

Exam Name : APDCL_Assistant Accounts Officer_Statistics

Total Questions : 100

Description : Important Examination Instructions

1. Each question will carry 1 (One) Mark for correct answer.
2. There will be a negative marking of 0.25 (one-fourth) marks for wrong answer
3. Do not use the alt-tab, mouse or any other device to shift from examination screen to any other screen or do not try to open any other application while attempting the examination. Doing so may result in discontinuation of examination and your examination will be considered as null and void. **Attempting to close the browser repeatedly will lock the exam.**

How to use the system:

1. **How to start the test:** You can start the test by clicking the Declaration Check box and then 'I am ready to begin button ' .
 2. **How to change the question:** For the move to the next question you have to click on the 'Save And Next' button the same as for move to the back, click on the 'Previous' button.
 3. **How to answer a question:** You can select any answer by clicking on the button displayed just before the answers. You have to finally click the button - Save and Next - to save your answer and move to the next question. In Exam Sections, the Red Circle corresponding to this question turns Green. You can go to any section / any question number by clicking the relevant control.
 4. **How to skip the question:** You can click the " Next Question" control to move on the next question
 5. **How to mark a question for review:** If you want to review any question later, you have to click the "Review" checkbox. This answer will be marked for review.
 6. **How to Submit your test:** By clicking On last question and Submit Test button one popup window display asking for "Are you sure, you want to Submit your test ?" You have to click on "YES" to submit your test.
- Circle symbols displayed at the bottom of the screen:
 - Red Color: Current Question.
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 - Blue Color: Attempted and Reviewed Question.
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Q.1

The probability of Type 1 error is referred as?

(A) $1 - \alpha$

(B) α

(C) β

(D) $1 - \beta$

Marks 1

Question ID:
2706

No	Options Details	Correct Option
1	A	
2	B	
3	C	✓
4	D	

Q.2 Alternative Hypothesis is also called as?

Marks 1

Question ID:
2707

No	Options Details	Correct Option
1	Composite hypothesis	
2	Research Hypothesis	✓
3	Simple Hypothesis	
4	Null Hypothesis	

Q.3
Type 1 error occurs when?

- (A) We reject H_0 if it is True (B) We reject H_0 if it is False
(C) We accept H_0 if it is True (D) We accept H_0 if it is False

Marks 1

Question ID:
2708

No	Options Details	Correct Option
1	A	✓
2	B	
3	C	
4	D	

Q.4 What is the assumption made for performing the hypothesis test with T distribution?

Marks 1

Question ID:
2709

No	Options Details	Correct Option
1	the distribution is non-symmetric	
2	the distribution has more than one modal class	
3	the distribution has a constant variance	
4	the distribution follows a normal distribution	✓

Q.5 The Test Statistic for a Hypothesis testing is given by the formula

Marks 1

Question ID:
2710

No	Options Details	Correct Option
1	Sample-Population/Standard Error	
2	(Sample statistic-Parameter)/Standard Error	✓
3	(Sample mean-Population mean)/Population standard deviation	
4	Statistic-E(statistic)/Variance	

Q.6 A T-test sample has 7 pairs of samples. The distribution should contain

Marks 1

Question ID:
2711

No	Options Details	Correct Option
1	16 degrees of freedom	
2	15 degrees of freedom	
3	5 degrees of freedom	
4	6 degrees of freedom	✓

Q.7 Which of the following statements is correct?

Marks 1

Question ID:
2712

No	Options Details	Correct Option
1	Systematic sample is superior than stratified sample	✓
2	Simple random sample is inferior that systematic sample	
3	Stratified sample is superior than Systematic sample	
4	Systematic sample is inferior than stratified sample	

Q.8 What is the mean of a Chi Square distribution with 6 degrees of freedom?

Marks 1

Question ID:
2713

No	Options Details	Correct Option
1	4	
2	12	
3	6	✓
4	8	

Q.9 Which of the following distributions is used to compare two variances?

Marks 1

Question ID:
2714

No	Options Details	Correct Option
1	t- Distribution	
2	F - Distribution	✓
3	Normal Distribution	
4	Poisson Distribution	

Q.10 In Normal distribution, the highest value of ordinate occurs at

Marks 1

Question ID:
2715

No	Options Details	Correct Option
1	Mean	✓
2	Variance	
3	Extremes	
4	Same value occurs at all points	

Q.11 Skewness of Normal distribution is

Marks 1

Question ID:
2716

No	Options Details	Correct Option
1	Negative	
2	Positive	
3	0	✓
4	Undefined	

Q.12

Variance of a constant 'a' is

(A) 0

(B) a

(C) $a/2$

(D) 1

Marks 1

Question ID:
2717

No	Options Details	Correct Option
1	A	✓
2	B	
3	C	
4	D	

Q.13

A population contains N items out of which n items are selected with replacement. Find the probability of the sample being selected.

(A) $1/N$

(B) $1/n^N$

(C) $1/{}^N C_n$

(D) $1/N^n$

Marks 1

Question ID:
2718

No	Options Details	Correct Option
1	A	
2	B	
3	C	
4	D	✓

Q.14

A sample was formed consisting of 8 students from a total of 56 students for certain task. Find the sampling fraction of the population of students.

(A) $1/7$

(B) 7

(C) 49

(D) $1/49$

Marks 1

Question ID:
2719

No	Options Details	Correct Option
1	A	✓
2	B	
3	C	
4	D	

Q.15 If the distribution of sample and population changes then the mean of Sampling distribution must be equal to

Marks 1

Question ID:
2720

No	Options Details	Correct Option
1	standard deviation of population	
2	variance of population	
3	sample of population	
4	mean of population	✓

Q.16 .
In the regression equation $Y = 21 - 3X$, the slope is

- (A) 21 (B) 3
(C) -21 (D) -3

Marks 1

Question ID:
2721

No	Options Details	Correct Option
1	A	
2	B	
3	C	
4	D	✓

Q.17 .
If r is the simple correlation coefficient, the quantity $1 - r^2$ is known as

- (A) Coefficient of determination (B) Coefficient of non-determination
(C) Coefficient of alienation (D) Multiple correlation

Marks 1

Question ID:
2722

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

Q.21 Find the number of ways of arranging the letters of the words DANGER, so that no vowel occupies odd place.

Marks 1

Question ID:
2726

No	Options Details	Correct Option
1	36	
2	48	
3	144	✓
4	96	

Q.22

If 40% of boys opted for maths and 60% of girls opted for maths, then what is the probability that maths is chosen if half of the class's population is girls?

- (A) 0.5 (B) 0.6
(C) 0.7 (D) 0.4

Marks 1

Question ID:
2727

No	Options Details	Correct Option
1	A	✓
2	B	
3	C	
4	D	

Q.23

A fair coin is tossed thrice, what is the probability of getting all 3 same outcomes?

- (A) $\frac{3}{4}$ (B) $\frac{1}{4}$
(C) $\frac{1}{2}$ (D) $\frac{1}{6}$

Marks 1

Question ID:
2728

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

Q.27 _____ are used when you want to visually examine the relationship between two quantitative variables.

Marks 1

Question ID:
2732

No	Options Details	Correct Option
1	Bar graphs	
2	Pie graphs	
3	Line graphs	
4	Scatterplots	✓

Q.28 .
What is the median of the following set of scores?

18, 6, 12, 10, 14 ?

(A) 10

(B) 14

(C) 18

(D) 12

Marks 1

Question ID:
2733

No	Options Details	Correct Option
1	A	
2	B	
3	C	
4	D	✓

Q.29 In a distribution of 10,20,30,40,50, the mean is 30. The sum of deviation from mean will be

Marks 1

Question ID:
2734

No	Options Details	Correct Option
1	60	
2	30	
3	0	✓
4	15	

Q.30 Which of the given measures are based on every item of the series?

Marks 1

Question ID:
2735

No	Options Details	Correct Option
1	Range	
2	Standard deviation	✓
3	Quartile deviation	
4	Percentile	

Q.31 A contractor employs 20 male, 15 female and 5 children in his factory. Male wages are Rs.10 per day, female Rs.8 per day, and children Rs.3 per day. The weighted of wages paid per day will be

Marks 1

Question ID:
2736

No	Options Details	Correct Option
1	3.6	
2	8.3	✓
3	9.4	
4	10.5	

Q.32

Coefficient of Variation of the team A is 12% and Coefficient of Variation of the team B is 34%, which team is less consistent?

(A) Team A

(B) Team B

(C) Both

(D) Neither A nor B

Marks 1

Question ID:
2737

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

Q.39

Chi square variate is the square of

(A) t-variate

(B) F-variate

(C) β -variate

(D) Standard normal variate

Marks 1

Question ID:
2744

No	Options Details	Correct Option
1	A	
2	B	
3	C	
4	D	✓

Q.40

Sign test is a test for

Marks 1

Question ID:
2745

No	Options Details	Correct Option
1	symmetry	✓
2	randomness	
3	correlation	
4	association	

Q.41

A Type II error is also known as a

Marks 1

Question ID:
2746

No	Options Details	Correct Option
1	False positive	
2	False negative	✓
3	Double negative	
4	Positive negative	

Q.42

If an estimator T_n of population parameter θ converges in probability to θ as n tends to infinity then T_n is said to be

- (A) Unbiased (B) efficient
(C) consistent (D) sufficient

Marks 1

Question ID:
2747

No	Options Details	Correct Option
1	A	
2	B	
3	C	✓
4	D	

Q.43

crude rate of natural increase =

Marks 1

Question ID:
2748

No	Options Details	Correct Option
1	CBR-CDR	✓
2	CDR-CBR	
3	GRRR-GFR	
4	GFR-GRR	

Q.44

Population P_t at any time =

- (A) $(B - D) + (I - E)$ (B) $P_0 + (B - D)$
(C) $P_0 + (B - D) + (I - E)$ (D) $P_0 + (D - B) + (E - I)$

Marks 1

Question ID:
2749

No	Options Details	Correct Option
1	A	
2	B	
3	C	✓
4	D	

Q.45 Which one of the following is correct

Marks 1

Question ID:
2750

No	Options Details	Correct Option
1	0	✓
2	0	
3	0	
4	0	

Q.46 Which method is not suitable for comparing the mortality in two places or same place in two periods.

Marks 1

Question ID:
2751

No	Options Details	Correct Option
1	CBR	
2	CDR	✓
3	STDR	
4	ASFR	

Q.47

Testing of hypotheses $H_0 : \mu = 65$ vs. $H_1 : \mu \neq 65$, is a _____ test.

- (A) One sided left tailed test (B) One sided right tailed test
(C) Two tailed test (D) F-test

Marks 1

Question ID:
2752

No	Options Details	Correct Option
1	A	
2	B	
3	C	✓
4	D	

Q.48 Incomplete 3 way classified data is the data for

Marks 1

Question ID:
2753

No	Options Details	Correct Option
1	CRD	
2	RBD	
3	LSD	✓
4	IBD	

Q.49 Local control not used in

Marks 1

Question ID:
2754

No	Options Details	Correct Option
1	RBD	
2	LSD	
3	CRD	✓
4	Research Design	

Q.50

Error in RBD

(A) $(t-1)(r-1)$

(B) $(n-t)$

(C) $(m-1)(m-2)$

(D) $t-1(r-1)-1$

Marks 1

Question ID:
2755

No	Options Details	Correct Option
1	A	✓
2	B	
3	C	
4	D	

Q.51 What are the tabs that appear at the bottom of each workbook called?

Marks 1

Question ID:
2756

No	Options Details	Correct Option
1	Reference tabs	
2	Position tabs	
3	Location tabs	
4	Sheet tabs	✓

Q.52 When you insert an Excel file into a Word document, the data are

Marks 1

Question ID:
2757

No	Options Details	Correct Option
1	Hyperlinked	
2	Placed in a word table	✓
3	Linked	
4	Embedded	

Q.53 You can use the formula palette to

Marks 1

Question ID:
2758

No	Options Details	Correct Option
1	format cells containing numbers	
2	create and edit formula containing functions	✓
3	enter assumptions data	
4	copy a range of cells	

Q.54 Tab scroll buttons are place on Excel screen

Marks 1

Question ID:
2759

No	Options Details	Correct Option
1	towards the bottom right corner	
2	towards the bottom left corner	✓
3	towards the top right corner	
4	towards the top left corner	

Q.55 Each excel file is a workbook that contains different sheets. Which of the following can not be a sheet in workbook?

Marks 1

Question ID:
2760

No	Options Details	Correct Option
1	Work sheet	
2	Chart Sheet	
3	Module sheet	
4	Data sheet	✓

Q.56 How can you update the values of formula cells if Auto Calculate mode of Excel is disabled?

Marks 1

Question ID:
2761

No	Options Details	Correct Option
1	F8	
2	F9	✓
3	F10	
4	F11	

Q.57 By default Excel provides 3 worksheets. You need only two of them, how will you delete the third one?

Marks 1

Question ID:
2762

No	Options Details	Correct Option
1	Right click on Sheet Tab of third sheet and choose Delete from the context menu	✓
2	Click on Sheet 3 and from Edit menu choose Delete	
3	Both of above	
4	None of above	

Q.58 What is the short cut key to replace a data with another in sheet?

Marks 1

Question ID:
2763

No	Options Details	Correct Option
1	Ctrl + R	
2	Ctrl + Shift + R	
3	Ctrl + H	✓
4	Ctrl + F	

Q.59 Which of the following do you use to change margins?

Marks 1

Question ID:
2764

No	Options Details	Correct Option
1	Formatting toolbar	
2	Page setup dialog box	✓
3	Standard toolbar	
4	Paragraph dialog box	

Q.60 Which of the following helps to reduce spelling error in the document?

Marks 1

Question ID:
2765

No	Options Details	Correct Option
1	Auto Format	
2	Auto Correct	✓
3	Smart Tags	
4	Auto Text	

Q.61 Miss World (2019) is

Marks 1

Question ID:
2766

No	Options Details	Correct Option
1	Zozibim Tunzig	
2	Anitha Kaur	
3	Harris Joe Lina	
4	Toni-Ann Singh	✓

Q.62 "The Road Ahead" was written by

Marks 1

Question ID:
2767

No	Options Details	Correct Option
1	Sundar Pichai	
2	A P J Abdul Kalam	
3	Bill Gates	✓
4	Sudha Narayana Murthy	

Q.63 National Sport of USA is

Marks 1

Question ID:
2768

No	Options Details	Correct Option
1	Basket Ball	
2	Soccer	
3	Base Ball	✓
4	Cricket	

Q.64 Who is the Governor of Andhra Pradesh?

Marks 1

Question ID:
2769

No	Options Details	Correct Option
1	Tamilisai Soundararajan	
2	Biswabhusan Harichandan	✓
3	Vidya Sagar	
4	Vijubhaivala	

Q.65 First state in India that came into existence on linguistic basis

Marks 1

Question ID:
2770

No	Options Details	Correct Option
1	Andhra Pradesh	✓
2	Karnataka	
3	Gujarat	
4	Goa	

Q.66 National Institute of Rural Development is located in

Marks 1

Question ID:
2771

No	Options Details	Correct Option
1	Simla	
2	Hyderabad	✓
3	Patna	
4	New Delhi	

Q.67 As per Brexit Agreement 2020, which country got separated from European Union.

Marks 1

Question ID:
2772

No	Options Details	Correct Option
1	Britain	✓
2	Spain	
3	Italy	
4	Belgium	

Q.68 World Ozone Day is celebrated on

Marks 1

Question ID:
2773

No	Options Details	Correct Option
1	September 16	✓
2	October 14	
3	November 15	
4	December 12	

Q.69 Engineer's Day is celebrated on

Marks 1

Question ID:
2774

No	Options Details	Correct Option
1	June 14	
2	July 20	
3	August 21	
4	September 15	✓

Q.70 Simon Remo Award was given to

Marks 1

Question ID:
2775

No	Options Details	Correct Option
1	Dr. K. Radha Krishna	
2	Dr. K. Sivan	✓
3	Dr. K. Vidyamath	
4	Dr. M. Aravind	

Q.71

Select the appropriate verb form to fill the blank in the given sentence.

The accident took place when she _____ the road.

(A) Had crossed

(B) Crossed

(C) Is crossing

(D) Was crossing

Marks 1

Question ID:
2776

No	Options Details	Correct Option
1	A	
2	B	
3	C	
4	D	✓

Q.72

Select the appropriate preposition to fill the blank in the given sentence.

The old lady was sitting _____ an armchair.

- (A) On (B) In
(C) Above (D) With

Marks 1

Question ID:
2777

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

Q.73

Select the word from the given options that best describes the same meaning as the given word

PARSIMONIOUS

- (A) Cruel (B) Haughty
(C) Prodigal (D) Miserly

Marks 1

Question ID:
2778

No	Options Details	Correct Option
1	A	
2	B	
3	C	✓
4	D	

Q.74

Select the word from the given options that best describes the meaning opposite to the given word.

BRASH

(A) Polite

(B) Handsome

(C) Arrogant

(D) Kind

Marks 1

Question ID:
2779

No	Options Details	Correct Option
1	A	✓
2	B	
3	C	
4	D	

Q.75

Select the sentence from the given options that best describes the meaning of the given sentence.

Open the window.

(A) The window open

(B) Let the window open

(C) The window is opened

(D) Let the window be opened

Marks 1

Question ID:
2780

No	Options Details	Correct Option
1	A	
2	B	
3	C	
4	D	✓

Q.76

Select the option that best describes the meaning of the given Idiom/ Phrase

Nip in the bud

- (A) The opening of the bud (B) Stop something at an early stage
(C) Remove a bud (D) Taking a work without delay

Marks 1

Question ID:
2781

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

Q.77

Select the option that best describes the meaning of the given Idiom/ Phrase

Man of letters

- (A) A scholar
(B) A postman
(C) A man who helps in writing letters
(D) A book of letters

Marks 1

Question ID:
2782

No	Options Details	Correct Option
1	A	✓
2	B	
3	C	
4	D	

Q.78

Select the sentence from the given options that best describes the meaning of the given sentence.

No other girl in the class is so clever as Radha.

- (A) Radha is not cleverer than most other girls in the class
- (B) Very few girls in the class are as clever as Radha
- (C) Radha is the cleverest girl in the class
- (D) Radha is not cleverer girl in the class

Marks 1

Question ID:
2783

No	Options Details	Correct Option
1	A	
2	B	
3	C	✓
4	D	

Q.79

Select the right way of reporting the given sentence.

She said, "Where have you gone?"

- (A) She said where have I gone
- (B) She asked where have you gone
- (C) She asked me where have I gone
- (D) She asked me where I had gone

Marks 1

Question ID:
2784

No	Options Details	Correct Option
1	A	
2	B	
3	C	
4	D	✓

Q.80

Given below are sentences with numbers. But they are jumbled. By using all the sentences you can frame a meaningful paragraph. The correct order of the sentences is your answer. Select from the alternatives that has the correct sentence order.

- I. He persisted.
 - II. He chanted banalities of war time prices
 - III. A neighbor declared that you could not think of buying any article made of iron till after the war
 - IV. In one voice, they ordered him to manage with the available things and learn not to make demands
 - V. They began to speculate how much it would cost to buy a grass-cutter?
- (A) II, IV, I, III, V
(B) IV, I, V, III, II
(C) IV, V, III, I, II
(D) I, III, IV, II, V

Marks 1

Question ID:
2785

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

Q.81

The cost of 16 packets of salt each weight 900 grams is Rs. 28. What will be the cost of 27 packets, if each packet weight is 1 kg

Marks 1

Question ID:
2786

No	Options Details	Correct Option
1	52.5	✓
2	56	
3	58.5	
4	64.75	

Q.82 The smallest number of five digits exactly divisible by 476 is

Marks 1

Question ID:
2787

No	Options Details	Correct Option
1	10,000	
2	10472	✓
3	10476	
4	47600	

Q.83

$$0.002 \times 0.5 = ?$$

(A) 0.0001

(B) 0.001

(C) 0.01

(D) 0.1

Marks 1

Question ID:
2788

No	Options Details	Correct Option
1	A	
2	B	✓
3	C	
4	D	

Q.84

$$3 \times 0.3 \times 0.03 \times 0.003 \times 30 = ?$$

(A) 0.0000243

(B) 0.000243

(C) 0.00243

(D) 0.0243

Marks 1

Question ID:
2789

No	Options Details	Correct Option
1	A	
2	B	
3	C	✓
4	D	

Q.85 If one third of one - fourth of numbers is 15, then three - tenth of that number is

Marks 1

Question ID:
2790

No	Options Details	Correct Option
1	35	
2	36	
3	45	
4	54	✓

Q.86 The total of the ages of Jayauth, prem and saraush is 93 years. Ten years ago, the ratio was 2:3:4. What is the present age of saraush?

Marks 1

Question ID:
2791

No	Options Details	Correct Option
1	24 years	
2	32 years	✓
3	34 years	
4	37 years	

Q.87 The sum of two numbers is 40 and their difference is 4. The ratio of the numbers is

Marks 1

Question ID:
2792

No	Options Details	Correct Option
1	11:9	✓
2	11:18	
3	21:19	
4	22:9	

Q.88 The Product of two numbers is 45 and the sum of squares is 106. The numbers are

Marks 1

Question ID:
2793

No	Options Details	Correct Option
1	3 and 5	
2	5 and 9	✓
3	5 and 19	
4	45 and 1	

Q.89 What is the sum of two consecutive even numbers, the difference of whose squares is 84?

Marks 1

Question ID:
2794

No	Options Details	Correct Option
1	34	
2	38	
3	42	✓
4	46	

Q.90 The sum of three consecutive numbers is 87. The greatest among these three number

Marks 1

Question ID:
2795

No	Options Details	Correct Option
1	26	
2	28	
3	29	
4	30	✓

Q.91 Pen - write, Brush - Teeth; Spade-?

Marks 1

Question ID:
2796

No	Options Details	Correct Option
1	Cut	
2	Dig	✓
3	Wood	
4	Iron	

Q.92 Draw - Board, Write-paper, Walk -?

Marks 1

Question ID:
2797

No	Options Details	Correct Option
1	Ground	✓
2	Foot	
3	Stick	
4	Food	

Q.93 Cat-kitten; Goat - kid; Sheep -?

Marks 1

Question ID:
2798

No	Options Details	Correct Option
1	Raven	
2	Colt	
3	Lamb	✓
4	Filly	

Q.94 Bathroom - Sink; House - Kitchen; Cloister -- ?

Marks 1

Question ID:
2799

No	Options Details	Correct Option
1	Monk	
2	Statue	✓
3	Gate-keeper	
4	Pray	

Q.95

How many small cubes of 1.5 cm side can be formed from a cube of 6 cm side?

Marks 1**Question ID:**
2800

No	Options Details	Correct Option
1	64	✓
2	16	
3	8	
4	9	

Q.96

A girl is introduced a boy as the son of the daughter of the father of her uncle, the boy is the girl's.

Marks 1**Question ID:**
2801

No	Options Details	Correct Option
1	Nephew	
2	Uncle	
3	Brother	✓
4	Son-in-law	

Q.97

Pointing to a gentleman, Deepak said, His only brother is the father of my daughter's father. How is the gentleman related to Deepak?

Marks 1**Question ID:**
2802

No	Options Details	Correct Option
1	Father	
2	Grand Father	
3	Uncle	
4	Brother-in-law	✓

Q.98 If the words Matured, Youth, Teens, Child hood and Infancy are arranged in their natural ascending order, which word occur in Fourth place.

Marks 1

Question ID:
2803

No	Options Details	Correct Option
1	Teens	
2	Youth	✓
3	Matured	
4	Childhood	

Q.99

Arrange the following words in a meaning full order:

1. Sing 2. Think 3. Appreciation 4. Compose 5. Money

(A) 31425

(B) 42315

(C) 45132

(D) 24135

Marks 1

Question ID:
2804

No	Options Details	Correct Option
1	A	
2	B	
3	C	
4	D	✓

Q.100 15, 22, 29, 36, ? 50 57.

Marks 1

Question ID:
2805

No	Options Details	Correct Option
1	43	✓
2	42	
3	40	
4	44	