

B.Com Sixth Semester – Advance Statistics

* Required

1. Email *

Question Paper

2. Q) If variance of $(x)=25$, and variance of $(y)=49$, $r=0.5$ then $\sigma(y)$ is 2 points

Mark only one oval.

- 6
 7
 8
 8.5

3. Q) If $dy = 279$ then what is dy^2 ? 2 points

Mark only one oval.

- 82641
 77841
 39138
 42899

4. Q) If $A_x = 10$; $A_y = 90$; $\sigma_x = 3$; $\sigma_y = 12$; $r = .8$, then regression coefficient of X on Y: 2 points

Mark only one oval.

- 0.2
 1.2
 2.2
 3.2

5. Q) Calculate sales for the year 1991, if $a = 28$; $M.Y. = 1987.5$; $R.G. = 2.6$ 2 points

Mark only one oval.

- 37.1
 38.1
 31.7
 36.1

6. Q) The following are group index number & the group weight of an average workingclass families budget construct the weight index number. : Weight =93 $I(x)W=25706$ 2 points

Mark only one oval.

- 267.41
 248.41
 276.41
 269.41

7. Q) If $P_0 = 250$ and $P_1 = 290$ find out index number of simple aggregative method 2 points

Mark only one oval.

- 105%
 116%
 118%
 117%

8. Q) Calculate $\sum xy$ from the series. $xy = - 266, - 200, - 195, - 72, + 79, + 180, + 435, +665$ 2 points

Mark only one oval.

- 2096
 626
 726
 636

9. Q) Calculation of Rate of Growth if $\sum xy = 626$; $\sum x^2 = 168$

2 points

Mark only one oval.

- 3.72
- 3.73
- 3.82
- 3.83

10. Q) Find out Rank correlation If $\sum d^2 = 4$; $n = 8$

2 points

Mark only one oval.

- 0.952
- 0.782
- 0.962
- 0.982

11. Q) The following linear trend equation was developed for annual production from 2004 to 2010 with 2007 the base or zero year. $Y_1 = 450 + 36X$ (in kgs.). The estimated production for 2014 (in kgs.) is:

2 points

Mark only one oval.

- 502kgs
- 602kgs
- 702kgs
- 802kgs

12. Q) If $B_{xy} = -0.278$ & $B_{yx} = -0.304$, then $r =$

2 points

Mark only one oval.

- 0.19
- 0.29
- 0.39
- 0.41

13. Q) Calculate trend line if mean = 15; time deviation = - 2; rate of growth = 1.2 2 points

Mark only one oval.

- 12.6
 12
 13.6
 13

14. Q) If $B_{xy} = 0.8$, $B_{yx} = 0.2$, then r is 2 points

Mark only one oval.

- 0.3
 0.026
 0.4
 0.046

15. Q) Find out $\sum xy$; Rate of Growth = 4.86; $\sum x^2 = 28$ 2 points

Mark only one oval.

- 136.08
 138.08
 29
 126

16. Q) x series = 21, 29, 20, 22, 18, 16, 20, 24, 26, Find out n ? 2 points

Mark only one oval.

- 9
 8
 7
 6

17. Q) Std. Deviation for x & y is 20 & 30 resp. and if $r=1$ then B_{yx} is 2 points

Mark only one oval.

- 1.5
 0.5
 2.5
 0.15

18. Q) Mean 58, Time deviation – 2; R.G. 3.4, what is the value of trend line? 2 points

Mark only one oval.

- .512
 5.12
 51.2
 512

19. Q) From the data find out Index No by Paasches Method $\sum P_1q_1=6600$, $\sum P_0Q_1=5000$, $P_01=?$ 2 points

Mark only one oval.

- 132.5
 132
 134.5
 13.25

20. Q) Choose the middle year from below series 1955, 1996, 1997, 1998, 1999, 2000 2 points

Mark only one oval.

- 1996
 1998
 1999
 2000

21. Q) $r=0.98$, $n=10$ calculate P.E.

2 points

Mark only one oval.

0.006

0.005

0.007

0.008

22. Q) If weight of wheat is 80, Sugar is 60; Milk is 15, Find out total of weight.

2 points

Mark only one oval.

155

166

177

158

23. Q) Find out the index number by Laasperey's Method $\sum P_1q_0=526$,
 $\sum p_0q_0=332, \sum P_1q_1=1100, \sum p_0q_1=520$

2 points

Mark only one oval.

158.43

101.23

145.86

208.75

24. Q) Find out Rank correlation If $\sum d^2= 4$; $n = 8$

2 points

Mark only one oval.

0.9

0.895

0.1

0.952

25. Q) Calculate $\sum dx dy$ if $dx = 8 \ 10 \ 12 \ 16$ and $dy = 2 \ 4 \ 6 \ 8$

2 points

Mark only one oval.

- 256
- 78
- 356
- 265

26. Q) If $dx = - 6$, $dy = - 10$ calculate $dx dy$

2 points

Mark only one oval.

- 0.06
- 0.6
- 6
- 60

27. Q) If $dx = - 9$, $dy = - 10$ calculate $dx dy$

2 points

Mark only one oval.

- 0.09
- 0.9
- 9
- 90

28. Q) If Arithmetic mean of $x = 68$; Arithmetic mean of $y = 150$;
Standard deviation of $x = 2.5$; Standard deviation of $y = 20$ and $r = 0.6$,
then regression coefficient of Y on X :

2 points

Mark only one oval.

- 8.4
- 4.8
- 0.84
- 0.48

29. Q) If $A_x = 35$; $A_y = 50$; $\sigma_x = 5$; $\sigma_y = 8$ and $r = 0.8$ Then the Regression equation of Y on X will be :(where : Regression equation: $y - a_y = B_{yx}(x - A_x)$) 2 points

Mark only one oval.

- $X = 1.28x + 5.2$
 $Y = 5.2x + 51.4$
 $Y = 1.28x - 5.2$
 $X = 5.2x + 51.4$

30. Q) If $y = 0.5x - 2.5$ then value of y when $x = 20$ is 2 points

Mark only one oval.

- 6.5
 7.5
 8.5
 0.75

31. Q) If p_1 is 6 and q_1 is 8 then find out p_1q_1 2 points

Mark only one oval.

- 48
 0.48
 0.048
 -48

32. Q) Series Y 38, 40, 65, 72, 79, 60, 87, 95, find the value of $\sum Y$. 2 points

Mark only one oval.

- 536
 537
 538
 563

33. Q) In rank correlation, if x series = 71, 70, 69, 69, 68, 67, 65, 64, 63 So M1 = ? 2 points

Mark only one oval.

2

4

6

8

34. Q) Find $\sum dx^2$, values of dx are 2 4 6 8 and that of dy are 10 12 16 18 2 points

Mark only one oval.

40

60

80

120

35. Q) Calculate probable error, if $r = 0.78$ & $n = 10$ 2 points

Mark only one oval.

0.084

0.0084

0.4

0.8

36. Q) Calculate weighted average of price relative if $\sum PW = 3281$ $\sum W = 20$ 2 points

Mark only one oval.

165.04

164.05

163

162

37. Q) Calculate the value of $\sqrt{n \cdot \sum dy^2 - (\sum dy)^2}$ If $n = 10$ $\sum dy = 18$ $\sum dy^2 = 698$ 2 points

Mark only one oval.

- 81.584
- 81
- 80.584
- 80

38. Q) Value of perfect positive correlation is ____ 2 points

Mark only one oval.

- 1
- 0
- 1
- 2
- Option 5

39. Q) Calculate probable error if $r = 0.81$; $n = 100$ 2 points

Mark only one oval.

- 0.83
- 0.82
- 0.81
- 0.8

40. Q) The numbers $11/10$ cannot be a probability? 2 points

Mark only one oval.

- True
- False

41. Q) The value of Correlation can exceed to more than 1? 2 points

Mark only one oval.

- True
- False

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