

ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार
शिक्षण महर्षी डॉ. बापूजी साळुंसे




VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

Department of Statistics


REMEDIAL COACHING

2022-2023

12 September, 2022 to 22 September, 2022
(For B.Sc.I)


Ms. P. C. Patil
Co-ordinator




Ms. V. V. Pawar
Head
Department of Statistics
Vivekanand College, Kolhapur
HOD
(Autonomous)

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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.



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Ms. V. V. Pawar
Department of Statistics
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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

Department of Statistics
REMEDIAL COACHING

NOTICE

Date: 15/09/2022

All the students of B.Sc.I (Statistics) are hereby informed that, lectures of "Remedial Coaching" will be conducted from 12/09/2022 to 22/09/2022. Those students should be present for lectures.

Place : Department of Statistics, Room No. 33

Time : 3.00 pm to 4.00 pm

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

Ms. P.C. Patil (7757899082)



V. V. Pawar
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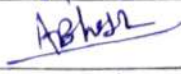

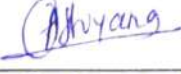
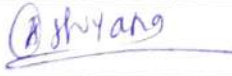


VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

Department of Statistics REMEDIAL COACHING

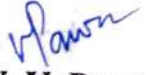
TIMETABLE

Date: 12/09/2022 to 22/09/2022 (Ten Days)

Time: 3.00 pm to 4.00 pm

| Sr. No. | Date | Name of Teacher | Sign |
|---------|------------|----------------------|---|
| 1. | 12/09/2022 | Prof. V. V. Pawar |  |
| 2. | 13/09/2022 | Prof. V. V. Pawar |  |
| 3. | 14/09/2022 | Prof. A. B. Bhosale |  |
| 4. | 15/09/2022 | Prof. A. B. Bhosale |  |
| 5. | 16/09/2022 | Prof. A. M. Makandar |  |
| 6. | 17/09/2022 | Prof. A. M. Makandar |  |
| 7. | 19/09/2022 | Prof. P. C. Patil |  |
| 8. | 20/09/2022 | Prof. P. C. Patil |  |
| 9. | 21/09/2022 | Prof. S.S. Patil |  |
| 10. | 22/09/2022 | Prof. S.S. Patil |  |




Ms. V. V. Pawar
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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. | Unit 1 | Sample space & Event | 1 |
| 2. | Unit 2 | Probability | 2 |
| 3. | Unit 3 | Conditional Probability | 2 |
| 4. | Unit 4 | Independence of Event | 1 |
| 5. | Unit 5 | Mathematical Average, Positional Average & Typical Average | 2 |
| 6. | Unit 6 | Bernoulli Distribution & Binomial Distribution | 2 |



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24/50

"ज्ञान विज्ञान आणि सुसंस्कार यासाठी शिक्षण प्रसाद" शिक्षणमहर्षी डॉ. जापूजी साळुंखे.

Shri Swami Vivekanand Shikshan Santha's
VIVEKANAND COLLEGE, KOLHAPUR
DEPARTMENT OF STATISTICS

Diagnostic Test For Remedial Coaching B.Sc. I

Date:

Time:

Marks: 50

1. All Questions are compulsory.

2. Each Question carry 2 Marks

Name of Student:- Snehal Khopkar

1. _____ is not based on all observations.

- A) A.M.
- B) G.M.
- C) H.M.
- D) Mode

2. The value of median for the data 3, 1, 9, 7, 0, 4, 2, 5 is...

- A) 4.5
- B) 3.5
- C) 8
- D) None of them

3. Quartiles divide the data into _____ equal parts.

- A) 2
- B) 3
- C) 4
- D) 10

4. Mean of first n natural number is _____.

- A) $\frac{n+1}{2}$
- B) $\frac{n(n+1)}{2}$
- C) $\frac{n}{2}$
- D) None of these

5. Point of intersection of Less than ogive curve and more than ogive curve is _____.

- A) (N/2, Median)
- B) (Median, N/2)
- C) (N, Median)
- D) (Median, N)

6. A primary data is a data collected from _____

- A) Office record
- B) Direct interview
- C) Bulletins
- D) Annual records

7. The mean and variance of the series 7, 7, 7, 7, 7, is _____.

- A) (0, 7)
- B) (7, 0)
- C) (7, 14)
- D) (7, 7)

8. Consider the following probability distribution:

| | | | | |
|------|------|------|------|------|
| X | 1 | 2 | 3 | 4 |
| P(x) | 0.25 | 0.25 | 0.25 | 0.25 |

The value of Mean is equal to:

- A) 2.5
- B) 3
- C) 1
- D) may not be unique

9. If r.v. X has binomial distribution with parameters n and p, then.....

- A) mean < variance
- B) mean > variance
- C) mean = variance
- D) mean ≤ variance

10. If $X \rightarrow B(n, p)$ and $E(X) = 5/3$, $\text{var}(X) = 10/9$. Then the value of q is.....

- A) 1/3
- B) 2/3
- C) 1/6
- D) 5/6

11. Find the value of n, If ${}^n P_3 = 5 \cdot {}^n P_2$

- A) 5
- B) 7
- C) 6
- D) None of these

12. The total number of all possible outcomes when a die is rolled once and a card is drawn from a deck of card is....

- A) 58 B) 324 C) 312 D) 302

13. The relationship between permutation and combination is...

- ~~A) $r! {}^n P_r = {}^n C_r$~~ B) $r! {}^n C_r = {}^n P_r$ C) ${}^n P_r = {}^n C_r$ D) None of these

14. If A and B are any events and $P(A)=2/5$, $P(B)=1/4$, $P(A \cup B)=1/2$ then $P(A \cap B)=...$

- ~~A) 3/20~~ B) 4/15 C) 7/20 D) 8/15

15. How many ways are there to arrange the letters in the word MOTHER with the vowels alphabetical order?

- A) 120 B) 240 C) 360 D) 480

16. The number of permutations of all the letters in the word BALBHARATI is...

- A) 10! B) $\frac{10!}{2!2!}$ C) $\frac{10!}{2!3!}$ D) $\frac{10!}{3!2!2!}$

17. Three coins are tossed simultaneously. The probability of getting at most 2 tails is...

- ~~A) 3/8~~ B) 1/8 C) 3/4 D) 7/8

18. The probability of certain event is...

- ~~A) 0~~ B) 1 C) 0.5 D) None of these

19. The range of the values -4, -20, -30, -44, -36 is

- ~~A) -48~~ B) 40 C) -40 D) 48

20. If the variance of the data is 121, then the standard deviation of the data is ...

- A) 121 B) 11 C) 2 D) 12

21. Two dice are rolled. The probability that the product of the numbers on the dice is perfect square is...

- ~~A) 2/9~~ B) 7/36 C) 1/6 D) 1/9

22. If $P(A')=0.6$, $P(B)=0.8$ and $P(B/A) 0.3$, then $P(A/B) =...$

- A) 3/4 B) 9/20 C) 7/20 D) 3/20

23. If A and B are independent events and $P(A)=3/5$, $P(B)=2/3$, then $P(A' \cap B') =...$

- ~~A) 2/15~~ B) 4/15 C) 1/ D) 7/15

24. Coefficient of variation is computed by....

- A) $\frac{S.D.}{|Mean|}$ B) $\frac{|Mean|}{S.D.}$ C) $\frac{S.D.}{|Mean|} * 100$ D) $\frac{|Mean|}{S.D.} * 100$

25. The probability of impossible event is...

- A) 0 B) 1 C) 0.5 D) None of these

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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

**Department of Statistics
REMEDIAL COACHING**

Students List

| Sr. No. | Name of Student | Percentage | Sign |
|---------|--------------------------|------------|--------------------|
| 1. | Snehal Khopakar | 48 % | <i>Khopakar</i> |
| 2. | Sharayu Prakash Sutar | 48 % | <i>Sutar</i> |
| 3. | Abhijeet Laxman Kalake | 40 % | <i>Kalake</i> |
| 4. | Avishkar Kamble | 32 % | <i>Kamble</i> |
| 5. | Sahil Chetan Patanekar | 40 % | <i>Patanekar</i> |
| 6. | Manasi Madhukar Patil | 40 % | <i>Manasi</i> |
| 7. | Samruddhi Sanjay Bhosale | 44 % | <i>Bhosale</i> |
| 8. | Shweta R. Salokhe | 32 % | <i>Salokhe</i> |
| 9. | Rutuja Ramesh Thanekar | 36 % | <i>Rutujanekar</i> |
| 10. | Abhishek Bhagvan Patil | 28 % | <i>Patil</i> |
| 11. | Riddhi Satyawar Raorane | 36 % | <i>Raorane</i> |
| 12. | Prerana Vishwas Patil | 40 % | <i>Patil</i> |
| 13. | Pratiksha Tanaji Shinde | 20 % | <i>Pratiksha</i> |
| 14. | Suhani Madhav Vhatkar | 22 % | <i>Svhatkar</i> |



V. V. Pawar
Ms. V. V. Pawar
Head
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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

**Department of Statistics
REMEDIAL COACHING**

NOTICE

Date: 23/09/2022

All the students of B.Sc.I are hereby informed that, lectures of "Remedial Coaching" were conducted from 12/09/2022 to 22/09/2022. Those students who are participated their exam will be conducted on 26/09/2022 at 10.30 am to 11.00 am.

Place : Department of Statistics, Room No. 33

Time : 10.30 am to 11.00 am.



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Department HOD Statistics
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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

**Department of Statistics
REMEDIAL COACHING**

Marklist

Date:

| Sr. No. | Name of Student | Marks |
|---------|--------------------------|-------|
| 1. | Snehal Khopakar | 36 |
| 2. | Sharayu Prakash Sutar | 34 |
| 3. | Abhijeet Laxman Kalake | 38 |
| 4. | Avishkar Kamble | 28 |
| 5. | Sahil Chetan Patanekar | 32 |
| 6. | Manasi Madhukar Patil | 34 |
| 7. | Samruddhi Sanjay Bhosale | 36 |
| 8. | Shweta R. Salokhe | 34 |
| 9. | Rutuja Ramesh Thanekar | 36 |
| 10. | Abhishek Bhagvan Patil | 30 |
| 11. | Riddhi Satyawan Raorane | 38 |
| 12. | Prerana Vishwas Patil | 40 |
| 13. | Pratiksha Tanaji Shinde | 26 |
| 14. | Suhani Madhav Vhatkar | 42 |



V. Pawar
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DEPARTMENT OF STATISTICS
VIVEKANAND COLLEGE, KOLHAPUR
(AUTONOMOUS)
HOD

- 1) All observations in a data set are equal then median of the data set is equal to the value of ...
 A) One of the observations B) Mean
 C) Mode D) All of the above
- 2) Which of the following is not positional average?
 A) Median B) Range
 C) Quartile D) Deciles
- 3) In a class test 40 students, out of 50 are passed with average 6.0 and the overall average of a whole class is 5.5 then find the average of failed students.
 A) 5.5 B) 6.8 C) 4.8 D) 3.5
- 4) Two series having same mean, median mode then these two series are
 A) have same values B) not have same values
 B) both (A) and (B) D) none of these
- 5) The first raw moment about origin is _____.
 A) Zero B) Mean C) One D) Variance
- 6) The mean, median and mode of the distribution is 87, 79 and 65 respectively then the distribution is _____.
 A) Positively Skewed B) Negatively Skewed
 B) Symmetric D) Normal
- 7) If population is homogeneous, then _____ is better method of sampling
 A) SRS B) Stratified C) Systematic D) None of these
- 8) Jersey number on T-shirt of a player is _____.
 A) Ordinal scale B) Ratio Scale C) Nominal Scale D) Interval scale
- 9) Sum of squares of deviation taken from mean is always _____.
 A) Zero B) One C) Minimum D) None of these
- 10) If a constant value 10 is subtracted from each observation of a set, the variance is _____.
 A) Increased by 100 B) Decreased by 10
 B) Decreased by 100 D) Not changed
- 11) If $B \subset A$ then $P(A/B)$ is -----
 A) 0 B) $P(A)/P(B)$ C) 1 D) $P(B)/P(A)$
- 12) In a single throw of a die, the variable X denotes outcome of an experiment then X is
 A) Discrete random variable B) Continuous random variable
 C) Both (i) and (ii) D) none of these

- 13) If A and B are any two events defined on sample space Ω , then $P(A^c \cap B) =$
 A) $P(A) - P(A \cap B)$ B) $P(B) - P(A \cap B)$ C) $P(A) \cdot P(B)$ D) $P(A^c) \cdot P(B)$
- 14) The probability of an event always lies between.....
 A) $-\infty$ to ∞ B) 0 to 1 C) -1 to 1 D) 0 to ∞
- 15) If $P(A) = 0.4$ and $P(B) = 0.6$ are independent events then $P(A \cap B)$ is
 A) 0.36 B) 0.24 C) 1 D) 0
- 16) If $P(A) = 0.4$ and $P(B) = 0.4$ are independent events then $P(A/B)$ is
 A) 0.2 B) 0.16 C) 0.4 D) 0
- 17) Two coins are tossed simultaneously, the sample space contains----- number of outcomes.
 A) 1 B) 2 C) 3 D) 4
- 18) If A and B are two mutually exclusive events defined as Ω , then $P(A \cap B)$ is equal to.....
 A) $P(A) + P(B) + P(A \cap B)$ B) $P(A) \cdot P(B)$ C) $P(A) + P(B)$ D) 0
- 19) If $P(A) = 0.3$ and $P(B) = 0.4$ are two mutually exclusive events defined as sample space Ω , then $P(A \cap B)$ is equal to.....
 A) 0.7 B) 0.3 C) 0.4 D) 0
- 20) Among following statements----- is true
 A) A and A^c form partition of Ω
 B) A and Ω form partition of Ω
 C) A and A^c do not form partition of Ω
 D) Only two events cannot form a partition of Ω
- 21) The Probability of sure event is ----- .
 A) 0 B) 1 C) NOT defined D) All the above
- 22) If A and B are independent then
 A) $P(A \cup B) = P(A) + P(B)$ B) $P(A \cup B) = P(A) \cdot P(B)$
 C) $P(A \cap B) = P(A) + P(B)$ D) $P(A \cap B) = P(A) \cdot P(B)$
- 23) If A and B are independent then $P(A/B)$ is
 A) $P(A)$ B) $P(B)$ C) Both A & B D) None of these
- 24) If A and B are mutually exclusive then $P(B/A)$ is
 A) 0 B) 1 C) $P(A)$ D) $P(B)$
- 25) If $P(A) = P(B)$. A B are B are independent then $P(A/B)$ is...
 A) 0 B) 1 C) $P(A)$ D) $P(B)$

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

Progress Report

Date:

| Sr. No. | Name of Student | Previous Marks | Remedial Marks | Progress |
|---------|--------------------------|----------------|----------------|-----------|
| 1. | Snehal Khopakar | 24 | 36 | 40 % |
| 2. | Sharayu Prakash Sutar | 24 | 34 | 34.4828% |
| 3. | Abhijeet Laxman Kalake | 20 | 38 | 62.0690% |
| 4. | Avishkar Kamble | 16 | 28 | 54.5455% |
| 5. | Sahil Chetan Patanekar | 20 | 32 | 46.1539% |
| 6. | Manasi Madhukar Patil | 20 | 34 | 51.8519% |
| 7. | Samruddhi Sanjay Bhosale | 22 | 36 | 48.2759% |
| 8. | Shweta R. Salokhe | 16 | 34 | 72.0000% |
| 9. | Rutuja Ramesh Thanekar | 18 | 36 | 66.6667% |
| 10. | Abhishek Bhagvan Patil | 14 | 30 | 72.7273% |
| 11. | Riddhi Satyawar Raorane | 18 | 38 | 71.4286% |
| 12. | Prerana Vishwas Patil | 20 | 40 | 66.6667% |
| 13. | Pratiksha Tanaji Shinde | 10 | 26 | 113.0435% |
| 14. | Suhani Madhav Vhatkar | 22 | 42 | 62.5%. |



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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR
Department of Statistics
REMEDIAL COACHING
2022-2023

12 September, 2022 to 22 September, 2022

Report

On behalf of the Statistics department, to organize remedial coaching classes for the development of comprehension skills for average students and to acquire knowledge of Statistical concepts from 12th September, 2022 to 22nd September, 2022 from 10.30 am to 11.30 am daily with attachments of Syllabus, Time Table, Student Attendance, Photographs, Question Papers. In this remedial coaching class of B.Sc.I, 14 students participated spontaneously. This coaching class was planned by Mr. A. B. Bhosale, Ms. A. M. Makandar, Ms. P. C. Patil Ms. S. S. Patil. Principal of the college, Mr. R. R. Kumbhar and Head of Statistics Department Ms. V. V. Pawar. This report is being submitted for the information of the college.



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