

## EXL Data Analyst training : Test 2 – 50 Marks : 90 Minutes

### 1. Continuous Distributions are

1.Countable 2. Measurable 3. Freezable 4.All of them

ANS :

### 2. In Continuous Dist, Probability of being exactly at a point is

1.Zero 2.One 3.Half 4.None of them

ANS :

### 3. For Normal Distribution, Mean,Median & Mode are

1.Same 2.Different 3. Unequal 4.Not available

ANS :

### 4. Area under a Normal Distribution curve is

1. Not measurable 2. Zero 3. One 4. Infinity

ANS :

### 5. At large sample sizes, binomial distributions approach “ ” Distribution

1. Normal 2.Chi-Square 3. T Dist 4. Flat

ANS :

### 6. Exponential distribution is “ ” Skewed

1. Zero 2. Negative 3.Positive 4. Infinity

ANS :

### 7. Every unit has “ ” probability of getting selected in a Random Sample ?

1. Unknown 2. Different 3.Zero 4. Same

ANS :

### 8. In Stratified random sampling population is broken in to “ ”

1. Delta 2.Beta 3.Strata 4. Eta

ANS :

### 9. Cluster Sampling is a type of “ ”Sampling

1. Unequal 2.Equal 3.Non-Random 4. Random

ANS :

### 10. Convenience Sampling is a type of “ ”Sampling

1. Unequal 2.Equal 3.Non-Random 4. Random

ANS :

### 11. Value of df in T distribution is

1. N-n 2.n-1 3.n+1 4. n

ANS :

### 12. T Dist is

1. Symmetric 2.Unimodal 3.Mu=0 4. All the above

ANS :

### 13. $\bar{x}/n$ is

1. P 2.p 3. P-hat 4. p-hat

ANS :

### **NAME :**

### **ROLL No :**

### **BRANCH :**

Q1 to Q25 – 1 Mark Each

Q 26 – 5 Marks

Q 27 & 28 – 10 Marks Each

No Negative Marks

### 14. At large sample sizes, T distributions approach “ ” Distribution

1. Normal 2.Chi-Square 3. S Dist 4. Flat

ANS :

### 15. Chi - Square distribution is “ ” Skewed

1. Zero 2. Negative 3.Positive 4. Infinity

ANS :

### 16. Alpha for 95% Confidence is

1.{0.1} 2.{0.5} 3.{0.05} 4.{0.005}

ANS :

### 17. Alpha / 2 for 90% Confidence is

1.{0.1} 2.{0.5} 3.{0.05} 4.{0.005}

ANS :

### 18. Total Area outside Confidence range is

1. Alpha/2 2.Alpha 3.Alpha\*2 4.Alpha^2

ANS :

### 19. Sample Mean is

1. X-bar 2.x-bar 3. s 4. Sigma

ANS :

### 20. Sample Standard Deviation is

1. X-bar 2.x-bar 3. s 4. Sigma

ANS :

### 21. Error of estimation is

1.  $\bar{x}$  &  $\mu$  2.  $\hat{p}$  &  $p$   
3. Both(1&2) 4.  $\mu$  &  $\sigma$

ANS :

### 22. q is

1. (p-1) 2.(1-p) 3.(N/n) 4.(1-P/ $\mu$ )

ANS :

### 23. Mu of Z Distribution is

1. Zero 2.One 3.Variable 4. Unknown

ANS :

24. Normal Distribution is Asymptotic to

1. Y Axis 2. Z - Axis 3. X - Axis 4. All Axis

ANS :

25. Standard Deviation of Z Distribution is

1. Zero 2. One 3. Variable 4. Unknown

ANS :

26. What is Normal Approximation of Binomial Distribution, Explain Briefly – Parameter Conversion

- Interval Check
- Correction for Continuity

27.1 - Define Chebishev's inequality ?

27.2 - What is Standard Normal Distribution & What does Z-Score indicate?

27.3 - X is Normally distributed with  $\mu = 485$  &  $\sigma = 105$ , Find Z values for  $X = 485$  &  $x = 600$  ?

27.4 – Define are the two major types of Sampling & List out various types of sampling involved in them ( Don't describe each type ) ?

27.5 – Write the formulas for Point Estimate & interval used to

Estimate  $\mu$  when  $\sigma$  is Known

28. Define Central Limit Theorem & formulas used ?

Suppose that during any hour in a large department store, the average number of shoppers is 448, with a standard deviation of 21 shoppers.

What is the probability that a random sample of 49 different shopping hours will yield a sample mean between 441 and 446 shoppers?

Z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.0000	0.0040	0.0080	0.0120	0.0160	0.0199	0.0239	0.0279	0.0319	0.0359
0.1	0.0398	0.0438	0.0478	0.0517	0.0557	0.0596	0.0636	0.0675	0.0714	0.0753
0.2	0.0793	0.0832	0.0871	0.0910	0.0948	0.0987	0.1026	0.1064	0.1103	0.1141
0.3	0.1179	0.1217	0.1255	0.1293	0.1331	0.1368	0.1406	0.1443	0.1480	0.1517
0.4	0.1554	0.1591	0.1628	0.1664	0.1700	0.1736	0.1772	0.1808	0.1844	0.1879
0.5	0.1915	0.1950	0.1985	0.2019	0.2054	0.2088	0.2123	0.2157	0.2190	0.2224
0.6	0.2257	0.2291	0.2324	0.2357	0.2389	0.2424	0.2454	0.2486	0.2517	0.2549
0.7	0.2580	0.2611	0.2642	0.2673	0.2704	0.2734	0.2764	0.2794	0.2823	0.2852
0.8	0.2881	0.2910	0.2939	0.2967	0.2995	0.3023	0.3051	0.3078	0.3106	0.3133
0.9	0.3159	0.3186	0.3212	0.3238	0.3264	0.3289	0.3315	0.3340	0.3365	0.3389
1.0	0.3413	0.3438	0.3461	0.3485	0.3508	0.3531	0.3554	0.3577	0.3599	0.3621
1.1	0.3643	0.3665	0.3686	0.3708	0.3729	0.3749	0.3770	0.3790	0.3810	0.3830
1.2	0.3849	0.3869	0.3888	0.3907	0.3925	0.3944	0.3962	0.3980	0.3997	0.4015
1.3	0.4032	0.4049	0.4066	0.4082	0.4099	0.4115	0.4131	0.4147	0.4162	0.4177
1.4	0.4192	0.4207	0.4222	0.4236	0.4251	0.4265	0.4279	0.4292	0.4306	0.4319
1.5	0.4332	0.4345	0.4357	0.4370	0.4382	0.4394	0.4406	0.4418	0.4429	0.4441
1.6	0.4452	0.4463	0.4474	0.4484	0.4495	0.4505	0.4515	0.4525	0.4535	0.4545
1.7	0.4554	0.4564	0.4573	0.4582	0.4591	0.4599	0.4608	0.4616	0.4625	0.4633
1.8	0.4641	0.4649	0.4656	0.4664	0.4671	0.4678	0.4686	0.4693	0.4699	0.4706
1.9	0.4713	0.4719	0.4726	0.4732	0.4738	0.4744	0.4750	0.4756	0.4761	0.4767
2.0	0.4772	0.4778	0.4783	0.4788	0.4793	0.4798	0.4803	0.4808	0.4812	0.4817
2.1	0.4821	0.4826	0.4830	0.4834	0.4838	0.4842	0.4846	0.4850	0.4854	0.4857
2.2	0.4861	0.4864	0.4868	0.4871	0.4875	0.4878	0.4881	0.4884	0.4887	0.4890
2.3	0.4893	0.4896	0.4898	0.4901	0.4904	0.4906	0.4909	0.4911	0.4913	0.4916
2.4	0.4918	0.4920	0.4922	0.4925	0.4927	0.4929	0.4931	0.4932	0.4934	0.4936
2.5	0.4938	0.4940	0.4941	0.4943	0.4945	0.4946	0.4948	0.4949	0.4951	0.4952
2.6	0.4953	0.4955	0.4956	0.4957	0.4959	0.4960	0.4961	0.4962	0.4963	0.4964
2.7	0.4965	0.4966	0.4967	0.4968	0.4969	0.4970	0.4971	0.4972	0.4973	0.4974
2.8	0.4974	0.4975	0.4976	0.4977	0.4977	0.4978	0.4979	0.4979	0.4980	0.4981
2.9	0.4981	0.4982	0.4982	0.4983	0.4984	0.4984	0.4985	0.4985	0.4986	0.4986
3.0	0.4987	0.4987	0.4987	0.4988	0.4988	0.4989	0.4989	0.4989	0.4990	0.4990
3.1	0.4990	0.4991	0.4991	0.4991	0.4992	0.4992	0.4992	0.4992	0.4993	0.4993
3.2	0.4993	0.4993	0.4994	0.4994	0.4994	0.4994	0.4994	0.4995	0.4995	0.4995
3.3	0.4995	0.4995	0.4995	0.4996	0.4996	0.4996	0.4996	0.4996	0.4996	0.4997
3.4	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4997	0.4998
3.5	0.4998	0.4998	0.4998	0.4998	0.4998	0.4998	0.4998	0.4998	0.4998	0.4998
3.6	0.4998	0.4998	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999
3.7	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999
3.8	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999	0.4999
3.9	0.5000	0.5000	0.5000	0.5000	0.5000	0.5000	0.5000	0.5000	0.5000	0.5000

