

2017-18

Solution to problem 3-2017-18

Congratulations. This time the correct solution has been provided by the following students

1. Ms. Diksha Korde – M.Sc Sem 3
2. Mr. Nehal Harshe .- M.Sc Sem 3
3. Ms. Swathi Iyer- M.Sc Sem 1
4. Mr. Nikhil Thakre – M.Sc Sem 1

Solution to problem no. 4 has been given by only Diksha Korde. Congatulations.

The activity of the problem

corner will resume after the Diwali
vacations.

Wishing All readers and solvers of
the PROBLEM CORNER a very HAPPY
DIWALI.

Y
hann
12/10/17

Problem 2: 2017_18

A bag contains an assortment of blue and red balls. Two balls are drawn at random without replacement. The probability of drawing two red balls is 5 times the probability of drawing two blue balls. Further, the probability of drawing one ball of each colour is 6 times the probability of drawing two blue balls. Find the number of red and blue balls in the bag.

Submit your answers on or before 23rd September 2017.

Yaman

2017-18

Solution to problem 2-2017-18

Congratulations. This time the correct solution has been provided by the following students

1. Ms. Diksha Korde – M.Sc Sem 3
2. Ms. Swathi Iyer- M.Sc Sem 1
3. Ms. Pranoti Kulkarni.- M.Sc Sem 1.

The best solution is displayed here.

Problem No. 3 :

A set of 5 integers has mean 12, median 8, mode 8 and range 18. Find atleast one such set.

Problem No.4:

A two digit number is such that twice the product of its digits reverses the original number. Find all such numbers.

Submit your answers by 10.10.2017.

Last date
extended.

B. Sc student can also submit

Solution Problem 3

A set of five integers have mean 12, median 8, mode 8 and range 18.

Suppose the 5 integers are a, b, c, d, e such that 'a' is smallest number and 'e' is the largest number.

Since Median is 8 and there are odd no. of integers, $\therefore c = 8$

Also, mode is 8, there must be more 8's than any other number.

So, let us take $b = 8$.

Now, since 'a' is the smallest number so it should be less than 8 or equal to 8.

But if we take $a = 1$ or 2 then 'e' won't be the greatest no. so we take $a = 3, 4, 5, 6, 7$ or 8

Now, Range = 18

So, $e - a = 18$

For $a = 3, e = 21$.

Similarly for $a = 4, 5, 6, 7$ and $8 \Rightarrow e = 22, 23, 24, 25$ and 26 resp.

Mean = 12 $\Rightarrow (a + b + c + d + e) / 5 = 12$

$$\Rightarrow (3 + 8 + 8 + d + 21) / 5 = 12$$

$$\Rightarrow d = 60 - 40 = 20$$

\therefore One set of integers is $(3, 8, 8, 20, 21)$.

Other sets can be $(4, 8, 8, 18, 22)$, $(5, 8, 8, 16, 23)$, $(6, 8, 8, 14, 24)$, $(7, 8, 8, 12, 25)$, $(8, 8, 8, 10, 26)$

Solution Problem 4

Let the original number be xy i.e. $10x + y$ (x being the tens digit and y being the units digit).

According to the given problem ~

$$2(x * y) = 10y + x \quad [\because \text{Reverse no.}]$$

$$\Rightarrow x(2y - 1) = 10y$$

$$\Rightarrow x = \frac{10y}{2y - 1}$$

Now $y = 1 \Rightarrow x = 10$

$$y = 2 \Rightarrow x = \frac{20}{3}$$

$$y = 3 \Rightarrow x = \frac{30}{5} = 6 \quad \checkmark$$

$$y = 4 \Rightarrow x = \frac{40}{7}$$

$$y = 5 \Rightarrow x = \frac{50}{9}$$

$$y = 6 \Rightarrow x = \frac{60}{11}$$

$$y = 7 \Rightarrow x = \frac{70}{13}$$

$$y = 8 \Rightarrow x = \frac{80}{15}$$

$$y = 9 \Rightarrow x = \frac{90}{17}$$

$$y = 0 \Rightarrow x = 0$$

\therefore The original no. is $10x + y = 10(6) + 3 = 63$ such that twice the product of its digits reverses i.e. $2(6 \times 3) = 3 \times 18 = 36$

Submitted by -

Diksha.K

2016-17 -1

PROBLEM CORNER

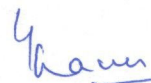
Session 2016-17

The Department of Statistics invites B.Sc and M.Sc students (belonging to any group) interested in solving STATISTICS /MATHEMATICS problems to participate in this activity.

Every week/ fortnight a challenging problem related to Mathematics / Statistics will be displayed. Interested students can solve it and submit the same in the Dept.of Statistics . Every correct solution will fetch 25 points. Only the best solution will be displayed. Any student who solves three problems correctly will get a bonus of 15 points.

THE STUDENT WITH THE MAXIMUM SCORE WILL BE AWARDED A PRIZE AT THE END OF THE SESSION.

So what are you waiting for? Put on your thinking caps and get ready to score. Here is your first problem.



(K.S.Bhanu)

Problem 1_2016_17

Three positive integers a , b , and c are such that $a \leq b \leq c$ and their mean is 20 .

If the median is $(a + 11)$, what is the least possible value of c ?



(K.S.Bhanu)

Submit your answers in the department latest by 4th October 2016.

Exercise 1:

Ans:-

let three +ve integers are a, b, c such that $a \leq b \leq c$.

Given that mean = $\frac{a+b+c}{3} = 20 \Rightarrow a+b+c = 60$.

Median = $\frac{a+b+c}{2} = a+11 \Rightarrow a+b+c = 2a+22 = 60$

$\Rightarrow a = 19$ $\therefore a \leq b \leq c$.

$\therefore b+c = 41$.

the possible pairs becomes.

b	c	($\because b \leq c$) and $a=19$ but $a \leq b$
1	40	
2	39	
3	38	
\vdots	\vdots	
20	21	

the least possible value of c is 21.

\therefore the three possible values are

19, 20, 21. Satisfy $19 \leq 20 \leq 21$.

$\therefore a=19, b=20$ and $c=21$.

✓

PROBLEM CORNER

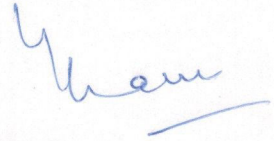
Session 2015-16

The Department of Statistics invites B.Sc and M.Sc students (belonging to any group) interested in solving STATISTICS /MATHEMATICS problems to participate in this activity.

Every week/ fortnight a challenging problem related to Mathematics / Statistics will be displayed. Interested students can solve it and submit the same in the Dept.of Statistics . Every correct solution will fetch 25 points. Only the best solution will be displayed. Any student who solves three problems correctly will get a bonus of 15 points.

THE STUDENT WITH THE MAXIMUM SCORE WILL BE AWARDED A PRIZE AT THE END OF THE SESSION.

So what are you waiting for? Put on your thinking caps and get ready to score. Here is your first problem.



(K.S.Bhanu)

Head, Dept.of Statistics

PROBLEM 1 (2015-16)

A fair die is thrown three times. Let the random variables X_1 , X_2 , X_3 denote the results of the three throws.

Find Prob [$X_1 > X_2 + X_3$]

2015-16

Congrats

Solution to Problem 1

The following students have correctly solved the first problem.

1. Bhagyashree Joshi – B.Sc I
2. Mayur - M.Sc II *Mahurkar*
3. Sharvati Meshram – M.Sc II
4. Asha Kayarwar – M.Sc II
5. Akash Oksiya – M.Sc I

However, only Sharavati and Asha have given the easiest solution. One of them is displayed here.

K.S. Bhanu
(K.S.Bhanu) 11/9/15

Name :- Aasha. B. Kojareware

2015-16 P1

Msc. IInd yr

Problem - I

Solⁿ :- Let $Y = X_2 + X_3$

The probability distribution of Y is (Remember that $X_1 > Y$ only if $Y = 2, 3, 4, 5$)

Y	2	3	4	5
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$P(Y)$	$1/36$	$2/36$	$3/36$	$4/36$
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Now, $X_1 > 2 > 3 > 4 > 5$

$P(X_1)$	$4/6$	$3/6$	$2/6$	$1/6$
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$$\therefore P(X_1 > Y) = P(X_1 > 2 \cap Y = 2) + P(X_1 > 3 \cap Y = 3) \\ + P(X_1 > 4 \cap Y = 4) + P(X_1 > 5 \cap Y = 5)$$

Where,

$$2 \cap Y = \{x: x \in 2 \text{ and } x \in Y\}$$

In general,

$$A \cap B = \{x: x \in A \text{ and } x \in B\}$$

using set theory

$$\therefore P(X_1 > Y) = (4/6 \times 1/36) + (3/6 \times 2/36) + (2/6 \times 3/36) + (1/6 \times 4/36) \\ = \frac{4+6+6+4}{216}$$

$$= \frac{20}{216}$$

$$\Rightarrow \boxed{P(X_1 > Y) = \frac{5}{54}} \quad \text{--- Ans}$$

OR $P(X_1 > X_2 + X_3) = 5/54 \quad \text{--- Ans.}$

Problem I (2015-16)

Que: A fair die is thrown three times. Let the random variables X_1, X_2, X_3 denote the results of the three throws.

Find $P[X_1 > X_2 + X_3]$.

Solution 1:

Here, the number of possible outcomes from each die is 6 viz., 1,2,3,4,5,6. And number of trials are 3 as the die is thrown three times.

Hence, the total number of possible outcomes for the experiment is $6^3 = 216$

Let the random variables X_1, X_2, X_3 denote the results of the three throws.

Our aim is to find, $P[X_1 > X_2 + X_3]$. Let (x_1, x_2, x_3) be the outcome of X_1, X_2, X_3 respectively

So, the outcomes which are favorable to our aim are as follows:

(3,1,1)

(4,1,1) (4,1,2) (4,2,1)

(5,1,1) (5,1,2) (5,1,3) (5,2,1) (5,2,2) (5,3,1)

(6,1,1) (6,1,2) (6,1,3) (6,1,4) (6,2,1) (6,2,2) (6,2,3) (6,3,1) (6,3,2) (6,4,1)

Therefore, the total number of favorable outcomes is $19+1 = 20$.

Hence, required probability = $\frac{19+1}{216} = \frac{20}{216}$.

$$= \frac{20}{216}$$

$$= 0.0925925925$$

PROBLEM 2 (2015-16)

The probability of a man hitting a target is $\frac{1}{4}$. How many times must he fire so that the probability of his hitting the target at least once is greater than $\frac{2}{3}$?

Submit your answers by 20th September.

Y
Kaur

Congrats

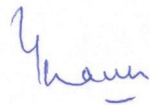
Solution to Problem 2

The following students have correctly solved the second problem.

1. Bhagyashree Joshi – B.Sc I
2. Mayur Mahurkar - M.Sc II
3. Sharvati Meshram – M.Sc II
4. Asha Kayarwar – M.Sc II
5. Laxmikant Hatewar– M.Sc II
6. Madhumita Roy- M.sc I

There has been a good response to this problem with students attempting the solution in two different ways

Two of them are displayed here.


(K.S.Bhanu)

Solution to Problem No.2 (2015-16)

Let p be the probability of a man hitting the target and q be the probability of a man not hitting the target .

If he fires ' n ' times, the probability of him not hitting the target is q^n .

Therefore the probability that he hits the target atleast once = $1 - q^n$.

We have to find the **smallest value of n** such that $1 - q^n > 2/3$.

In other words $q^n < 1/3$.

Given $p = 1/4$, $q = 3/4$. Thus we have to find n for which $(3/4)^n < 1/3$.

Putting $n = 1, 2, 3, \dots$ we see that

$$(3/4) > 1/3, \quad (3/4)^2 = 9/16 > 1/3, \quad (3/4)^3 = 27/64 > 1/3$$

But $(3/4)^4 = 81/256 < 1/3$. Thus $n = 4$. **i.e he must fire 4 times.**

Name:- Sharavati k. Meshram

Msc-II yr

2015-16

Problem no-2

Solⁿ:- Here the probability of a man hitting a target is $\frac{1}{4}$.

This means the probability of a man missing a target is $\frac{3}{4}$.

Here we have to find that,

How many times he fires such that the probability of his ~~a target~~ hitting a target at least once is greater than $\frac{2}{3}$.

So, In first trial,

The probability that he will not hit target is $\frac{3}{4}$.

$$\therefore P[\text{he hit the target}] = 1 - \frac{3}{4} = \frac{1}{4} < \frac{2}{3}$$

In 2nd trial

The probability that he will not hit target is $\frac{3}{4} \times \frac{3}{4} = \frac{9}{16}$.

$$\therefore P[\text{he hit the target at 2nd trial}] = 1 - \frac{9}{16} = \frac{7}{16} < \frac{2}{3}$$

In 3rd trial

The probability that he will not hit the target is $\left(\frac{3}{4}\right)^3 = \frac{27}{64}$.

$$\therefore P[\text{he hit the target at 3rd trial}] = 1 - \frac{27}{64} = \frac{37}{64} < \frac{2}{3}$$

Problem 2. (2015-16).

Solution 2:

Let,

X be the number of successes (no. of times target is hit)

n be the number of trials (fires)

p be the probability of success.

The given problem is a case of binomial distribution where,

$$p = \frac{1}{4}, \quad q = 1 - \frac{1}{4} = \frac{3}{4}$$

And our aim is to find n such that,

$$P[X \geq 1] > \frac{2}{3}$$

$$\Rightarrow 1 - P[X = 0] > \frac{2}{3}$$

$$1 - \binom{n}{0} (1/4)^0 (3/4)^{n-0} > \frac{2}{3}$$

$$1 - \left(\frac{3}{4}\right)^n > \frac{2}{3}$$

$$\frac{1}{3} > \left(\frac{3}{4}\right)^n$$

Taking *log* on both sides

$$\log\left(\frac{1}{3}\right) > n \log\left(\frac{3}{4}\right)$$

$$\log 1 - \log 3 > n(\log 3 - \log 4)$$

$$0 - 0.477 > n(0.477 - 0.602)$$

$$0.4771 < n \cdot 0.125$$

$$\therefore n = \frac{0.4771}{0.125} = 3.816$$

Since, the number of trials cannot be in fraction.

$$\therefore n \cong 4$$

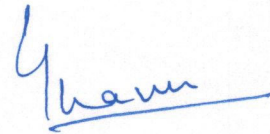
Therefore, the man must fire 4 times to achieve the desired probability.

PROBLEM 3 (2015-16)

Who discovered the axiomatic approach to probability?

Three dice are rolled simultaneously. What is the probability of getting different outcomes on each of the three dice. Will it be greater or less than $\frac{1}{2}$?

Submit your answers by 5th October.



(K.S.Bhanu)

Solution 3 (2015-16):

One of the difficulties in developing a mathematical theory of probability has been, ^{to} arrive at a definition of probability that is precise enough for use in mathematics, yet comprehensive enough to be applicable to a wide range of phenomena. The search for a widely acceptable definition took nearly three centuries and was marked by much controversy. The matter was finally resolved in 20th century by treating probability theory on an axiomatic basis. In 1933 a monograph by a Russian mathematician **Andrey Nikolaevich Kolmogorov** outlined an axiomatic approach that forms the basis for the modern theory.

$P(A)$ is the probability measure or function defined on a σ -field \mathcal{B} of the events if the following properties or axioms hold.

1. For each $A \in \mathcal{B}$, $P(A)$ is defined, is real and, $P(A) \geq 0$.

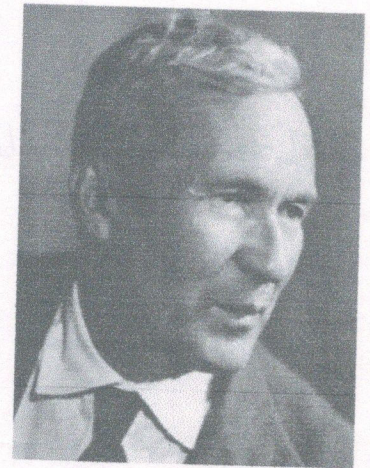
(Axiom of non-negativity)

2. $P(S) = 1$

(Axiom of certainty)

3. If $\{A_n\}$ is any finite or infinite sequence of disjoint events in \mathcal{B} , then

$$P\left(\bigcup_{i=1}^n A_i\right) = \sum_{i=1}^n P(A_i) \quad \text{(Axiom of additivity)}$$



(A. Kolmogorov)

3 dices are rolled simultaneously and the total number of possible outcome from each die is 6.

Therefore, the total number of possible outcomes for the experiment is $6^3=216$.

Our aim is to find the probability of getting different outcomes on each of the three dice.

Considering the required condition, we can say that we have 6 choices of numbers as the outcome of the first die (i.e any number from 1,2,3,4,5,6). But the number of choices reduces to 5 as the outcome of the second die (i.e., any number from 1,2,3,4,5,6 except the number which is the outcome of the first die). Similarly the number choices reduce to 4 (any number except both of those which are outcome of 1st and 2nd die) for the third die.

Hence, total number of favorable outcome becomes: $\binom{6}{1} \times \binom{5}{1} \times \binom{4}{1} = 120$

So, the required probability is: $\frac{120}{216} = 0.55555555$; which is slightly greater than $\frac{1}{2}$.

$= 5/9$

Bhagyashree Sanjay Jashi
 Group: PSM
 B.Sc 1st year.

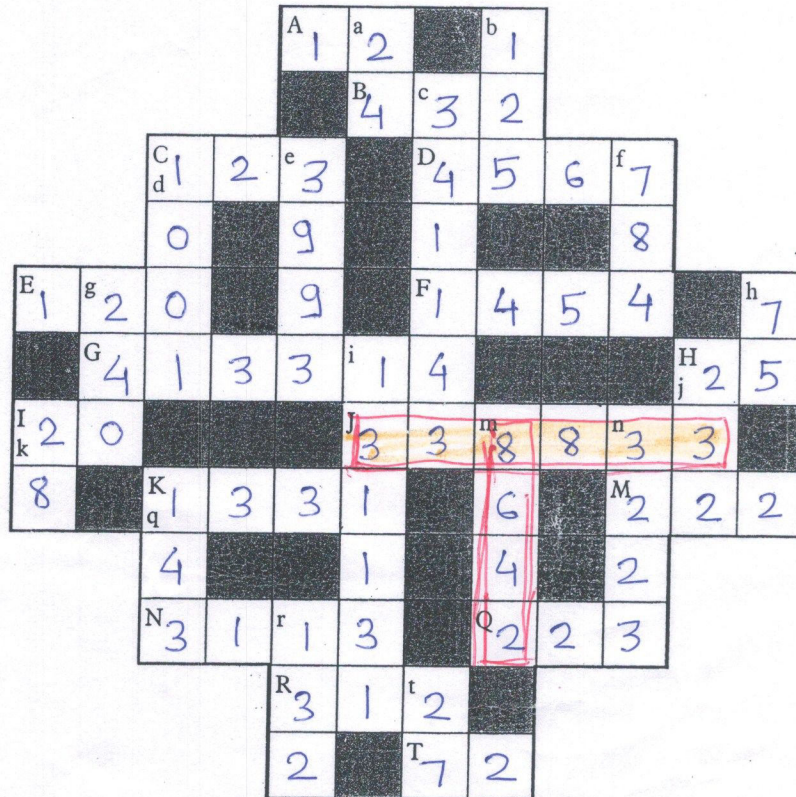
CROSS

NUMBER

PUZZLES

CONGRATS!!

by Mike Rose



NUMBERS ACROSS (LARGE LETTERS)

- A One dozen
- B $3A^2$
- C How counting starts ...
- D ... and continues
- E Ten twelves
- F D - N
- G Palindromic number
- H Square number
- I $g / 12 = g$ divided by 12
- J Palindromic number
- K Eleven cubed
- M $2 \times 3 \times 37$
- N Palindromic arrangement of K
- Q Arrangement of j
- R Arrangement of C
- T $2^3 \times 3^2$

numbers down (small letters)

- a 2A
- b $5^3 = 5 \times 5 \times 5$
- c palindromic arrangement of G
- d palindromic number
- e 3K
- f k^2
- g 2E
- h three more than T
- i palindromic number
- j palindromic number
- k $1 + 2 + 4 + 7 + 14$
- m descending sequence, step 2
- n palindromic number
- q $d / 7 = d$ divided by 7
- r arrangement of C
- t $3^3 = 3 \times 3 \times 3$

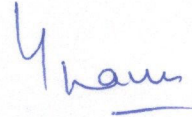
Solution to CROSS NUMBER PUZZLE (2015-16)

1. A lot of enthusiastic students tried this puzzle and could fill up almost all the entries correctly. However only **Bhagyashree Joshi – B.Sc I could solve the entire puzzle correctly. She gets a special prize for that.**
Congrats to all the enthusiastic participants.
Bhagyashree's solution is displayed here.

1. Bhagyashree Joshi – B.Sc I – All correct

We appreciate the following students for getting all but one entries correct.

2. Mayur Mahurkar - M.Sc II
3. Asha Kayarwar – M.Sc II
4. Tanvi Bamrotwar– M.Sc II
5. Sharavati Meshram - M.Sc II
6. Bhavik Hedau – B.Sc II – Sem 4
7. Rasika Deshkar – B.Sc II – Sem 4
8. Pranoti Kulkarni - B.Sc II – Sem 4



(Dr.K.S.Bhanu)



GOVERNMENT OF MAHARASHTRA

GOVERNMENT INSTITUTE OF SCIENCE, NAGPUR
CIVIL LINES, R.T. ROAD NAGPUR 440001



TEACHER MENTOR SCHEME SESSION 201__ - 201__

STUDENT PROFILE

MOWADE	SAMPADA	DURGADAS
SURNAME	FIRST NAME	FATER/MOTHER NAME

PERSONAL INFORMATION

CLASS: BSC - Ist year	SECTION:	GROUP: CBZ
BATCH: B4	COLLEGE ROLL No. :	UNI ENROL No.:
BIRTH DATE: 17.02.1999	BLOOD GROUP: B+ve	AADHAR No.:
RELIGION: HINDU	CATEGORY: KUNBI OBC	CASTE: KUNBI KUNBI
MOBILE NO: 9881918530	EMERGENCY NO:	EMAIL: sampada.mowade@gmail.com
VEHICLE NO:	LICENCE NO:	
MOTHER TOUNGUE: MARATHI	LANGUAGES KNOWN: ENGLISH, HINDI, MARATHI	
LOCAL ADDRESS: PLOT NO.3, WARD NO.14, SHRINIKETAN COLONY, KALMESHWAR, NAGPUR		
PERMENENT ADDRESS: Same as above.		

EDUCATIONAL DETAILS

PERCENTAGE ATTENDANCE	SESSION-I : above 75%	SESSION-II : above 75%
UNIVERSIT EXAM PERCENTAGE	SEMESTER-I : 486/600	SEMESTER-II : 457/600
UNIVERSITY EXAM ROLL NO:	SEMESTER-I :	SEMESTER-II : 637660

EXTRA CURRICULAR:	NSS: YES/NO	NCC: YES/NO
SPORTS ACHIEVEMENT:		
CULTURAL:	Won 1st prize in Female Global dance competition held in Talandar, Punjab.	
HOBBIES:	DANCE, DRAWING, READING, WRITING	
ANY OTHER	Elementary & Intermediate drawing exam.	

FAMILY BACKGROUND

FATHER/GUARDIAN :

FULL NAME DURGADAS MAHADEO MOWADE

MOBILE NO.: 9881210089

OCCUPATION: TEACHER

ANNUAL INCOME: 6,00,000/-

OFFICE ADDRESS:

MOTHERS NAME:

VIJAYA DURGADAS MOWADE

MOBILE NO.: 9657972622

OCCUPATION: HOUSE WIFE .

ANNUAL INCOME:

OFFICE ADDRESS:

ANY HEALTH PROBLEM:

- NO

ANY OTHER PROBLEMS:

- NO

NAME OF MENTOR/GUARDIAN TEACHER:

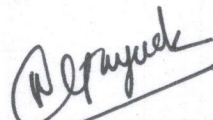
DR. RAJENDRA R. TAYADE, Asst. professor, chemistry.

REMARK:

she is regular student and has good academic record.



SIGNATURE OF STUDENT



SIGNATURE OF MENTOR



GOVERNMENT OF MAHARASHTRA

GOVERNMENT INSTITUTE OF SCIENCE, NAGPUR
CIVIL LINES, R.T. ROAD NAGPUR 440001



JANHVI VYAS

TEACHER MENTOR SCHEME SESSION 201__ - 201__

STUDENT PROFILE

VYAS	JANHVI	JAYESH
SURNAME	FIRST NAME	FATER/MOTHER NAME

PERSONAL INFORMATION

CLASS: Bsc - I	SECTION: C1	GROUP: PCM
BATCH:	COLLEGE ROLL No.:	UNI ENROL No.:
BIRTH DATE: 09-01-2000	BLOOD GROUP: O+ve	AADHAR No.: 2493 5770 6643
RELIGION: HINDU	CATEGORY: GENERAL	CASTE: BRAHMIN
MOBILE NO: 8407928020	EMERGENCY NO: 9422438176	EMAIL: janhvijayeshvyas@gmail.com
VEHICLE NO: MH-31 EJ 8482	LICENCE NO:	
MOTHER TOUNGUE: GUJARATI	LANGUAGES KNOWN: GUJARATI, HINDI, ENGLISH, MARATHI	
LOCAL ADDRESS: 175/176, Royal Residency, Flat no. 401, Near Poonam Vihar - I, Swawlambi Nagar, Indraprasth Co. op Soc, Nagpur - 22		
PERMENENT ADDRESS: Same As Above		

EDUCATIONAL DETAILS

PERCENTAGE ATTENDANCE	SESSION-I :	SESSION-II :
UNIVERSIT EXAM PERCENTAGE	SEMESTER-I : 75% {444/600}	SEMESTER-II : 71% {428/600}
UNIVERSITY EXAM ROLL NO:	SEMESTER-I : 618142	SEMESTER-II : 8°

EXTRA CURRICULAR:	NSS: YES/NO	NCC: YES/NO
SPORTS ACHIEVEMENT:	Played Basketball for club & Inschoot, Athletics; Gold in Relay and Medals in Shortput, 200m, 100m race, Long jump	
CULTURAL:	Dancing (Kathak & Western), Singing (Light & Western), Orator (Debate, Elocution, Extempore's) & Painting	
HOBBIES:	Playing Basketball, Volleyball, Drawing, Reading Novels, Canvas painting, listening to Light Music, Anchoring.	
ANY OTHER	NCC Air wing cadet, Represented in National Aeroolympics, Got Medals for National Montfort Literary & Cultural Comp.	

FAMILY BACKGROUND

FATHER/GUARDIAN : JAYESH NIRANJAN VYAS
FULL NAME

MOBILE NO.: 9423103365

OCCUPATION: SERVICE

ANNUAL INCOME:

OFFICE ADDRESS:

MOTHERS NAME: SANGEETA VYAS

MOBILE NO.: 9422438176

OCCUPATION: TEACHER

ANNUAL INCOME:

OFFICE ADDRESS:

ANY HEALTH PROBLEM: NO

ANY OTHER PROBLEMS: NO

NAME OF MENTOR/GUARDIAN TEACHER:

DR. RAJENDRA R. TAYADE, Asst. Professor, Chemistry

REMARK:

She is regular student and has good academic record.

Jashvi

SIGNATURE OF STUDENT

Rajendra

SIGNATURE OF MENTOR



GOVERNMENT OF MAHARASHTRA
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Ravindranath Tagore Marg, Civil Lines, Nagpur-440001

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STUDENT MENTORING COMMITTEE 2016-17

1. DR. S. BHANU ^{K. S. BHANU} IN-CHARGE
2. DR. SUSHMA NARKHEDE MEMBER
3. DR. SUJATA DEO MEMBER

STUDENT MENTOR FOR UNDER GRADUATE STUDENTS (B.SC-I)

SR. NO.	BATCH NUMBER	NAME OF MENTOR	INCHARGE
1	<u>C1</u>	MR. S. U. PATIL ^{Spate}	DR. G. M. PHADNAIK ^{Spate}
2	C2	MR. B. S. NAWALE ^{shirsath}	
3	C3	MR. R. S. SHINDE ^{BSrinde}	
4	S1	MRS. MEERA ALSI	MRS. MEERA ALSI ^{M. Meera} 16/8/17
5	S2	DR. GAYATRI BEHERE	
6	SCOM	DR. A. K. KHAMBORKAR	
7	PEM	MR. S. JIGAJENI ^{spj}	DR. SWATI Koushik ^{swati}
8	B1	DR. K. R. GOPAL ^{K. R. Gopal}	
9	B2	DR. J. S. MHASKE ^{J. S. Mhaske}	
10	B3	DR. A. K. KAWADKAR ^{A. K. Kawadkar}	
11	B4	DR. H. R. POHEKAR ^{H. R. Pohekar}	DR. A. N. MAHALLEY
12	B5	DR. H. R. POHEKAR ^{H. R. Pohekar}	
13	<u>Eb</u>	MR. S. U. PATIL ^{Spate}	DR. A. N. MAHALLEY ^{Spate}
14	Ez	MR. P. D. SHIRSATH ^{shirsathpi}	



GOVERNMENT OF MAHARASHTRA
INSTITUTE OF SCIENCE, NAGPUR
Ravindranath Tagore Marg, Civil Lines, Nagpur-440001

Tel.No. 2565581/2561148

Fax N. 0712-2565581

STUDENT MENTORING COMMITTEE 2017-18

1. DR. S. BHANU IN-CHARGE - *Y. Hanu*
2. DR. SUSHMA NARKHEDE MEMBER *Sushma Narkhede*
3. DR. SUJATA DEO MEMBER *Deo*

STUDENT MENTOR FOR UNDER GRADUATE STUDENTS (B.SC-I)

SR. NO.	BATCH NUMBER	NAME OF MENTOR	SIGNATURE
1	C1	DR. RAJENDRA TAYADE	<i>W. Tayade</i>
2	C2	MR. PRAVIN SAYARE	<i>P. Sayare</i>
3	C3	MR. VISHNUDAS BHOSALE	<i>V. Bhosale</i>
4	S1	DR. PRITI SINGH	<i>P. Singh</i>
5	S2	MR. YOGESH WANKHEDE	<i>Y. Wankhede</i>
6	SCOM	DR. PRITI SINGH	<i>P. Singh</i>
7	PEM	DR. S. R. JIGAJENI	<i>S. R. Jigajeni</i>
8	B1	MR. SHRIKANT J BORKAR	<i>S. Borkar</i>
9	B2	MR. N. B. YEMUL	<i>N. B. Yemul</i>
10	B3	DR. K. M. TELMORE	<i>K. M. Telmore</i>
11	B4	DR. RAJENDRA TAYADE	<i>W. Tayade</i>
12	B5	MR. R. S. SHINDE	<i>R. S. Shinde</i>
13	Eb	MR. B. S. NAVALE	<i>B. S. Navale</i>
14	Ez	MR. P. D. SHIRSATH	<i>P. D. Shirsath</i>

[Signature]
DIRECTOR,
INSTITUTE OF SCIENCE,
NAGPUR

Director
Govt. Institute of Science
NAGPUR.



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STUDENT MENTORING COMMITTEE 2017-18

1. DR. S. BHANU IN-CHARGE *Bhanu*
2. DR. SUSHMA NARKHEDE MEMBER *Narkhede*
3. DR. SUJATA DEO MEMBER *Deo*

STUDENT MENTOR FOR UNDER GRADUATE STUDENTS (B.SC-II)

SR. NO.	BATCH NUMBER	NAME OF MENTOR	SIGNATURE
1	C1	MR. S. U. PATIL	<i>Patil</i>
2	C2	MR. B. S. NAWALE	<i>Nawale</i>
3	C3	MR. R. S. SHINDE	<i>Shinde</i>
4	S1	MRS. MEERA ALSI	<i>Alsi</i>
5	S2	DR. GAYATRI BEHERE	<i>Behere</i>
6	SCOM	DR. A. K. KHAMBORKAR	<i>Khamborkar</i>
7	PEM	MR. S. JIGAJENI	<i>Jigajeni</i>
8	B1	DR. K. R. GOPAL	<i>Gopal</i>
9	B2	DR. J. S. MASKE	<i>Maske</i>
10	B3	DR. A. K. KAWADKAR	<i>Kawadkar</i>
11	B4	DR. H. R. POHEKAR	<i>Pohekar</i>
12	B5	DR. H. R. POHEKAR	<i>Pohekar</i>
13	Eb	MR. S. U. PATIL	<i>Patil</i>
14	Ez	MR. P. D. SHIRSATH	<i>Shirsath</i>

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STUDENT MENTORING COMMITTEE 2018-19

NOTICE

The staff members who have been appointed as mentors for the session 2018-19 are requested to note the class and batch allotted to them from the list attached herewith.

They should attend a meeting with the Director & mentoring committee on the following date.

Mentors of	Dates	Time
B.Sc- I	25/09/2018	2.00 to 2.30 pm
B.Sc- II	25/09/2018	2.30 to 3.00 pm
B.Sc- III	25/09/2018	3.00 to 3.30 pm

Director,
Govt. Institute of Science, Nagpur



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STUDENT MENTORING COMMITTEE 2018-19

1. DR. K.S. BHANU IN-CHARGE
2. DR. SUSHMA NARKHEDE MEMBER
3. DR. SUJATA DEO MEMBER

STUDENT MENTOR FOR UNDER GRADUATE STUDENTS (B.SC-I)

SR. NO.	BATCH NUMBER	NAME OF MENTOR
1	C1	Mr. P. P. Sayare <i>Payare</i>
2	C2	Mr. P. P. Sayare <i>Payare</i>
3	C3	Mr. V. K. Bhosale <i>Bhosale</i>
4	S1	Dr. P. R. Singh <i>PS</i>
5	S2	Dr. P. R. Singh <i>PS</i>
6	SCOM	Mrs. Meera Alsi <i>MA</i>
7	PEM	Mr. V. K. Bhosale <i>Bhosale</i>
8	B1	Dr. K. M. Telmore <i>Telmore</i>
9	B2	Dr. J. S. Maske <i>Maske</i>
10	B3	Dr. Aruna Kawadkar <i>Kawadkar</i>
11	B4	Dr. H. R. Pohekar <i>Pohekar</i>
12	B5	Mr. S. U. Patil <i>Patil</i>
13	Eb	Dr. K. M. Telmore <i>Telmore</i>
14	Ez	Dr. J. S. Maske <i>Maske</i>

Dr. Aruna Kawadkar

[Signature]
Director,

Govt. Institute of Science, Nagpur



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STUDENT MENTORING COMMITTEE 2018-19

1. DR. K.S. BHANU IN-CHARGE
2. DR. SUSHMA NARKHEDE MEMBER
3. DR. SUJATA DEO MEMBER

STUDENT MENTOR FOR UNDER GRADUATE STUDENTS (B.SC-II)

SR. NO.	BATCH NUMBER	NAME OF MENTOR
1	C1	Dr. R. R. Tayade <i>RRTayade</i>
2	C2	Mr. P. P. Sayare <i>P Sayare</i>
3	C3	Mr. V. K. Bhosale <i>Bhosale</i>
4	S1	Mrs. Meera Alsi - <i>MA</i>
5	S2	Mr. Y.B. Wankhede <i>YB Wankhede</i>
6	SCOM	Dr. P. R. Singh <i>PS</i>
7	PEM	Dr. S. R. Jigajeni <i>S R Jigajeni</i>
8	B1	Mr. S. J. Borkar <i>Borkar</i>
9	B2	Mr. N. B. Yemul <i>Yemul</i>
10	B3	Dr. K. M. Telmore <i>K M Telmore</i> Dr. H. R. Pohrekar <i>H R Pohrekar</i>
11	B4	Dr. R. R. Tayade <i>RRTayade</i>
12	B5	Mr. R. S. Shinde <i>R Shinde</i>
13	Eb	Mr. B. S. Navale <i>Navale</i>
14	Ez	Mr. P. D. Shirsath <i>Shirsath</i>

[Signature]
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Govt. Institute of Science, Nagpur



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STUDENT MENTORING COMMITTEE 2018-19

1. DR. K.S. BHANU IN-CHARGE
2. DR. SUSHMA NARKHEDE MEMBER
3. DR. SUJATA DEO MEMBER

STUDENT MENTOR FOR UNDER GRADUATE STUDENTS (B.SC- III)

SR. NO.	BATCH NUMBER	NAME OF MENTOR
1	C1	Dr. M. R. Sonone <i>Dr. Edvi s M.</i>
2	C2 <i>+ Pcom</i>	Mr. S. S. Kasarla <i>Kur zua</i>
3	C3	Dr. U. S. Thool
4	S1	Dr. G. S. Behere <i>24-9-18</i>
5	S2	Dr. G. S. Behere <i>24-9-18</i>
6	SCOM	Dr. A. K. Khamborkar
7	PEM	Mr. A. A. Chaudhary <i>Amy</i>
8	B1	Dr. N. J. Siddiqui <i>Nage</i>
9	B2	Dr. M.I.M Siddique <i>Maske</i>
10	B3	Dr. K. D. Jadhav <i>Dehoo</i>
11	B4	Mr. P. D. Ashtaputrey <i>Ashtaputrey</i>
12	B5	Dr. N. J. Siddiqui <i>Nage</i>
13	E1 <i>E2</i>	Dr. Y. Sardeshmukh <i>Sardeshmukh</i> Dr. Y. Gadikar
14	E3	Dr. M.I.M Siddique <i>M.I.M</i>

[Signature]
Director,

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STUDENT MENTORING COMMITTEE 2018-19

NOTICE

All Heads of the department are requested to allot teacher mentors (Not Involved in UG Mentoring) for M.Sc-I and M.Sc-II students and submit the report to IQAC by 10th Oct 2018.

Director,
Govt. Institute of Science, Nagpur

- 1) Dr. R. A. Satpute - R.A.
- 2) Dr. V. T. Kamble - V.T. Kamble 23/9/18
- 3) G. L. Waghmare - G.L. Waghmare
- 4) V. S. Jangde - V.S. Jangde 24/9/18
- 5) A. A. Chaudhary - A.A. Chaudhary 24/9/18
- 6) Dr. K. S. Bhanu - K.S. Bhanu 24/9/18
- 7) Dr. Sangamesh V. S. - Sangamesh V. S.
- 8) Dr. S. A. Koushik - S.A. Koushik 24/9/18

INSTITUTE OF SCIENCE, NAGPUR
DEPARTMENT OF PHYSICS
YEARLY REPORT- MENTORING COMMITTEE
2017-18 AND 2018-19

For academic year 2017-18 and 2018-19, mentoring of M. Sc. Physics Students was done by Prof - in - Charge Dr. C.P. Chaudhari and Swati Deshmukh. As far as mentoring is concerned, these members communicated the P. G. students in free time after lecture and practical schedule. Students were even asked to communicate freely in any time in extreme situations.

During these communications, these students discussed various difficulties with Prof - in - Charge. It mainly includes the syllabus orientated and exam orientated topics. Students were found to be very curious about the NET/SET syllabus. Mentoring committee discussed these issues in detail with students and suggested the way of study and reference books. This discussion also included the future prospectus after M.Sc. Physics other than teaching field. M.Sc.1st year students were found to be a bit under pressure and calm, especially those who came away from home. But day by day discussion and mentoring of these students enhanced their confidence.

Committee members

Dr. C.P. Chaudhari



Swati Deshmukh



Department of Statistics
Institute of Science, Nagpur.

MENTORING REPORT

M.Sc. I - Statistics
Session 2017-18

A meeting of M.Sc.I students was conducted by me to discuss various problems of the students. Almost all the students participated in the discussion and deliberated on their personal issues inclusive of their health problems and other academic related matters. I gave a patient hearing on each of the issues / problems placed by the students and tried to give satisfactory solutions to sort out their problems; may be on their personal issues or the health issues or any difficulties that they are facing in the studies.

The deliberations were conducted in a very friendly and cordial atmosphere. All the students were happy about this mentoring activity conducted by our Institute and appeared satisfied on the guidance and advice they received from the mentors. We further appealed to them to come forward any time if they face any problem in their academic career and assured them of every help or guidance that they require.



(Mrs. Meera Alsi)

Mentoring Report 2017 – 18

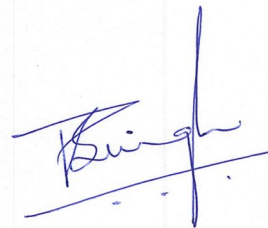
In the academic session 2017-18, 4 meetings of the students were conducted. In the meetings the students discussed with me about their academic, financial and family problems.

The students who discussed about their financial problems were informed about different scholarships available at the Institute level, University level and Government level. They were also guided regarding the ways to avail these facilities.

The students were also counselled and guided in their personal problems.

The children who discussed their academic problems were helped and guided by me. Besides they were given the names of other subject teachers in which they had problems. The related subject teachers also guided and helped the students.

In this manner the students were taken care throughout the year.



Dr. Pritee Singh

(Mentor)

B. Sc. I S1 & SCom Batch

GOVT. INSTITUTE OF SCIENCE, NAGPUR

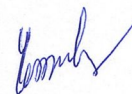
DEPARTMENT OF BOTANY

Tel. No. 0712-2561148

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REPORT OF STUDENT MENTORING B. Sc. I (B2 Batch) 2017-18

To check the regular academic progress of students mentoring scheme was started by the Institute of Science, Nagpur. Sixteen students of B. Sc. I, B2 batch, CBZ group were assigned to me. In the beginning students provided their personal information in the format provided by IQAC. It was followed by meeting to discuss personal and academic problems faced by the students. Academic problems were solved by providing reference books and study material. Suggestions had been given to the mentees for regular attendance in the theory classes and practicals. Students were also guided for preparing University exams before the end of first term. In the second term students were asked to submit progress report in the format provided by IQAC and meritorious students were felicitated in the meeting. Students were also told about scholarships of AASCON and Sukhdeoji Maharaj of Sawangi. At the end of year students were guided to prepare for second semester examination.



Mentor

Sh. N. B. Yemul
Asst. Prof. of Botany