Tripura University

Suryamaninagar-799022, Tripura (W)

Name of the Examination

Written Test for the post of Statistical Assistant

Name of the Candidate: _____

Registration No. _____

Roll No. _____

Date of Birth (in figure) : _____

(in word) _____

_____

Signature of the Candidate _____

Date : _____

Signature of the Superintendent   Signature of the Invigilators

PART-I

Total = 50 x 1= 50 marks

1. The water accumulated under the ground surface in this manner

    (a) Well   ☐   (b) Canal   ☐

    (c) Ground water ☐   (d) Spring   ☐

2. Full form of RKVY is

    (a) Rashtriya Krishi Vikas Yojana   ☐

    (b) Rajya Krishi Vikas Yojana   ☐

    (c) Rajya Kendra Vikas Yojana   ☐

    (d) None of these   ☐

3. What is the playing time of the full version of Indian National Anthem

    (a) 47 Seconds   ☐   (b) 50 Seconds   ☐

    (c) 60 Seconds   ☐   (d) 52 Seconds   ☐

4. World's largest floating (part) 'Keibul Lamjao' is situated in India, Identify the state

    (a) Manipur   ☐   (b) Mizoram   ☐

    (c) Arunachal Pradesh ☐   (d) Assam   ☐

5. 'My Music My Life' is the Auto Biography of

    (a) Pt. Shivkumar Sharma ☐   (b) Ustad Amjad Ali Khan ☐

    (c) Ustad Zakir Hussain   ☐   (d) Pt. Ravishankar   ☐

6. Force: Newton :: Power : ----------- ?

    (a) Watt ☐   (b) Volt ☐   (c) Ampere ☐   (d) Ohm ☐

7. Jungle : Zoo :: Sea : ---------- ?

    (a) Water   ☐   (b) Fishery   ☐

    (c) Harbour   ☐   (d) Aquarium ☐

8. Name of the youngest recipient of 'Bharat Ratna'

    (a) Rajiv Gandhi ☐   (b) Dr. A P J Abdul Kalam ☐

    (c) Sachin Tendulkar ☐   (d) Prof. Amartya Sen ☐

9. Full form of IMRB is

    (a) Indian Market Rural Business ☐

    (b) International Market Research Bureau ☐

    (c) Indian Market Research Bureau ☐

    (d) None of these ☐

10. If $\sqrt{15} = 3.88$ then find the value of $\sqrt{5/3}$

    (a) 5.60 ☐   (b) 7.80 ☐   (c) 1.2933 ☐   (d) 13.97 ☐

11. If D = 4 and COVER = 63 then BASIS = ?

    (a) 50 ☐   (b) 54 ☐   (c) 55 ☐   (d) 49 ☐

12. A and B together can complete a piece of work in 4 days, if A alone can complete the same work in 12 days. How many days can B alone complete that work?

    (a) 7 days ☐   (b) 6 days ☐   (c) 5 days ☐   (d) 8 days ☐

13. A worker may claim ₹ 15 for each KM which he travels by taxi and ₹ 5 for each KM which he drives his own car. If in one week he claimed ₹ 500 for travelling 80 KM, how many KMs he travels by taxi?

    (a) 20 KM ☐   (b) 30 KM ☐   (c) 10 Km ☐   (d) 40 KM ☐

14. Who was the Chairman of Drafting Committee of Constituent Assembly?

    (a) Sardar Vallabbhai Patel ☐   (b) K.M Munshi ☐

    (c) Dr. B. R. Ambedkar ☐   (d) Dr. Rajendra Prasad ☐

15. How many types of nouns are there in English Grammer?

    (a) 6 ☐   (b) 4 ☐   (c) 2 ☐   (d) 5 ☐

16. The past participle form of the verb 'Draw'

    (a) Drew ☐   (b) Draw ☐   (c) Drwaing ☐   (d) Drawn ☐

17. Index Numbers are used for

    (a) To measure the statistical significance of the data ☐

    (b) To measure the relative changes in the level of a variable concerning time ☐

    (c) To measure the elasticity of demand ☐

    (d) None of these ☐

18. Laspeyre's Price Index

    (a) Under-estimates of true value ☐

    (b) Over-estimates of true value ☐

    (c) Remains neutral ☐

    (d) None of these ☐

19. Which among of the following satisfies the Circular test?

    (a) Laspeyre's Price Index ☐   (b) Walsch Price Index ☐

    (c) Kelly's Price Index ☐   (d) Fisher's Ideal Price Index ☐

20. Which is the number that should come next in the following series?

    2,6,12,20,30,42,56

    (a) 60 ☐   (b) 64 ☐   (c) 72 ☐   (d) 70 ☐

21. 120 x 672 = 168 x -------- ?

    (a) 450 ☐   (b) 860 ☐   (c) 480 ☐   (d) 346 ☐

22. The length and breadth of a rectangle is in the ration of 3:2, if the breadth is 108 cm, length is

    (a) 72 cm ☐   (b) 12 cm ☐   (c) 162 cm ☐   (d) 105 cm ☐

23. A man buys 10 articles for ₹ 8 and sells them at rate of ₹ 1.25 per article, his gain is

    (a) 20 % ☐ (b) 56 ¼ % ☐ (c) 19 ½ % ☐ (d) 50 % ☐

24. Two dozen bangles cost ₹ 80. The Cost of 5 dozen bangles is ?

    (a) 210 ☐ (b) 200 ☐ (c) 150 ☐ (d) 400 ☐

25. Two pipes A and B Can fill a tank in 12 hours and 15 hours respectively, if both the pipes are opened together, at what time the tank will be full?

    (a) 8 hours 30 mins ☐ (b) 10 hours ☐

    (c) 7 hours ☐ (d) 6 hours 40 mins ☐

26. Expand 'NITI' in NITI Ayog ?

    (a) National Institute for Transforming India ☐

    (b) National Institution for Transforming India ☐

    (c) National Institution of Transforming India ☐

    (d) National Institute of Transforming India ☐

27. The Child ------------ since 4 O' clock

    (a) Has been sleeping ☐ (b) Is sleeping ☐

    (c) Had slept ☐ (d) Has slept ☐

28. Where is the Niagara river found

    (a) India ☐ (b) Australia ☐

    (c) North-America ☐ (d) Japan ☐

29. A sum of ₹ 800 amounts to ₹ 920 in 3 years at simple interest. If the interest rate is increased by 3%, it would amount to how much?

    (a) 995 ☐ (b) 997 ☐ (c) 998 ☐ (d) 992 ☐

30. Tripura University has been converted to a Central University under the Tripura University Act,2006 as enacted by the Parliament w.e.f

    (a) 2nd July,2007 ☐   (b) 15th Sept., 2007 ☐

    (c) 16th June 2006 ☐   (d) 22nd Dec., 2006 ☐

Change into Reported Speech

31. Maya said to me, "When will you return"

    (a) Maya asked me when he would return ☐

    (b) Maya asked me when I would return ☐

    (c) Maya asked me when I will return ☐

    (d) Maya asked when I returned ☐

32. Rema said, "I have finished my work"

    (a) Rema said that I had finished my work ☐

    (b) Rema said that she has finished her work ☐

    (c) Rema said that I have finished my work ☐

    (d) Rema said that she had finished her work ☐

Choose the correct passive form of given sentence

33. It is time to eat the food

    (a) It is time for the food to be eaten ☐

    (b) It is the time for the food to eat ☐

    (c) The food is eaten ☐

    (d) None of these ☐

34. The Finance Officer was preparing the annual report

    (a) The annual report will be prepared by the Finance Officer ☐

    (b) The annual report would be prepared by the Finance Officer ☐

    (c) The annual report is being prepared by the Finance Officer ☐

    (d) The annual report was being prepared by the Finance Officer ☐

35. The president _____ the prizes to the winners
    (a) Give away ☐ (b) Give up ☐
    (c) Give in ☐   (d) Give off ☐

36. Write the antonym of 'Cheerful'
    (a) Gloomy ☐ (b) Bad ☐ (c) Joyful ☐ (d) Dim ☐

37. Write the antonym of 'Exhibit'
    (a) Prevent ☐ (b) Withdraw ☐ (c) Conceal ☐ (d) Concede ☐

38. Write the synonym of 'Nebulous'
    (a) Tiny ☐ (b) Vogue ☐ (c) Insignificant ☐ (d) Inadequate ☐

Fill in the blanks suitably

39. Amit is popular _____ his musical concerts
    (a) With ☐ (b) Of ☐ (c) For ☐ (d) At ☐

40. Happiness consists _____ Pleasure
    (a) In ☐ (b) Of ☐ (c) By ☐ (d) With ☐

41. We have _____ our meeting
    (a) Put off ☐ (b) Put on ☐ (c) Put up ☐ (d) Put down ☐

42. A man is 4 times old as his son. Four year hence the sum of their ages will be 43 years. The present age of the son is
    (a) 7 years ☐ (b) 9 years ☐ (c) 6 years ☐ (d) 11 year ☐

43. Mizoram got statehood on:
    (a) 26th January 1986 ☐ (b) 30th January 1986 ☐
    (c) 20th February 1987 ☐ (d) 21st January 1971 ☐

44. A multi-platform file format by Adobe System is

    (a) PDF ☐   (b) EPub ☐

    (c) Open XML ☐   (d) Rich Text Format ☐

45. In which city is the cost of riding metro and bus free for women?

    (a) Kolkata ☐   (b) Delhi ☐   (c) Chennai ☐   (d) Mumbai ☐

46. Standard deviation is _____ statistic and standard error is _____ statistic

    (a) Descriptive and descriptive ☐

    (b) Inferential and Inferential ☐

    (c) Inferential and descriptive ☐

    (d) Descriptive and inferential ☐

47. In the context of Normal Distribution Analysis, the relationship between Mean Deviation, Standard Deviation and Quartile Deviation reflects:

    (a) SD=MD=QD ☐   (b) 2SD=3MD=4QD ☐

    (c) SD=2MD=3QD ☐   (d) 4SD=5MD=6QD ☐

48. The weights of 11, motorbikes in a garage were148, 154, 158, 160, 161, 162, 166, 170, 182, 195, and 236 kilograms. If the heaviest bike is omitted, what is the percentage change in the range?

    (a) 22 ☐   (b) 39 ☐   (c) 47 ☐   (d) 88 ☐

49. Which assumption is NOT mandatory for linear progression?

    (a) Linearity of the relationship ☐

    (b) Homoscedasticity ☐

    (c) Normality ☐

    (d) Independence of errors ☐

50. If the cost price is 96% of the selling price, then what is the profit percentage?

    (a) 4.17 % ☐   (b) 5.17 % ☐   (c) 6.17 % ☐   (d) 3.17 % ☐

A. 10 Short Answer type questions for answer in one word/one sentence (2 marks each)

Total= 10 x 2=20 Marks

1. In a Poisson distribution, the relationship between the mean and variance is?

Ans.:

2. Ten times, a coin is tossed. The likelihood of receiving precisely six heads is ?

Ans.:

3. The median in a standard normal distribution has the value _____ ?

Ans.:

4. What category of goods are measured by Kelly's method?

Ans.:

5. When was the first index number constructed?

Ans.:

6. Calculate the coefficient of Quartile deviation when the value of first quartile is 5 and the value of third quartile is 10.

Ans.:

7. If the record of amounts spent by Mr. Vikas on various evenings gives a coefficient of variation of 50 percent and a standard deviation of rupees 4.00, what was Mr. Vikas' average expenditure?

Ans.:

8. Find Renge for the set of observations 15, 17, 18,13,25,38,25,36,14,25.

Ans.:

9. If for a distribution first and third quartile Q1 and Q3 are given by 47.25 and 59.70, then Find Quartile Deviation.

Ans.:

10. If Xi = 1,2,3,4,5, Find the mean of Xi

Ans.:

B. 5 Broad Answer type Questions for answer in 50 words (3 marks each)

Total= 5 x 3= 15 Marks

1. Calculate mode of the Following data:

Marks	0-20	20-40	40-60	60-80	80-100
No of Students	5	10	12	6	3

Ans.:

2. Calculate the mean of the following sets of observations:
   4,6,9,12,14,16,18,20,22

Ans.:

3. If the events A and B are independent and P (A) = 2/3, P(B) = 1/3; then find P (A+B).

Ans.:

4. Find the median of the following data:
3,9,2,8,7,1,1,4,5,6,6,2,9,7,8,4,6.

Ans.:

5. Describe the definition of Range.

Ans.:

C. 3 Subjective type Questions for answer in 100 words (5 marks each)

Total= 3 x 5= 15 Marks

1. Find the value of p, if the mode of the following distribution is 48:

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	7	14	13	12	p	18	15	8

Ans.:

2. Describe Elasticity of Demand.

Ans.:

3. The net profit of a company for eleven successive years are given below. Find the three-year moving averages:

Year	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966
Profit in lakhs(₹)	2.7	2.9	3.4	5.2	5.8	6.4	9.3	9.2	9.8	10.2	11.0

Ans.:

Answer Keys for The Post of Statistical Assistant

Question Number	Answer (Option)
1	c
2	a
3	d
4	a
5	d
6	a
7	d
8	c
9	c
10	c
11	a
12	b
13	c
14	c
15	d
16	d
17	b
18	b
19	d
20	c
21	c
22	c
23	b
24	b
25	d
26	b
27	a
28	c
29	d
30	a
31	b
32	d
33	a
34	d
35	a
36	a
37	c
38	b
39	c
40	b
41	a

42	a
43	c
44	a
45	b
46	d
47	d
48	c
49	b
50	a