

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

Department of Statistics

REMEDIAL COACHING

2021-2022

20 December, 2021 to 31 December, 2021 (For B.Sc.II)

LUDOJ. A.A

Prof. A. A. Pawar

Co-ordinator



Prof. V. V. Bawar statistics Depart HOD of Statistics

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR REMEDIAL COACHING

Goals & Objectives

- 1) Finding out the strengths and weaknesses of the average students.
- 2) To increase the academic ability of average students as compared to normal students.
- 3) To help increase the prior knowledge of the average students.
- 4) To add to the knowledge of dynamic students with changing times.
- 5) To provide facilities for academic improvement of average students.



VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR Department of Statistics REMEDIAL COACHING

NOTICE

Date: 17/12/2021

All the students of B.Sc.II (Statistics) are hereby informed that, lectures of "Remedial Coaching" will be conducted from 20/12/2021 to 31/12/2021. Those students should be present for lectures.

Place : Department of Statistics, Room No. 38

Time : 11.30 am to 12.30 pm

Contact Details : Prof. V. V. Pawar (HOD) (9823717300)

Prof. A. A. Pawar (9975631875)



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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

Department of Statistics

REMEDIAL COACHING

TIMETABLE

Date: 20/12/2021 to 31/12/2021 (Ten Days) Time: 11.30 am to 12.30 pm

Sr. No.	Date	Name of Teacher	Sign
1.	20/12/2021	Prof. V. V. Pawar	Aon
2.	21/12/2021	Prof. V. V. Pawar	Non
3.	22/12/2021	Prof. A. A. Pawar	PawenAA
4.	23/12/2021	Prof. M. B. Lohar	ng kohor
5.	24/12/2021	Prof. A. B. Bhosale	ABB
6.	27/12/2021	Prof. A. B. Bhosale	A.B.B.
7.	28/12/2021	Prof. A. M. Makandar	Ashyang
8.	29/12/2021	Prof. P. C. Patil	Pati
9.	30/12/2021	Prof. A. A. Pawar	Paroci An
10.	31/12/2021	Prof. A. M. Makandar	Ashyan 9



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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR Department of Statistics REMEDIAL COACHING

SYLLABUS & TIMETABLE

Sr. No.	Unit No.	Name of Unit	No. of Hours	
1.	1. Unit 1 Measures of Central Tendency		2	
2.	Unit 2 Correlation		1	
3.	Unit 3	nit 3 Regression		
4.	Unit 4	Probability	1	
5.	Unit 5	Mathematical Expectation	1	
6.	Unit 6	Some Standard Discrete Probability Distributions	3	



Prof. V. V. Pawar Wekanand College Kolhaev

Vinayak Rajaram vivekananu conege, Komapur (Autonomous) Department of Statistics. **Diagnostic Test for Statistics** Class: B.Sc. II(2021-2022) 1. If correlation between X and Y is 0.7, then correlation between (4X+3) and (3y-4) is A) None of these c)0 b)-0.7 a)0.7 2. The both regression coefficient has b) Same algebraic sign never a) Same algebraic sign always d) all of these c)Same algebraic sign sometimes 3. The correlation coefficient is the between the regression coefficients c) Mode d)Geometric Mean b) Median a) A.M. 4. The additive model in Time Series is d) Y = T + S + C(a) Y = T+S+C+I b) Y=T+S+I c) Y=S+C+I5. A set of values with mean 20 and its coefficient of variation is 15% then variance of the series is . 019 d)300 a)30 b) 3 6. If $r_{12} = r_{13} = 0$ then $R_{1,23} =$ d) None of these e) Unpredictable b)0 7. The variation in values of times series due to traditions and festivals is known as b) Cyclical variation a) Seasonal variation b) Random variation d) None of these 8. If $r_{13} = r_{23} = 0$ then $r_{12,3} =$ d)none of these b) Zero -011 $(a) r_{12}$ 9. Which of the following true for |R|= b)1- $r_{12}^2 + r_{13}^2 - r_{23}^2 +$ a) $1 - r_{12}^2 - r_{13}^2 - r_{23}^2 + 2r_{12}r_{13}r_{23}$ $2r_{12}r_{13}r_{23}$ d)1- $r_{12}^2 - r_{13}^2 - r_{23}^2 - r_{23}^2$ b) $1+r_{12}^2 - r_{13}^2 - r_{23}^2 + 2r_{12}r_{13}r_{23}$ $2r_{12}r_{13}r_{23}$ 10. If cov(x,y)=-6, V9x) =4, v(y)=9 then $r = \dots$ d) None of these c)-1 to +1 (0)1 (f a) −1 11. The order of residual X_{1,23} is d) None of these b)2 c)3 a) 1 12. Rank correlation coefficient is equal to 1 if b) $\sum di^2 = 0$ c) $\sum di^2 > 0$ $a \sum di^2 = 1$ d) $\Sigma di^2 < 0$ 13. If X and Y are two random variables with means E(X) and E(Y)resp. then the expressions E[(X-E(X)) (Y-E(Y))] is called a) variance of X b) Variance of Y c)covariance between X and Y d) correlation coefficient between X and Y

14.Let (X, Y) be a bivariate discrete r, v. with joint p. m. f. (x,y) (0,0) (1,0) (0,1) (1,1) 1/4 5/12 1/4 \checkmark P(x,y) $\frac{1}{2}$ The mean of Y is d)2/3 c)5/12a) 1/3 b)1 15. The correlation coefficient between X and Y is zero. We then conclude that..... A) X and Y have some distribution. b) The variance of X and Y are equal. C) There exists no relationship between X and Y d) d)There exists no linear relationship between X and Y 16. If X has one point distribution with P (X = k) = 1 and P(X \neq k) = 0, then variance of X is d) None of these 0(2 a) k b)1 17. Deciles divide the data into equal parts. b) 4 c)10 d) 100 a)9 18. If $X \rightarrow b(n, 1/4)$, then the probability distribution of Y=n-X is..... b) b(4n,1) c) b(n,3/4)d) b(2n, 1/4)a) b(n, 1/4)19 Mode of the binomial distribution is----a) not unique b) unique c) np d)npq 20.A random variable X \rightarrow H (N, M,n) when N $\rightarrow \infty$ and $\frac{M}{N} = p$, the distribution of X is.... d)b(n,p) a) (n,q) b) (m,p) c)(m,q) 21. If a random variable $X \rightarrow H$ (10.6.3) then the mean of X is.... 016 a) 10 b) 1.8 d)2 22. The recurrence between the probabilities of Poisson(m) is $P(X=x+1) = \dots$ P(X=x)a) m/(x+2) b)m/x c)x/(m+1) d)m/(x+1)23. The second central moment of Poisson distribution with mean m is---b)2m c) m^2 a) m d) m/224. Geometric distribution is a particular case of a) Binomial Distribution b) Poisson Distribution b) Negative binomial Distribution d) Hypergeometric Distribution 25. If $X \rightarrow NB$ (k, p) then a) mean<variance b) mean>variance b) mean=variance d) mean \leq Geometric Distribution

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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR Department of Statistics REMEDIAL COACHING

Students List

Sr. No.	Name of Student	Percentage	Sign
1.	Dhanashri Popat Chavan	44	enavon
2.	Pooja Sampat Patil	36	Pspechiel
3.	Varsha Yashwant Panhalakar	28	080
4.	Vaishnavi Vishwas Jadhav	48	V.V.Jaelhav
5.	Vinayak Rajaram Teli	48	- Anjudi
6.	Sourabh Sanjay Vadar	36	28-
7.	Harshad Kiran Patil	32	Pabilk.
8.	Rajkumar Baban Karpe	30	Sub
9.	Kedar Krushnat Powar	48	Parp-



Prof. Pawar atistics Departme Vivekanand College Kolhapu

Vivekanand College Kolhapur(Autonomous) Remedial Coaching

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Attendance Sheet

	STATISTICS B.Sc. II Attendance Sheet						
1 1	CATISTICS D.SC. II			2021-2022			
Sr No	Name	20/12/21	21/12/21	22/12/21	23/12/21	24/12/21	
_1	Dhanshri Popat chavan.	Paravan	Bahavan	Elhavan	Cenavas	Charge	
2	Pooja Sampat Patil.	व ाटोल	ह्याटी ख	ईवारोल-	इवारील-	झ्यादीलु-	
3	Varsha Yashquant Panhalkaz	Oto,	()sp_	Cop-	Cap_	080-	
4	Vaishnavi vishwas Jadhav	anna.	the	(John .	(Jola	foral.	
5	Vinayak Rajaram Teli	Jujudo	Auto	- Aujudos	Pipels	- ALLS	
6	Sourabh Sanjay Vadar	Z.	2	<u>S</u>	Do	20	
7	Harshad kiran Patil	Poteric	Paterle	Patric		Patotle	
8	Rajkumar Baban Karape	but -	But.	Let.	Bet	Suk	
9	Kedler Krughnat powar	B	EP-	Per	(ACP	legt.	
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Vivekanand College Kolhapur(Autonomous) Remedial Coaching Attendance Sheet

Attendance Sheet						
STATISTICS 2021-2022 27/12/21 28/12/21 29/12/21 80/12/21 31/12/2						
Sr No	Name	27/12/21		29/12/21		Scharg
1	Dhanshai Popat chavan.	Ednovan	echavan	Bobavon.	Ochardy	
2	Pooja Sampat Patil.	इंगारील,	डवारील	इवारीख	म्रिवाटील	इयाटील'
	Uarsha Yashavant Panhalkaz	QP-	(VAD)	020-	Nop.	080-
3	Vaishnavi Vish Was Jadhav		dag.	(Joural	for	Fallal
4		Ayues	Barres	tajeto	Enjusta.	Dies
5	Vinayak pajaram Teli	engase				
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7	Harshad kiran Patil			Bek_	But	bet .
8	Rajkumar Baban Karape	suk.	Bile	They	Jean	407
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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR Department of Statistics REMEDIAL COACHING

NOTICE

Date: 01/01/2022

All the students of B.Sc.II are hereby informed that, lectures of "Remedial Coaching" were conducted from 20/12/2021 to 31/12/2021. Those students who are participated their exam will be conducted on 04/01/2022 at 11.30 am to 12.00 pm.

Place : Department of Statistics, Room No. 38

Time

: 11.30 am to 12.00 pm



Hause Prof. V.V.Pawar statistics. vekanand College Kolhanu

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR Department of Statistics REMEDIAL COACHING

Marklist

Date: 5/01/2022

Sr. No.	Name of Student	Marks
1.	Dhanashri Popat Chavan	36
2.	Pooja Sampat Patil	34
3.	Varsha Yashwant Panhalakar	32
4.	Vaishnavi Vishwas Jadhav	36
5.	Vinayak Rajaram Teli	40
6.	Sourabh Sanjay Vadar	36
7.	Harshad Kiran Patil	34
8.	Rajkumar Baban Karpe	32
9.	Kedar Krushnat Powar	40





Vivekanand college, Kolhapur (Autonomous) Department of Statistics. Diagnostic Test for Statistics 2021-22 Class: B.Sc. II 1) If P(A)=0.3, P(B)=0.78, $P(A\cap B)=0.16$ then P(A|B)=...A10.21 B) 0.79 C) 0.53 D) 0.63 2) An important property of distribution function F (x), such as it is ... B) A decreasing function A) An increasing function C) A monotonically decreasing function D) A non – decreasing function 3) If X is a discrete r.v. with mean E(X) then $E[X - E(X)]^2$ is called A) Mean B) Variance C) Standard Deviation D) Second raw moment 4) If X has p.m.f. P (x) $= \frac{1}{k+1}$, x = 0, 1, 2... k and the mean of the distribution is 6. Then the value of k is ... C) 36 ND 12 A) 6 B) 18 5)A r.v. X follows discrete uniform distribution assuming the values -3, -2, -1, 0, 1, 2, 3 then mean and variance of X are ... B) 0.25 and 4 (C) 0 and 4 D) 7 and 4 A)4 and 6 6)When population is finite and sampling is done without replacement so that the events are statistically dependent although random then the distribution under consideration is ... B) Hyper geometric A) Bernoulli D) Discrete uniform C) Binomial 7) Let $\Omega = \{HH, HT, TH, TT\}$ and A and B are two events defined on sample space Ω then which of the following events shows partition of sample space Ω B) $A = \{HH\}, B = \{HT, TH, TT\}$ A) A = {HH, TT}, B = {HT, TH} D) All the above B) $A = \{HH, HT\}, B = \{TH, TT\}$ 8) The three regression plane coincide if, where $|\mathbf{R}|$ is the determinant of simple correlation coefficients. B) |R| = 1 C) |R| > 0ATR = 0D) |R| > 19) In a trivariate population, if $r_{12} = 0.75$, $r_{13} = 0.6$ and $r_{23} = 0.5$ then the value of $R^2_{1,23}$ is..... \$0.63 D)0.83 A)0.73 B)0.53 10) For the following distribution: 5 4 Х 2 3 1 0.3 0.25 0.15 0.2 P(x)0.1 The value of median is ... A)2 BF3 C) 4 D) Not exists 11) The component of time series attached to a long term variation is terms are ... A)Cyclical variations B) Seasonal variations C)Secular trend D) Irregular variations 12) The mean, median and mode of the distribution is 23,25 and 27 respectively then the distribution is

Nume Dhonoshin Popat Choron A Positively Skewed B) Symmetric D) Normal C)Negatively Skewed 12) Which of the following is not absolute measure of dispersion? A) Standard deviation B) Variance D) Mean deviation C)Coefficient of Variance 13) If the third ordered central moment (μ_3) is negative then the distribution is B) Skewed Negatively A) Symmetric D) Platykurtic C)Skewed Positively 14) If X follows Bernoulli distribution with parameter p and P(X = 0) = 2P(X = 1) then value of q is equal to ... $A)\frac{1}{3}$ B) $\frac{2}{3}$ C) $\frac{1}{2}$ D) $\frac{1}{4}$ 15) If X & Y are independent random variable then A) Cov. (X, Y) =0 B) Corr(X, Y)=0 C) E(XY)=E(X). E(Y) D) All of them 16) If X has Poisson distribution with E(X) = 3 then V(2x+3) is... A) 12 B) 3 C) 6 D) 0 17) Let X has geometric distribution with parameter 0.2 then its mean is A) $\frac{1}{4}$ B) $\frac{1}{2}$ C) $\frac{3}{4}$ D) $\frac{4}{4}$ 18) If X follows NBD (k, p) then variance of X is..... B) $\frac{kq}{p}$ C) $\frac{kp}{a^2}$ D) $\frac{kq}{2}$ 19) If $f(x,y) = e^{-(x+y)}$, $x,y \ge 0$ then marginal distribution of X is..... A) e^x B) e^y $D e^x$ D) e^y 20) In time series Analysis, when the change is by constant rate then model used is A) Additive B) Multiplicative C) Mixed D) Exponential. 21)If correlation between x and y is -0.3, then correlation between y and x is A)0.3 B)-0.3 C) Zero D) None of these is used for finding value of mode graphically. 22) A) Simple Bar diagram B)Histogram C)Ogive Curves DNone of these 23) If C.V.(A) > C.V.(B) then which of the following is false statement? (A) A is less consistent than B. B)B is more consistent than A. B) A is more consistent than B. UDIAll the above 24) The value of Cov (ax + b, cy + d) is equal to . A ac cov (x,y) B) bd cov (x,y) C)ac cov (x,y) - bd D)2ac cov (x,y)25) Which of the statements is/are true/false? I: Regression coefficient always lies between 0 to ∞ . II: Correlation coefficient always lies between 0 to 1. C)Both are true D)Both are false. A)Only I is true B)Only II is true

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR Department of Statistics REMEDIAL COACHING

Progress Report

Date:

Sr. No.	Name of Student	Previous Marks	Remedial Class Marks	Progress
1.	Dhanashri Popat Chavan	440%	72%	48.287.
2.	Pooja Sampat Patil	36 %	6 80%	61.541.
3.	Varsha Yashwant Panhalakar	28%	640/0	78,26%
4.	Vaishnavi Vishwas Jadhav	48 %	720/0	40.001.
5.	Vinayak Rajaram Teli	48%	80%	50,001.
6.	Sourabh Sanjay Vadar	36%	720/0	66-67-1.
7.	Harshad Kiran Patil	32%	68 %	72,00%.
8.	Rajkumar Baban Karpe	30%	64 %	72-34-1
9.	Kedar Krushnat Powar	48%	80%	50,00%



Marsh Prof. V. V. Pawaran HOD College Kolhabu Wekanand



 "Education for Knowledge, Science and Culture" -Shikshanmaharshi Dr. Bapuji Salunkhe
VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)
INTERNAL QUALITY ASSURANCE CELL 2021-22



Report on Remedial Coaching

Aim –To make every student excellent in their academic performance. Objectives – To improve skills and abilities in each student.

- 1. Day and Date 20/12/2021 to 31/12/2021 (For B.Sc. II)
- 2. Venue- Room No. 38
- 3. Resource people Faculty members
- 4. Number of beneficiaries 09 (04 Girls+05 Boys)

5. Brief Description:

For the remedial coaching we conducted a diagnostic test for B.Sc. II students on 23rd December 2021. Depending on their scores, those who have scored less than 40% marks, were considered as slow learners. For the slow learners, we conducted extra coaching from 20/12/2021 to 31/12/2021 to improve their knowledge on the topics in which they were poor and to improve their problem-solving skill we gave them assignments.

6. Output-

Students improved their knowledge and were able to solve problems.





Ms. V EATT OF ISSATISTICS ND COLLEGE, KOLHAPUR (AUTONOMOUS)