A
Question71:-Referring to Question 50, $\mathrm{E}(\mathrm{X} / \mathrm{U}=3)$ is:
A:-1
B: $-\frac{2}{3}$

C: $-\frac{5}{3}$
D: $-\frac{6}{5}$
Correct Answer:- Option-D
Question72:- $\lim _{n \rightarrow \infty}\left(1-\frac{x^{2}}{n^{2}}\right)^{n}$ is:
A: $-e^{-x}$
B: $-e^{x}$
C:--1
D:-None of these
Correct Answer:- Option-D
Question73:-Which of the following statement about $B(n, p)$ is always true?
A:-It is under dispersed
B:-It is over dispersed
C:-Neither option1 nor option 2
D:-Both options 1 and 2 depend on values of $p$
Correct Answer:- Option-A
Question74:-If X follows $\mathrm{N}\left(10, \sigma^{2}=4\right)$, then the standard deviation of aX is:
A:-2a
B:-4a
C:- $2 a^{2}$
D:-None of these
Correct Answer:- Option-D
Question75:-If $X$ follows $U(0,1)$, then $\operatorname{Var}(1-X)$ is:
A: $-\frac{1}{12}$
B: $-\frac{1}{6}$
C: $-\frac{1}{2}$
D: $-\frac{1}{4}$
Correct Answer:- Option-A
Question76:-The maximum height of $\mathrm{N}(0,1)$ curve is :
A:-e
B:- $\sqrt{e}$
C: $-\frac{1}{\sqrt{\pi}}$
D: $-\frac{1}{\sqrt{2 \Pi}}$
Correct Answer:- Option-D
Question77:-As the scale parameter of normal curve increases, the distribution retains symmetry and becomes:

## A:-Flatter <br> --Peaked

B:-Peaked
C:-Neither 1 nor 2
D:-None of these
Correct Answer:- Option-A
Question78:-If $X$ and $Y$ are independent $N(0,1)$ random variates, then $P(X<Y)$ is :
A: $-\frac{1}{2}$
B:-0
C:-1.96
D:-1.65
Correct Answer:- Option-A
Question79:-The Normal curve has an area about ........within one unit of SD from mean:
A:-65\%
B:-68\%
C:-33\%
D:-67\%
Correct Answer:- Option-B
Question80:-The mgf of a random variable X is $\mathrm{M}(\mathrm{t})=\frac{1}{1-2 t},|\mathrm{t}|<\frac{1}{2}$. Then $\mathrm{E}(\mathrm{X})$ is :
A:-2
B:-6
C:-8
D:-4
Correct Answer:- Option-A
Question81:-The square of $t$ distribution is an $F$ distribution for:
A:-2 df
B:-1 df
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\left.-1 \quad n^{2}\right)
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$p^{2}$
$\frac{2}{3}$
12



$\frac{1}{2}$
96

38\%

C：－n df
D：－None of these
Correct Answer：－Option－B
Question82：－The ratio of two independent $\mathrm{N}(0,1)$ variates is a：
A：$-t_{1}$
B：$-t_{2}$
$\mathrm{C}:-t_{n}$
D：$-\chi^{2}$
Correct Answer：－Option－A
Question83：－If $T_{1}$ and $T_{2}$ are two unbiased estimates of parameter $\theta$ ，then $\left(2 T_{1}+5 T_{2}\right) /(7)$ is ：
A：－Unbiased for $\theta$
B：－Biased for $\theta$
C：－Consistent for $\theta$
D：－None of these
Correct Answer：－Option－A
Question84：－The random variable $X$ has mean 5 and variance 9 ．Then $\mathrm{P}[|\mathrm{X}-5|>4]$ is：
A：－＞$\frac{9}{16}$
B：－＞$\frac{4}{9}$
C：$-<\frac{9}{16}$
D：$-<\frac{4}{9}$
Correct Answer：－Option－C
Question85：－The statistical error associated to the statement＂An innocent person is proved as guilty＂is ：
A：－Type 1 error
B：－Type 2 error
C：－Power
D：－Critical region
Correct Answer：－Option－A
Question86：－To test $H_{0}: \mu=1$ against $H_{0}: \mu \neq 1$ based on large sample，the test statistic Z has a value 2 ．Then p －value associated to the test is：
A：－P $[|\mathrm{Z}|<2]$
B：－P［｜Z｜＞2］
C：－P［Z＜2］
D：－P［Z＞2］
Correct Answer：－Option－B
Question87：－Let X and Y be random variables with $\operatorname{Cov}(\mathrm{X}, \mathrm{Y})=-0.25$ ，then which of the following is true：
A：$-\operatorname{Var}(\mathrm{X}+\mathrm{Y})>\operatorname{Var}(\mathrm{X}-\mathrm{Y})$
B：$-\operatorname{Var}(\mathrm{X}+\mathrm{Y})<\operatorname{Var}(\mathrm{X}-\mathrm{Y})$
C：$-\operatorname{Var}(\mathrm{X}+\mathrm{Y})=\operatorname{Var}(\mathrm{X}-\mathrm{Y})$
D：－None of these
Correct Answer：－Option－B
Question88：－The degrees of freedom associated to $t$－test for the difference of the means of two samples having sizes $m, n$ based on large sample is：
A：－m＋n－1
B：－m＋n－mn
B：－m＋n－mn
C：－m＋n
D：－m＋n－2
Correct Answer：－Option－D
Question89：－If F follows $\mathrm{F}(7,8)$ ，then $1 / \mathrm{F}$ follows：
A：－F（7，8）
B：－$-\mathrm{F}(1,8)$
C：－F（7，1）
D：－$-(8,7)$
Correct Answer：－Option－D
Question90：－The distribution function $\mathrm{F}(\mathrm{x})$ of a random variable X lies between：
A：－0 and 1
B：－－1 and 1
C：－0 and $\infty$
D：－None of these
Correct Answer：－Option－A
Question91：－The probability mass function of a discrete random variable X is $\mathrm{f}(\mathrm{x})=\frac{x}{10}$ for $\mathrm{x}=1,2,3,4$ and 0 for other values of X ．Let $\mathrm{F}(\mathrm{x})$ denote the distribution function of X ．Then $\mathrm{F}(4)-\mathrm{F}(3)$ is：
A：$-\frac{4}{10}$
B：$-\frac{2}{10}$
C：$-\frac{3}{10}$
D：$-\frac{1}{10}$
Correct Answer：－Option－A
Question92：－let $X$ be a random variable with distribution function $F(x)$ ．The distribution function of $2 X+3$ is：
A：－F（x）
B：$-\mathrm{F}\left(\frac{x+3}{2}\right)$
C：$-\mathrm{F}(2 x+3)$
D：－F（ $\frac{x-3}{2}$ ）
Correct Answer：－Option－D
Question93：－A continuous random variable $X$ is symmetric about a real number $a(a \in R)$ if the distribution function $X$－a is same as the distribution function of：
A：－a－X
B：－X＋a
C：－－X－a
D：－－X＋a
Correct Answer：－Option－A
Question94：－Let X be a random variable with $\operatorname{pdf} \mathrm{f}(\mathrm{x})=\frac{e^{-|x|}}{2},-\infty<\mathrm{x}<\infty$ ．The median of the distribution is at：
A：－X＝1

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t Answer：－Option－B迤
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    :-The random variable \(X\) has mean 5 and variance 9 . Then \(\mathrm{P}[|\mathrm{X}-5|>4]\) is:
        \(\frac{4}{9}\)
    $$
<\frac{9}{16}
$$

        \(<\frac{1}{16}\)
    $$
:-<\frac{4}{9}
$$

        statistical error
    Option－A
nst $H_{0}: \mu \neq 1$ based on large sample，the test statistic Z has a value 2 ．Then p －value associated to the test is：

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#### Abstract

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－Option－D
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nction $\mathrm{F}(\mathrm{x})$ of a random variable X lies between：
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A：－＞$\frac{1}{16}$

：$:<\frac{9}{16}$
$\mathrm{D}:<-\frac{4}{-}$
er：－Option－B
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$\operatorname{Var}(X-Y)$
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B:-X=10
C:-X=0
D:-Any number greater than zero
Correct Answer:- Option-C
Question95:-Let X be a random variable for which $\mathrm{E}(\mathrm{X})$ exists and A is any real number. Then $\mathrm{E}|\mathrm{X}-\mathrm{A}|$ is minimum if:
A:-A=E(X)
B:-A=Med(X)
C:-A=Mod(X)
D:-None of these
Correct Answer:- Option-B
Question96:-The joint distribution function of $(\mathrm{X}, \mathrm{Y})$ is given by $\mathrm{F}(\mathrm{x}, \mathrm{y})=\left(1-e^{-x}\right)\left(1-e^{-y}\right), \mathrm{x}>0, \mathrm{y}>0$. The marginal distribution function of Y is:
A:- $\operatorname{Exp}(1)$
B: $-\operatorname{Exp}(2)$
C:-Gamma(2)
D:-None of these
Correct Answer:- Option-A
Question97:-The function $\mathrm{f}(\mathrm{x})=x^{2}, \mathrm{x} \in R$ is:
A:-Increasing
B:-Decreasing
C:-Neither increasing nor decreasing
D:-Constant
Correct Answer:- Option-C
Question98:- $\lim _{n \rightarrow \infty} \sum_{k=0}^{n} \frac{n^{k} e^{-n}}{k!}$ is:
A: $-\frac{1}{3}$
B: $-\frac{1}{5}$
C: $-\frac{1}{4}$
D: $-\frac{1}{2}$
Correct Answer:- Option-D
Question99:-Let $x_{1}, x_{2}, \ldots, x_{n}$ be n discrete values with corresponding frequencies $f_{1}, f_{2}, \ldots, f_{n}$. Also let $F_{1}, F_{2}, \ldots, F_{n}$ be the corresponding greater than cumulative frequencies. Then $\frac{\sum_{i=1}^{n} F_{i}}{N}$ gives:
A:--3 ${ }^{\text {rd }}$ quartile
B:-Median
C:-Mode
D:-Mean
Correct Answer:- Option-D
Question100:-According to Prof. Sturge's rule, the relation between the number of classes (k) and total number of observations in the data (N) is:
A:-k=1+3.322 $\log _{10} \mathrm{~N}$
B:-k=1+2.333 $\log _{10} \mathrm{~N}$
C:-k=1+2.333 $\log _{e} \mathrm{~N}$
D:-k=1+3.223 $\log _{e} N$
Correct Answer:- Option-A

