FINAL ANSWER KEY

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Question1:-Let X_1, X_2, ..., X_{81} be independent and identically distributed random variables each with expected value 2 and variance 4. What is $P(X_1 + X_2,+ ... +X_{81} > 216)$?

A:-0.0027

B:-0.4987

C:-0.00135

D:-0.4973

Correct Answer:- Option-C

Question2:-Which of the following is not a property (properties) of characteristic function φ?

(i) φ is continuous

(ii) $\varphi(0) = 0$

(iii) $\varphi(-t) = -\varphi(t)$

A:-(i) only

B:-(i) and (iii)

C:-(i) and (ii)

D:-(ii) and (iii)

Correct Answer:- Option-D

Question3:-Which of the following statements is/are true about convergence?

(i) $X_n \xrightarrow{a.s.} X \iff X_n \xrightarrow{p} X$

(ii) $X_n \xrightarrow{p} X \not\Rightarrow X_n - X_m \xrightarrow{p} 0$

(iii) $X_n \xrightarrow{p} X \Rightarrow X_n \xrightarrow{L} X$

A:-(ii) only

B:-(iii) only

C:-(i) and (iii)

D:-(i) only

Correct Answer:- Option-B

Question4:-The characteristic function of a random variable is given by

$$\varphi(t) = \frac{1}{\pi(1+t^2)}$$

Then the pdf of X is

A:-$e^{-|x|}$

B:-$e^{\frac{-|x|}{2}}$

C:-$e^{-2|x|}$

D:-None of these

Correct Answer:- Option-A

Question5:-If X is distributed as Poisson with parameter λ = 4.5 and K_r denotes the r^{th} cumulant of X, then

A:-$K_2 = 9$

B:-$K_3 = 2K_1$

C:-$K_2 - K_1 = 4.5$

D:-$K_2 - K_1 = 0$

Correct Answer:- Option-D

Question6:-Which of the following statements is/true about the power function of a test for the one parameter exponential family of distributions?

(i) The power function is continuous

(ii) The power function is differentiable

A:-Only (ii)

B:-(i) may be true, but not always

C:-Both (i) and (ii)

D:-None

Correct Answer:- Option-C

Question7:-Suppose that the moment generating function and expectation exist for a random variable X. When does the statement $M_X(t) \geq e^{t\,E(X)}$ hold good?

A:-for all X and for all t

B:-for all X > 0 and for all t

C:-for all X < 0 and for all t > 0

D:-None of these

Correct Answer:- Option-A

Question8:-The probability density function of a random variable X is given by $f(x)=\frac{1}{18\pi}e^{\frac{-(x^2-40x+400)}{18}}$, $-\infty < x < \infty$,
What is the value of P(X ≤23)?

A:-0.5123

B:-0.5

C:-0.8413

D:-0.3413

Correct Answer:- Option-C

Question9:-X_1, X_2 is a random sample of size 2 from a population with mean λ. $T_1=\frac{X_1+X_2}{2}$, $T_2=\frac{3X_1+2X_2}{5}$ and $T_3=\frac{2X_1-X_2}{3}$ are three estimators suggested for λ. Which among them is the most efficient?

A:-T_1

B:-T_2

C:-T_3

D:-All are equally efficient

Correct Answer:- Option-A

Question10:-Let us want to test H_0: $\theta = \theta_0$ against H_1: $\theta \neq \theta_0$ using likelihood ratio $l(\underline{x})$, where θ is a 3×1 vector. Then the asymptotic distribution of $-2\ln l(\underline{x})$ is:

A:-N(0, 1)

B:-χ^2(2)

C:-χ^2(1)

D:-χ^2(3)

Correct Answer:- Option-D

Question11:-Let T be a consistent estimator of θ. Then which of the following statements are true?
(i) e^T is a consistent estimator of e^θ
(ii) T^5 is not a consistent estimator of θ^5

A:-Only (i)

B:-Only (ii)

C:-Both (i) and (ii)

D:-Neither (i) nor (ii)

Correct Answer:- Option-A

Question12:-Which of the following statements is/are true?

A:-A randomized test function maps sample space on to {0, 1}

B:-A non-randomized test function maps sample space on to [0, 1]

C:-Randomized tests are particular cases of non-randomized tests

D:-None of these

Correct Answer:- Option-D

Question13:-Let T be the most powerful test of level 0.05 for testing H_0: $\theta=\theta_0$ against H_1: $\theta=\theta_1$ with power 0.8. Consider the test $T^* = 1 - T$ for testing H_0: $\theta=\theta_1$ against H_1: $\theta=\theta_0$. T^* will be the most powerful test at significance level.

A:-0.05

B:-0.20

C:-0.95

D:-0.80

Correct Answer:- Option-B

Question14:-0.6, 3.7, 0.9, 1.5, 1.2, 0.2, 3.2 is a random sample from U(0, θ)An estimate sufficient for θ is

A:-1.62

B:-3.7

C:-0

D:-0.2

Correct Answer:- Option-B

Question15:-If T^+ is the Wilcoxon signed rank test statistic for testing $H_0 : M = M_0$ (where M is the median of a population) based on a sample of size 48, then

A:-$T^+ \sim N(588, 9506)$

B:-$T^+ \sim N(588, 19012)$

C:-$T^+ \sim N(294, 19012)$

D:-$T^+ \sim N(294, 9506)$

Correct Answer:- Option-A

Question16:-Which of the following tests is used for testing goodness of fit?

A:-Chi square test

B:-Kolmogorov Smirnov test

C:-Both (1) and (2)

D:-None

Correct Answer:- Option-C

Question17:-Choose the most correct statement:

A:-The normal family is the conjugate prior for the normal family when the variance is known

B:-The gamma family is the conjugate prior for the normal family when the mean is unknown but the variance is known

C:-Both (1) and (2) are correct

D:-None of (1) and (2) are correct

Correct Answer:- Option-A

Question18:-Consider a population following normal distribution with mean μ and standard deviation 10. Then

A:-the hypothesis H_0: $\mu \neq 20$ is simple

B:-the hypothesis H_0: $\mu > 10$ is composite

C:-the hypothesis H_0: $\mu < 20$ is simple

D:-the hypothesis H_0: $\mu = 0$ is composite

Correct Answer:- Option-B

Question19:-Consider the following statements about Maximum Likelihood Estimators (MLE)
(i) MLEs are unique
(ii) MLEs are consistent
(iii) MLEs are always unbiased

Which among these is/are not a property (properties) of MLEs?

A:-(i) only

B:-Both (i) and (ii)

C:-(ii) only

D:-All are properties of MLEs

Correct Answer:-Question Cancelled

Question20:-$X_1, X_2, ..., X_n$ are iid as $N(\mu, 1)$. If a 95% confidence interval for μ is $(\bar{x} - 0.49, \bar{x} + 0.49)$, then n = _____.

A:-64

B:-16

C:-4

D:-9

Correct Answer:- Option-B

Question21:-Consider a population of size 1000 from which a sample of size 100 is to be taken. The precision of the systematic sample mean and simple random sample mean are equal if the intraclass correlation between the units of the

systematic sample is

A:- $\frac{100}{1000}$

B:- $\frac{100}{999}$

C:- $\frac{-1}{999}$

D:- $\frac{1}{1000}$

Correct Answer:- Option-C

Question22:-Let X_1, X_2, X_3 and X_4 be a random sample from a uniform $(\theta, 3\theta)$ distribution. Then the method of moments estimator of θ is

A:- $\frac{2}{3}\overline{X}$

B:- $\frac{3}{2}\overline{X}$

C:- $\overline{X}$

D:- $\frac{1}{2}\overline{X}$

Correct Answer:- Option-D

Question23:-In a Latin Square Design with 4 treatments, the degree of freedom for error sum of squares is

A:-3

B:-6

C:-9

D:-8

Correct Answer:- Option-B

Question24:-In a cluster sampling scheme with cluster size equal to 50 the range of variation of intra cluster correlation coefficient is

A:- -1 to 1

B:- $\frac{-1}{49}$ to 1

C:-0 to 1

D:--1 to $\frac{1}{49}$

Correct Answer:- Option-B

Question25:-Which of the following statements is/are true?
(i) Latin square design can be followed only if the number of treatments is more than 2.
(ii) In a randomized block design, number of replications of all the treatments should be equal.
(iii) In a completely randomized design, replication is not required.

A:-Both (i) and (ii)

B:-Both (ii) and (iii)

C:-Only (i)

D:-None is true

Correct Answer:- Option-A

Question26:-Local control is experimental design is meant to

A:-increase the efficiency of a design

B:-reduce the experimental error

C:-form homogeneous blocks

D:-all the above

Correct Answer:- Option-D

Question27:-In a randomized block design with 6 treatments and 5 blocks two of the observations are missing. The values of the missing observations are estimated from the known values and the analysis of variance is performed in the usual way. The degrees of freedom for the error sum of squares will be _____.

A:-18

B:-20

C:-19

D:-22

Correct Answer:- Option-A

Question28:-For a 2^2 factorial experiment with four replications, the responses for the treatments are $a_0b_0 = 20$, $a_1b_0 = 18$, $a_0b_1 = 24$, $a_1b_1 = 36$. The sum of squares for interaction AB is _____.

A:-6.125

B:-24.5

C:-49

D:-12.25

Correct Answer:- Option-D

Question29:-Which of the following statements is/are true?
(i) A balanced incomplete block design with 5 treatments and 4 blocks is not possible.
(ii) Cyclic design is a particular type of balanced incomplete block design.
(iii) The dual design of a balanced incomplete block design is also a balanced incomplete block design.

A:-(i) and (ii)

B:-(i) and (iii)

C:-(i) only

D:-(iii) only

Correct Answer:- Option-C

Question30:-In a ratio method of estimation procedure in simple random sampling, the population mean of the auxiliary characteristic X was found to be 100 and the covariance between $\hat{R}$ and the sample mean of X was found to be -25. Then the bias of $\hat{R}$ is:

A:--2.5

B:-2.5

C:--0.25

D:-0.25

Correct Answer:- Option-D

Question31:-A population consisting of 100 units was divided in to three strata. The first, second and third strata are of sizes 50, 30 and 20. The stratum variances are 1, 3 and 2 respectively. A sample of size 10 was drawn. The sample strata are of sizes 5, 3 and 2 respectively. Let $\overline{y}_{st}$ be the sample mean. If the sampling is with replacement, then V($\overline{y}_{st}$) is

A:-0.18

B:-18

C:-0.06

D:-6

Correct Answer:- Option-A

Question32:-Which of the following statements is/are true?
(i) In multiphase sampling it is not necessary to have a complete sampling frame.
(ii) The multistage sampling can be expected to be more efficient than single stage random sampling from the variability point of view.
(iii) The multistage sampling can be expected to be more efficient than cluster sampling from the cost and operational point of view.

A:-(i) only

B:-(ii) and (iii)

C:-All are true

D:-None is true

Correct Answer:- Option-D

Question33:-Given below is an anova table:

Source of Variation	Degrees of Freedom	Sum of Squares	Mean Squares	F
Treatments	7		8.5	
Replication		45		K
Error		42		
Total	31			

What is the value of K?

A:-7.5

B:-4.25

C:-6.25

D:-Cannot be computed from the given data

Correct Answer:- Option-A

Question34:-Choose the correct statement:

A:-In probability sampling, each unit of the population has the same probability of being included in the sample

B:-In judgement sampling, it is not possible to compute the degree of precision of estimates from sample values

C:-Lottery method is one of the methods of purposive sampling

D:-Prejudice and bias of the samples are usually absent in non-probability sampling

Correct Answer:- Option-B

Question35:-Which of the following statements is wrong?

A:-Sampling error can be reduced by increasing sample size

B:-Non sampling error is likely to increase with increase in sample size

C:-A systematic sample is usually free from sampling error

D:-Failure to measure some of the units in the selected sample is a non - sampling error

Correct Answer:- Option-C

Question36:-Let X follows a Poisson distribution with parameter λ. Then its moment generating function $M_X(t)$ is

A:-$e^{\lambda\left(e^{t}-1\right)}$

B:-$e^{-\lambda\left(e^{t}-1\right)}$

C:-$e^{\lambda\left(e^{-t}-1\right)}$

D:-$e^{\lambda\left(e^{t}+1\right)}$

Correct Answer:- Option-A

Question37:-Let X denotes the number of failures preceding the first success in a sequence of Bernoulli trails. Then X follows

A:-Binomial distribution

B:-Hyper Geometric distribution

C:-Geometric distribution

D:-Poisson distribution

Correct Answer:- Option-C

Question38:-Let *X* follows a Normal distribution with mean μ and variance σ^2. Then mean deviation about the mean is

A:-$\sqrt{\frac{\pi}{2}}\sigma$

B:-$\sqrt{\pi}\sigma$

C:-$\sqrt{\frac{2}{\pi}}\sigma$

D:-$\sqrt{2}\sigma$

Correct Answer:- Option-C

Question39:-If log(*X*) follows a normal distribution, then *X* follows:

A:-Normal distribution

B:-Exponential distribution

C:-Double exponential distribution

D:-Log-Normal distribution

Correct Answer:- Option-D

Question40:-The probability density function of an exponential distribution with mean λ is given by

A:-$f(x)=\lambda e^{-\lambda x}, \ x\geq 0, \lambda>0$

B:-$f(x)=\frac{1}{\lambda}e^{-\frac{1}{\lambda}x}, \ x\geq 0, \lambda>0$

C:-$f(x)=\frac{1}{\lambda}e^{-\lambda x}, \ x\geq 0, \lambda>0$

D:-$f(x)=\lambda e^{-\frac{1}{\lambda}x}, \ x\geq 0, \lambda>0$

Correct Answer:- Option-B

Question41:-Let X follows a standard normal distribution and Y follows a chi-square distribution with n degrees of freedom. Also assume X and Y are

independent, then $T = \frac{X}{\sqrt{\frac{Y}{n}}}$ follows

A:-t distribution with n degrees of freedom

B:-t distribution with n − 1 degrees of freedom

C:-Chi-square distribution with n degrees of freedom

D:-Chi-square distribution with n − 1 degrees of freedom

Correct Answer:- Option-A

Question42:-Let X_1, X_2, ..., X_n are random sample of size n taken from uniform distribution over the interval (0, θ). Then the mean of Y = max (X_1, X_2, ..., X_n) is

A:-$n\theta$

B:-$\frac{\theta}{n}$

C:-$\frac{\theta}{n+1}$

D:-$\frac{n}{n+1}\theta$

Correct Answer:- Option-D

Question43:-Let X follows a multivariate normal distribution $N_p(\mu,\Sigma)$. Then its moment generating function is

A:-EXP $\{t'\mu+\frac{1}{2}t'\sum t\}$

B:-EXP $\{\frac{1}{2}t'\sum t\}$

C:-EXP $\{t'\mu+t'\sum t\}$

D:-EXP $\{t'\mu\}$

Correct Answer:- Option-A

Question44:-
Let X follows a multivariate normal distribution in *p* dimension $N_p(\mu,\Sigma)$. Let C is a m ×p matrix with rank m, then CX follows:

A:-$N_p(C\mu, C\Sigma C')$

B:-$\mathrm{N}_m(C\mu, C\Sigma C')$

C:-$\mathrm{N}_p(C\mu, \Sigma)$

D:-$\mathrm{N}_m(C\mu, \Sigma)$

Correct Answer:- Option-B

Question45:-
Let X follows a multivariate normal distribution in p dimension $\mathrm{N}_p(\mu,\Sigma)$, then the distribution of $(X-\mu)'\Sigma^{-1}(X-\mu)$ is

A:-$\mathrm{N}_p(\mu,\mathrm{I})$

B:-$\mathrm{N}_p(0,\mathrm{I})$

C:-$\mathrm{N}_p(\mu,\Sigma)$

D:-Chi-square distribution with p degrees of freedom

Correct Answer:- Option-D

Question46:-Let $X = (X_1, X_2, X_3)$ follows N_3 (μ, Σ), where $\mu=\begin{pmatrix}3\\10\\8\end{pmatrix}, \Sigma=\begin{pmatrix}1&3&1\\3&16&2\\1&2&4\end{pmatrix}$. Then the probability distribution of X_1 is

A:-$N(3, 1)$

B:-$N(10, 16)$

C:-$N(8, 4)$

D:-$N(3, 21)$

Correct Answer:- Option-A

Question47:-Let $X^{(1)}$, $X^{(2)}$, ,..., $X^{(n)}$ are vector of random sample of size n taken from a multivariate normal distribution with p dimension $\mathrm{N}_p(\mu, \Sigma)$. Then the probability distribution of sample variance covariance matrix is known as

A:-Chi-square distribution

B:-t-distribution

C:-F-distribution

D:-Wishart distribution

Correct Answer:- Option-D

Question48:-The Hotelling's T^2 statistics is used to test

A:-The specific mean of a univariate normal population

B:-The specific mean of a multivariate normal population

C:-Equality of means of two multivariate normal populations

D:-To test the equality of variance of two univariate normal populations

Correct Answer:-Question Cancelled

Question49:-To reduce the number of variables under study the technique used is

A:-Principal component analysis

B:-Factor analysis

C:-Cluster analysis

D:-Classification technique

Correct Answer:-Question Cancelled

Question50:-Let X is a random variables assume non-negative integral values. Then P(s), the probability generating function of X is

A:-E(X^s)

B:-E(e^{tX})

C:-E(S^X)

D:-E(e^{itS})

Correct Answer:- Option-C

Question51:-The stochastic process $\{x_n, n= 0, 1, 2,...\}$ is such that if for j, k, j_1 ,..., $j_{n-1} \varepsilon N$, Pr $\{X_n = k/X_{n-1} = j, X_{n-2} = j_1 ,..., X_0 = j_{n-1}\} = Pr\{X_{n=k} / X_{n-1} = j\}$ Then $\{X_n, n = 0, 1, 2,.....\}$ is called

A:-Poisson Processes

B:-Markov chain

C:-Random walk

D:-None of the above

Correct Answer:- Option-B

Question52:-Difference of two independent Poisson process is

A:-Not a Poisson process

B:-a Poisson process

C:-Cumulative Poisson process

D:-Poisson cluster process

Correct Answer:- Option-A

Question53:-Suppose that $\{X_n\}$ is a martingale and that E(X_n^2) is bounded uniformly in n, then X_n converges to a random variable with probability one. This theorem is known as

A:-Martingale central limit theorem

B:-Optional stopping theorem

C:-Martingale converges theorem

D:-None of the above

Correct Answer:- Option-C

Question54:-A continuous distribution with memoryless property is

A:-Normal distribution

B:-Double exponential distribution

C:-Logistic distribution

D:-Exponential distribution

Correct Answer:- Option-D

Question55:-If state *j* is persistent, then for every state *k* that can be reached from state *j*, then probability of returning to state *j* once state *k* is reached is

A:-0

B:-1

C:-$\frac{1}{2}$

D:-none of the above

Correct Answer:- Option-B

Question56:-Consider the process:
$X(t) = A\ cos(wt) + B\ sin(wt)$, where A, B are uncorrelated random variables with mean zero and variance one and w is a positive constant. Then the process is

A:-Covariance stationary

B:-Poisson process

C:-Compound Poisson process

D:-None of the above

Correct Answer:- Option-A

Question57:-Regression is

A:-The best predictor

B:-Correlation coefficient

C:-Method of curve fitting

D:-None of the above

Correct Answer:- Option-A

Question58:-In the general linear model $\underline{Y} = X\underline{\beta} + \underline{U}$, with $E(\underline{U}) = 0$ and $D(\underline{Y}) = \underline{\sigma^2} I$. Then the BLUE of $\underline{\beta}$ is

A:-$(X'X)^{-1}X'\underline{U}$

B:-$(X'X)^{-1}$

C:-$(X'X)^{-1}X'Y$

D:-None of the above

Correct Answer:- Option-C

Question59:-Consider the general regression model $\underline{Y} = X\underline{\beta} + \underline{U}$, with $E(\underline{U}) = 0$ and $E(\underline{U}\ \underline{U}') = \sigma^2\Omega$. Then variance of the least square estimator of f $\underline{\beta}$, is given by

A:-$\sigma^2(X'X)^{-1}$

B:-$\sigma^2(X'\Omega^{-1}X)^{-1}$

C:-$\sigma^2\Omega$

D:-None of the above

Correct Answer:-Question Cancelled

Question60:-In the general linear model $\underline{Y} = X\underline{\beta} + \underline{U}$, where $\underline{U} \sim N_n(\underline{0}, \sigma^2 I_n)$and rank $(X) = k(<n)$. Then an unbiased estimator for σ^2 is

A:-$\underline{e}'\underline{e}$

B:-$\frac{\underline{e}'\underline{e}}{k}$

C:-$\frac{\underline{e}'\underline{e}}{n-k}$

D:-None of the above

Correct Answer:- Option-C

Question61:-Consider the general linear model $\underline{Y} = X\underline{\beta} + \underline{U}$, where $\underline{U}$ follows a distribution with mean $\underline{0}$ and dispersion matrix $\sigma^2 I$. That is $V(U_i) = \sigma^2$. *for all i*. This property is known as

A:-Homoscedasticity

B:-Heteroscedasticity

C:-Multicollinearity

D:-Auto correlation

Correct Answer:- Option-A

Question62:-Consider the general linear model $\underline{Y} = X\underline{\beta} + \underline{U}$, with $E(U_i) = 0$, *for all i* and $E(U_iU_j) \neq 0$ *for* $i \neq j$, this problem is said to be

A:-Multicollinearity

B:-Heteroscedasticity

C:-Auto correlation

D:-None of the above

Correct Answer:- Option-C

Question63:-Regression model with binary response is known as

A:-Non linear regression

B:-Stepwise regression

C:-Poisson regression

D:-Logistic regression

Correct Answer:- Option-D

Question64:-$\int_0^\infty e^{-mx} x^{p-1} dx$, where $m, p > 0$, is equal to

A:-m^P

B:-$m\lceil(p)$

C:-$\frac{m^P}{\lceil(p)}$

D:-$\frac{\lceil(p)}{m^P}$

Correct Answer:- Option-D

Question65:-The characteristic roots of an idempotent matrix is:

A:-zero only

B:-one only

C:-zero and one only

D:-None of the above

Correct Answer:- Option-C

Question66:-Rank of a matrix A is defined as

A:-number of linearly independent rows of A

B:-number of columns of A

C:-number of rows of A

D:-none of the above

Correct Answer:- Option-A

Question67:-A square matrix A is said to be idempotent if

A:-$A^2 = 0$

B:-A^3 = A

C:-A^2 = A

D:-None of the above

Correct Answer:- Option-C

Question68:-The system of equations $A\underline{X} = \underline{b}$ is consistent if

A:-Matrix A is not of full rank

B:-Rank (A) = Rank (A: $\underline{b}$)

C:-Matrix A is singular

D:-None of the above

Correct Answer:- Option-B

Question69:-If G is the g-inverse of the matrix A, then

A:-GA = A

B:-AG = A

C:-AGA = A

D:-AGA = G

Correct Answer:- Option-C

Question70:-If $\bar{A}$ is the g-inverse of A, then which of the following is true

A:-Rank(A) = Rank(A $\bar{A}$)

B:-Rank(A) = Trace ($\bar{A}$ A)

C:-Rank($\bar{A}$ A) = Trace ($\bar{A}$ A)

D:-All the above

Correct Answer:- Option-D

Question71:-Identify the most flexible instructional and assessment tool adaptable to diverse curricula student age and administrative context

A:-Evaluation

B:-Self-assessment

C:-Portfolio

D:-Absolute Grading

Correct Answer:- Option-C

Question72:-What is the primary goal of using case studies in teaching social Science?

A:-To provide historical facts

B:-To Promote rote learning

C:-To develop critical thinking and problem-solving skills.

D:- To focus on development aspects

Correct Answer:- Option-C

Question73:-A teacher wants to evaluate student's understanding of the concept of democracy in a social science classroom. Which one is the appropriate assessment strategy for evaluating their ability to apply this concept to real life situation

A:-Essay on the history of democracy

B:-Multiple choice questions on the definition of democracy

C:-Group discussion on the role of citizens in a democratic society

D:-Project on designing a democratic system for a moc village

Correct Answer:- Option-D

Question74:-What is the primary goal of ethnographic research?

A:-To generalize findings to a wider population

B:-To describe events with in a specific group

C:-To test a Hypothesis

D:-To collect quantitative data

Correct Answer:- Option-B

Question75:-Select the main advantage of using stratified sampling

A:-It makes the sample more representative of the population

B:-It reduces sample size

C:-It eliminates sampling error completely

D:-It simplifies data analysis

Correct Answer:- Option-A

Question76:-Which statement best describes the teacher’s role in the Problem-Solving Method?

A:- A teacher solves all problems for students

B:-The teacher guides and facilitates student-led problem solving

C:-The teacher remains uninvolved

D:-The teacher assigns only textbook exercises

Correct Answer:- Option-B

Question77:-Which experience is considered the best type of educative experience?

A:-Vicarious

B:-Virtual experience

C:-Direct Experience

D:-Theoretical experience

Correct Answer:- Option-C

Question78:-Action Research is Primarily used in

A:-Experimental laboratory studies

B:-Real situation to solve practical problems

C:-Theoretical simulation

D:-Contrived academic exercises

Correct Answer:- Option-B

Question79:-In field research, ‘participant observation‘ means

A:-Observing without interacting

B:-Conducting telephone surveys

C:-Observing while taking part in the activity

D:-Mass observation

Correct Answer:- Option-C

Question80:-Which of the following is a teacher related factor affecting teaching?

A:-Classroom environment

B:-Student’s home environment

C:-School infrastructure

D:-Teacher’s Subject knowledge

Correct Answer:- Option-D

Question81:-Which of the following features of the Indian Constitution reflects the influence of the Government of India Act, 1935?

1. Bicameral legislature
2. The Office of the Governor
3. Federal structure with a strong centre
4. Judicial review

A:-1 only

B:-1, 2 and 4 only

C:-1, 2 & 3 only

D:-All of the above

Correct Answer:- Option-C

Question82:-Which Constitutional Amendment Act allows the same person to be appointed as Governor for two or more states, as well as establish a common High Court for two or more states?

A:-7th Constitutional Amendment Act of 1956

B:-11th Constitutional Amendment Act of 1961

C:-42nd Constitutional Amendment Act of 1976

D:-70th Constitutional Amendment Act of 1991

Correct Answer:- Option-A

Question83:-The Rights of Persons with Disabilities Act, 2016, recognises how many categories of disabilities?

A:-7

B:-14

C:-21

D:-19

Correct Answer:- Option-C

Question84:-Match the following:

a. Doctrine of Severability	1. Laws inconsistent with Fundamental Rights become inactive until amendment
b. Doctrine of Colourable Legislation	2. Only the aggrieved person can approach the court
c. Doctrine of Eclipse	3. Partial invalidity of laws inconsistent with Fundamental Rights
d. Doctrine of Locus Stand	4. What cannot be done directly cannot be done indirectly

A:-a-2, b-1, c-3, d-4

B:-a-3. b-4, c-1, d-2

C:-a-1, b-4, c-3, d-2

D:-a-1, b-2, c-3, d-4

Correct Answer:- Option-B

Question85:-Under the Wildlife (Protection) Act, 1972, which authority primarily has the power to declare any area a sanctuary?

A:-Central Government

B:-State Government

C:-Indian Parliament

D:-National Board for Wildlife

Correct Answer:- Option-B

Question86:-Which among the following statements is incorrect?

1. Certiorari refers to a writ by which a higher court reviews a lower court's decision
2. In the 2017 K.S. Puttaswamy case, Supreme Court of India upheld the right to privacy as a fundamental right
3. Under Indian Constitution, freedom of speech and expression is a fundamental right guaranteed to both citizens and non-citizens in India
4. Article 39(b) of Indian Constitution refers to ownership and control of material resources of the community

A:-1 and 2 only

B:-3 and 4 only

C:-1 only

D:-3 only

Correct Answer:- Option-D

Question87:-Match the following

a.	Article 280	1.	Comptroller and Auditor General of India
b.	Article 324	2.	Public Service Commissions
c.	Article 320	3.	Election Commission of India
d.	Article 148	4.	Finance Commission

A:-a-4, b-3, c-2, d-1

B:-a-2, b-4, c-1, d-3

C:-a-3, b-4, c-2, d-1

D:-a-1, b-2, c-3, d-4

Correct Answer:- Option-A

Question88:-Identify the incorrect statement among the following

A:-Janani Suraksha Yojana (JSY) primarily aims to promote institutional deliveries

B:-Pradhan Mantri Matru Vandana Yojana (PMMVY) provides maternity benefits for the first two live births, provided the second child is a girl

C:-Pradhan Mantri Surakshit Matritva Abhiyan (PMSMA) was previously known as the Indira Gandhi Matritva Sahyog Yojana

D:-Surakshit Matritva Aashwasan (SUMAN) Yojana provides free healthcare services to pregnant women and newborns

Correct Answer:- Option-C

Question89:-Article 131 of the Constitution of India refers to:

A:-Jurisdiction of the Supreme Court of India over inter-state disputes

B:-President of India can establish Inter-State Councils

C:-President’s power to promulgate ordinances during the recess of Parliament

D:-Allows Supreme Court to review its own judgments or orders

Correct Answer:- Option-A

Question90:-Match the following schemes and beneficiaries:

a.	Stand-Up India scheme	1.	Micro and Small Enterprises
b.	Deendayal Antyodaya Yojana	2.	Street vendors
c.	Pradhan Mantri Mudra Yojana	3.	SC/ST and Women entrepreneurs
d.	PM SVANidhi Scheme	4.	Urban poor

A:-a-1, b-3, c-2, d-4

B:-a-3, b-4, c-2, d-1

C:-a-4, b-3, c-1, d-2

D:-a-3, b-4, c-1, d-2

Correct Answer:- Option-D

Question91:-Which one of the statements is true with reference to *Nizhalthankals* founded by Vaikunda Swamikal?

(i) An institution to feed the poor and the hungry

(ii) An institution for the cause of Dharma Paripalanam

(iii) An institution for worship

A:-Only (i)

B:-Only (iii)

C:-Only (ii & iii)

D:-All of the above

Correct Answer:- Option-D

Question92:-*Sadhujan Dootan* a magazine,which criticized the evils of caste system was started by

A:-Ayyankali

B:-Poikayil Yohannan

C:-Pampadi John Joseph

D:-K P Vallon

Correct Answer:- Option-C

Question93:-"To walk through the public road is one that even dogs and pigs enjoy everywhere without having to offer any satyagraha at all" Name the person who made this statement

A:-T K Madhavan

B:-Kumaran Asan

C:- Dr. Palpu

D:-Ayyankali

Correct Answer:- Option-C

Question94:-The author of *Atmahuti*, a work that attacked the dowry system among Nambutiris was

A:-V.T. Bhattathiripad

B:-M.P Bhattathiripad

C:-Balamani Amma

D:-M.B. Nambutiripad

Correct Answer:- Option-D

Question95:-The Missionary Society that started the Fort Girls' Mission School in 1864 in Trivandrum

A:-CEZMS

B:-LMS

C:-CMS

D:-BEMS

Correct Answer:-Question Cancelled

Question96:-The Newspaper that published for the first time Asan's *Veena Poovu*

A:-Vivekodayam

B:-Mithavadi

C:-Mathrubhumi

D:-Bhashaposhini

Correct Answer:- Option-B

Question97:-Which of the following statements are true regarding Vaikom satyagraha?

(i) It was part of the movement for civic rights for freedom to walk through roads surrounding temples

(ii) It was a movement launched for entry to Mahadeva temple at Vaikom

(iii) It was an anti — untouchability movement supported by Gandhiji

(iv) It was led by T K Madhavan

A:-Only (i)

B:-Only (ii)

C:-Only (i, iii & iv)

D:-Only (ii, iii & iv)

Correct Answer:- Option-C

Question98:-The first woman advocate of Tiruvitamkur was

A:-Accamma Cherian

B:-Anna Chandi

C:-Ammu Swaminathan

D:-Mary Poonen Lukose

Correct Answer:- Option-B

Question99:-*Sahitya Manjari* was the work of

A:-P. Kunhiraman Nair

B:-G. Sankara Kurup

C:-Changampuzha Krishna Pillai

D:-Vallathol Narayana Menon

Correct Answer:- Option-D

Question100:-Name the personality who suggested the name Manorama for the Malayala Manorama paper

A:-Mar Devanious

B:-Sreemoolam Thirunal

C:-Kerala Varma Valiya Koyi Thampuran

D:-Kandathil Varghese Mappilla

Correct Answer:- Option-C