Best practice-I: Student Exchange activity by Department of Physics.

Goals: To provide complete knowledge to the students.

Context: As we know every institute in not perfectly enabled to provide all facilities to students. Particularly, some scientific experiments need more sophisticated instruments. These instruments or any other facility may be available in nearby institute instead of parent institute. To get benefit of facility we can exchange the student between parent institute and nearby institute.

The practice: Punyashlok Ahilyadevi Holkar Solapur University, Solapur is changing the syllabus of class for every three year. The updated syllabus may contain some recent technology based experiments for practical purpose. Class: B.Sc.-II (Physics) is having 40 experiments for annual practical examination. As per university guideline every institute has to complete the 80 % of the total experiments, but what about 20 % of the remaining experiments. So, Department of Physics has decided to provide additional knowledge to the students via visiting to neighboring institute Sangola College Sangola. Our institute has taken permission from Principal, Sangola College Sangola for doing some experiments, and he has granted our request. From our institute 22 students and three staff members of Class B.Sc.-II had visited and completed three experiments. They get sufficient knowledge and understand the procedure for operation of equipments. During student exchange activity, our student has interacted with faculty members and with students.

Due to this we get benefits as:

1) Student gets more than sufficient knowledge.

2) Students approach about subject has been changed.

3) Near about 100 % completion of practicals.

Evidence of success: Due to pandemic situation (COVID-19), we are not unable to check the evidence of success.

Problems: All students are not taking part in student exchange activity. Sometimes neighboring institute doesn't have sufficient time and availability of laboratory.

Contact Person:

Dr. Dhasade S.S. **Coordinator** **IQAC** **09422652388**	**Dr. Thombare J. V.** **Assistant Coordinator** **IQAC** **09890776585**

Request letter

Dr. Thombare J. V.
Assistant Professor
Deptt. of Physics
Date: 29-01-2020

To,
Principal,
Vidnyan Mahavidyalaya, Sangola

Subject: Regarding student exchange

Respected sir,

The subject mentioned above I may please inform you that our B.Sc.-II students have successfully completed 35 experiments out of 40. Unfortunately some experiments are not working properly and for few experiments we don't have instruments.

Dr. Mane T. R., Head of Deptt. of Physics, Sangola College Sangola is agree to allow our B.Sc.-II students for doing some experiments. I have made telephonic discussion with him.

So, here I kindly request you to allow B.Sc.-II Students (IInd batch-28 students) and two faculty members for doing some experiments under student exchange activity on 30-1-2020. This activity is a part of MoU.

Thanking you,

Yours

Thombare

Dr. Thombare J. V.

allowed to do the some experiments at sangola college

29.1.2020

'Sangola Taluka Shetkari Shikshan Prasarak Mandal Sangola's

VIDNYAN MAHAVIDYALAYA SANGOLA

(Arts & Science, E.C.S. & B.C.A.)
Tal.Sangola Dist.Solapur Pin. 413 307 (Maharashtra)
(Affiliated to Solapur University)

Off. (02187) 220508
Resi. (02187) 221151
Fax : (02187) 222306
Email : vidnyanms@yahoo.co.in
Website : www.vmssangola.org

Principal : Dr. S. B. Jundale
M.Sc., Ph.D., D.H.E.

Re-Accredited by NAAC with 'B' Grade (CGPA of 2.76)

Ref. No. Self- 2019-2020 Date : 29/ 01 /2020

To,

Head
Department of Physics,
Sangola College Sangola.

Subject: Regarding student exchange,

Dear Sir,

As per subject mentioned above, I may please inform you that, Vidnyan Mahavidyalaya Sangola and Sangola College Sangola have signed MoU for faculty exchange, student exchange and for use of research facility etc.

So, here I am requesting to you to allow our B.Sc-II student for doing some experiments under student exchange program on **30/01/2020**.

The details of the experiments are as;

1) Electronics: **Construction of Half adder and Full adder,**
2) Optics: **Biprism and Double refracting Prism**

Thanking you,

Yours faithfully,

Principal
Vidnyan Mahavidyalaya, Sangola
Tal. Sangola Dist. Solapur

O/C

HEAD
Department of Physics
Sangola College, Sangola

'Sangola Taluka Shetkari Shikshan Prasarak Mandal Sangola's

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Re-Accredited by NAAC with 'B' Grade (CGPA of 2.76)

Ref. No. Selb - 2019-2020 Date : 30/ 01 /2020

Thanking Letter

To,

Head
Department of Physics,
Sangola College Sangola.

Subject: Regarding student exchange,

Dear Sir,

We are very much grateful to Department of Physics, Sangola College Sangola for accepting our request regarding student exchange. Our B.Sc II student has successfully completed some experiments on **30/01/2020** under your supervision.

Thanking you,

Yours faithfully,

Principal
Vidnyan Mahavidyalaya, Sangola
Tal. Sangola Dist. Solapur

O/C

HEAD
Department of Physics
Sangola College, Sangola

VIDNYAN MAHAVIDYALAYA SANGOLA
Department of Physics
(Student Exchange Activity at Sangola College Sangola)
B.Sc.-II
Batch- Wednesday & Thursday
Academic Year: - 2019-2020

Sr. No.	Name of Student:	Signature of Student
01	Miss. Pawar Pratiksha Chandrakant	Pawar.
02	Miss. Saudagar Gitanjali Parsappa	Saudagar.
03	Miss. Bile Kavita Balu	Bile.
04	Miss. Khandagale Amruta Anil	Khandagale.
05	Miss. Khandekar Priyanka Balasaheb	Khandekar. P.B
06	Miss. Misal Pooja Pratap	P. P. Misal
07	Miss. Kadam Supriya Dagadu	S. D. Kadam.
08	Miss. Gangadhare Pallavi Babasaheb	Pallavi
09	Miss. Gavhane Bhararti Sanjay	Ab
10	Miss. Shinde Chhakuli Bharat	Shinde.
11	Miss. Babar Swapnali Balaso	Ab
12	Miss. Jadhav Sarika Haridas	Jadhav.
13	Miss. Kadam Ashvini Baburao	Ashvini
14	Miss. Shembade Supriya Hanmant	Shembade
15	Miss. Patil Sujata Uttam	SUPatil
16	Miss. Kolekar Swati Mohan	Kolekar
17	Miss. Dolas Shubhangi Ashok	Dolas
18	Mr. Karande Machindra Mahadev	Ab
19	Mr. Narale Vaibhav Bapu	Ab
20	Mr. Gade Pratik Chandrakant	Gade
21	Mr. Bhosale Shrikant Sunil	Bhosale
22	Mr. Shelake Akashay Popat	A. P. Shelake
23	Mr. Khandagale Vishal Bapuso	Ab
24	Mr. Gejage Chetan Sambhaji	
25	Mr. Ghadage Vipul Manikrao	V. Ghadge.
26	Mr. Bhagat Sumit Madhukar	Sbhagat.
27	Mr. Vhanmane Kashiling Shivaji	Ab
28	Mr. Sule Sunil Chandrakant	Ab
29	Mr. Patil Chandrakant Shamrao	Ab
30	Miss. Bansode Tejasvini Sunil	Bansode

Thombare
Teacher In-charge
Dr. Thombare J. V.
Day and Date: Thursday, 30-01-2020.

This activity is done under my supervision.

30/01/2020

HEAD
Department of Physics
Sangola College, Sangola

Best practice-II: Quiz competition by Department of Physics.

Goals: To upgrade the knowledge of Physics and to understand the nature of competitive examinations in Physics.

Context: Recently, after completion of graduation there is no direct admission to post graduate courses and also in research institute there are entrance examinations for courses. In both, University and Research institutes entrance examination the questions are based on their syllabus of total course. But unfortunately some students are not aware about this thing. Maharashtra Public Service Commission (MPSC) and Union Public Service Commission (UPSC) are conducting screening examinations for selecting the proper candidate for particular administrative post. The nature of question papers set by MPSC and UPSC are multiple choice questions and some descriptive questions. While solving the multiple choices based questions there are some risks such as time, negative marking etc. If these things are very sensitive i.e. direct effect on student's results and on students performance of their personality test. So, by keeping this view in mind Department of Physics has conducted a quiz competition to the B.Sc.-II (Physics) students and B.Sc.-III (Physics) students.

The practice: Department of Physics is conducting quiz competition to B.Sc.-II (Physics) students and B.Sc.-III (Physics) students. A separate notice for quiz competition was to be circulated among the students via departmental notice board. A detail schedule and marking schemes of quizzes were displayed on notice board. Concerning faculty member was collecting the applications from students. The group of three students was prepared on the choice of students and every group was providing the group leaders among them. Every group leader collects the information for quiz. The sources of information were Faculty members, books, internet, Youtube etc. On scheduled date and time, quiz was conducted in various rounds. On

completion of every round a score was announced by faculty members. After completion of all rounds, a winner was announced based on all the rounds score given by faculty. A winning team was felicitated at the hands of Chief Guest of Annual function (Gymkhana day and Prize Distribution ceremony) of college. Due to felicitation other students get inspiration and they attracts towards Quiz Competition. They get sufficient knowledge and understand the procedure of entrance examination. During quiz competition activity, our student has actively participated in the event.

Due to this we get benefits as:

1) Student gets knowledge about nature of entrance examination.

2) Students have changed their view about competitive examination.

Evidence of success: Due to pandemic situation (COVID-19), we are not unable to check the evidence of success.

Problems: All students are not taking part in quiz competition activity.

Contact Person:

Dr. Dhasade S.S. **Coordinator** **IQAC** **09422652388**	**Dr. Thombare J. V.** **Assistant Coordinator** **IQAC** **09890776585**

Department of Physics
Vidnyan Mahavidyalaya Sangola.
Quiz Competition
For B.Sc.-II & III (Physics)

Participated Groups

Sr. No.	Group	Student Name	Class	Signature
1	I	Suryawanshi V.R	B.Sc-III	
2		Tamboli A.R	B.Sc-III	A.R Thamboli
3		Devkate R.S	B.Sc-III	
4	II	Thombare V.H.	B.Sc-II	Thombare
5		Ghadge V.M.	BSc-II	V. Ghadge
6		Sagar P.H	BSc-II	
7	III	Pawar P.K	BSc-III	
8		Thombare R.D	BSc-III	
9		Adinge A.R	BSc-III	
10	IV	Gangadhare P.B	BSc-II	Pallai
11		Gavhane B.S.	BSc-II	B.S. Gavhane
12		Jadh P.P.	BSc-II	
13	V	Ligade S.S	BSc-III	
14		Navale C.A.	B.Sc-III	Navale C.A.
15		Somadale S.K.	B.Sc-III	
16	VI	Kadam S.D.	B.Sc II	S.D. Kadam
17		Misal P.P.	B.Sc II	P.P. Misal
18		Khandekar P.B	B.Sc II	Khandekar P.B
19	VII	Lavate A.B.	B.Sc III	A.B. Te
20		Rajroane S.V	B.Sc-III	
21		Kokate S.B.	B.Sc-III	
22	VIII	Khandagale K.T	B.Sc-III	
23		Kirgat P.M	B.Sc III	
24		Toddkar R.B	B.Sc-III	
25	IX			
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				

Thombare

(Dr. Thombare J.V.)

Department of Physics
Vidnyan Mahavidyalaya Sangola.
Quiz Competition
For B.Sc.-II & III (Physics)
Score Card

Group	Round-I	Total	Round-II	Total	Round-III	Total	Round-IV	Total	No.s V	Total
I	10		10+0		10	= 30	0+0	=30	20	= 50
II	0		10		-2	= 8	0+0	= 8	0	= 8
III	0		0		+5-2	= 3	0+0	= 3	0	= 3
IV	10		+5+0		+5+10	= 30	10+0	=40	20	= 60
V	0		+5+0		10	= 15	0+0	= 15	20	= 35
VI	10		+5+10		-2	= 23	0+0	=23	20	= 43
VII	0		0		-5+10	= 5	0+0	= 5	20	= 25
VIII	10		0		10	= 20	0+0	=20	20	= 40
IX										
X										
XI										

Signature: Dr. Thombare J.V. - Thombare

Signature: Miss. Adsul D.V. - Adsul

Signature: Miss. Ghongade S. - Ghongade

Signature: Mr. Ingole Sagar - Ingole

Winner - Group III
Group Members.
1) Gaugadhare P.B.
2) Gavhane B.S. (Group leader).
3) Jodh P.P.

Ingole
30/1/2020

Department of Physics
Vidnyan Mahavidyalaya Sangola.
Quiz Competition
For B.Sc.-II & III (Physics)
Entry Form

We all are interested in participation in Quiz Competition organized by Department of Physics. Please consider our entry for quiz competition.

Sr. No.	Name of student	Class	Mobile number	Signature
1)	Suryawanshi V.R	B.Sc-III	8007566050	
2)	Tamboli A.R	B.Sc-III	7875746196	A.R.Tamboli
3)	Devkate R.S	B.Sc-III	9623501147	Devkate

Name of Group Leader: Suryawanshi Vaishali Rajaram **Date:** 30/01/2020

Department of Physics
Vidnyan Mahavidyalaya Sangola.
Quiz Competition
For B.Sc.-II & III (Physics)
Entry Form

We all are interested in participation in Quiz Competition organized by Department of Physics. Please consider our entry for quiz competition.

Sr. No.	Name of student	Class	Mobile number	Signature
1	Ghadge Vipul Manik	BSc-II	7219549795	
2.	Thombre Vikas Hanamant	BSc-II	7620224731	V.H. Thombre
3.	Sagarpremanathhanam	BSc-II	7499500130	

Name of Group Leader: Ghadge Vipul Manik **Date:** ------

Department of Physics
Vidnyan Mahavidyalaya Sangola.
Quiz Competition
For B.Sc.-II & III (Physics)
Entry Form

We all are interested in participation in Quiz Competition organized by Department of Physics. Please consider our entry for quiz competition.

Sr. No.	Name of student	Class	Mobile number	Signature
1)	Todkar Reshama Balaso	B.Sc-III	8698172731	TodkarRB.
2)	Khandagale Kavita Tanaji	B.Sc-III	8788530404	
3)	kirgat Pooja Manik	B.Sc-III	9307927161	

Name of Group Leader: Todkar Reshama Balaso **Date:** 29/01/2020.

Department of Physics
Vidnyan Mahavidyalaya Sangola.
Quiz Competition
For B.Sc.-II & III (Physics)
Entry Form

We all are interested in participation in Quiz Competition organized by Department of Physics. Please consider our entry for quiz competition.

Sr. No.	Name of student	Class	Mobile number	Signature
1)	Rajmane Samadhan	B.Sc-III	8180810384	
2)	Kokate Simarani.B	B.Sc-III	9075208049	
3)	Layate Ashwini.B.	B.Sc-III	9652897081	

Name of Group Leader: Rajmane Samadhan Vijay **Date:** 29/1/20

Department of Physics
Vidnyan Mahavidyalaya Sangola.
Quiz Competition
For B.Sc.-II & III (Physics)
Entry Form

We all are interested in participation in Quiz Competition organized by Department of Physics. Please consider our entry for quiz competition.

Sr. No.	Name of student	Class	Mobile number	Signature
1.	Navale chhaya Ankush	B.Sc-III	9130195484	Navale.C.A
2.	Bamadale Sayali Kisan	B.Sc-III	7350210940.	Sayali.
3.	Ligade Seema Shivaji	B.Sc-III	7666494098	

Name of Group Leader: Navale...chhaya...Ankush **Date:** ~~30-01-2020~~

Department of Physics
Vidnyan Mahavidyalaya Sangola.
Quiz Competition
For B.Sc.-II & III (Physics)
Entry Form

We all are interested in participation in Quiz Competition organized by Department of Physics. Please consider our entry for quiz competition.

Sr. No.	Name of student	Class	Mobile number	Signature
1	Pawar P.K.	B.Sc III	9970883791	P.K.Pawar
2.	Adlinge A.R.	B.Sc.III	8805810034	A.R.
3.	Thombare P.D.	B.Sc.III	9975538182	P.

Name of Group Leader: Dr. Pawar ....Pratap....kisan **Date:** 30/01/2020

Department of Physics
Vidnyan Mahavidyalaya Sangola.
Quiz Competition
For B.Sc.-II & III (Physics)
Entry Form

We all are interested in participation in Quiz Competition organized by Department of Physics. Please consider our entry for quiz competition.

Sr. No.	Name of student	Class	Mobile number	Signature
1)	Gavhane Bharati Sanjay	B.Sc-II	7620901690	B.S.Gavhane.
2)	Gangadhare Pallavi Babasaheb	B.Sc-II	8378048715	Pallavi
3)	Jodh Pratibha Pandurang	B.Sc-II	9527570319	

Name of Group Leader: Gavhane...Bharati.Sanjay **Date:** --------

Department of Physics
Vidnyan Mahavidyalaya Sangola.
Quiz Competition
For B.Sc.-II & III (Physics)
Entry Form

We all are interested in participation in Quiz Competition organized by Department of Physics. Please consider our entry for quiz competition.

Sr. No.	Name of student	Class	Mobile number	Signature
1)	Misal Pooja Pratap	B.Sc.II	8600779219	P.P.Misal
2)	Khandekar priyanka Balasaheb	BSc-II	7499883790	Khandekar.P.B
3)	Kadam Supriya Dagadu	Bsc.II	8379937191	S.D.Kadam.

Name of Group Leader: ...Misal...Pooja...Pratap **Date:** --------

30/01/2020

Department of Physics
Vidnyan Mahavidyalaya, Sangola

Quiz Competition
(For B.Sc.-II &III)

Conducted by:
Dr. Thombare J. V. M.Sc., Ph.D.
Assistant Professor in Physics

Q: In the atmosphere ultraviolet rays are absorbed by..

a) Oxygen

b) Nitrogen

c) Ozone

d) Helium.

Q: Which of the following is the unit of perceived loudness of sound?

a) Decibel

b) Sone

c) Hertz

d) Phon.

Q: Which of the following is non-renewable source of energy?

a) Biogas

b) Solar

c) Wind

d) Coal.

Q: Optic fibers are used in ..

a) CT scan

b) X-ray Photos

c) Ultrasound Scan

d) Endoscopy.

Q: The radiant energy having lowest energy is..

a) Gamma Rays

b) UV Rays

c) Visible light

d) Microwave radiation.

30/01/2020

Q: In the atmosphere ultraviolet rays are absorbed by..

a) Oxygen

b) Nitrogen

c) Ozone

d) Helium.

repeat

Q: Which term is not associated with sound wave?

a) Hertz

b) Decibel

c) Candela

d) Mach.

Q: When does the sun shine vertically on the equator ?

a) Throughout the year

b) For six months

c) Twice a year

d) Once a year.

Q: Which among the following waves is used for communication by artificial satellite?

a) Micro waves

b) Radio waves

c) A.M.

d) Frequency of 10^{16} series.

Q: Which of the following is indicated by the color of a star?

a) weight

b) distance

c) temperature

d) size.

Q: The energy emitted by the Sun is due to..

a) Chemical reaction

b) Nuclear Fission

c) Nuclear Fusion

d) All of the above.

30/01/2020

Q: In AC circuits, AC meters measures..

a) Mean values

b) RMS values

c) Peak values

d) Mean square values

Q: Rocket works on the principle of..

a) Newton's Third law

b) Newton's Second law

c) Newton's first law

d) Archimedes Principle.

Q: Which of the following liquids has the least density?

a) Fresh water

b) Salt water

c) petrol

d) mercury.

Q: Cooli's tube is used to produce ..

a) Radio waves

b) Micro waves

c) X rays

d) Gamma Rays.

Q: For a ray of light to suffer total internal reflection it has to pass from..

a) Glass to water

b) Water to glass

c) Air to water

d) Air to glass.

Q: Which of the following waves can not be polarized ?

a) Radio

b) Ultra violet

c) infrared

d) ultrasonic.

30/01/2020

Q: Which of the following is a good electrical conductor ?

a) Graphite

b) Diamond

c) Peat

d) Charcoal.

Q: Which of the following is used for regulated electric supply ?

a) Zener diode

b) Junction diode

c) Gunn diode

d) Tunnel diode.

Q: Which type of force acts on car moving around a curve?

a) Centrifugal force

b) Cohesive force

c) Centripetal force

d) Gravitational force.

Q: Which of the following is used in oven ?

a) X-rays

b) UV rays

c) Microwaves

d) Radio waves.

Q: Intensity of gravitation field of earth is maximum at...

a) poles

b) equator

c) Center of earth

d) surface.

Q: Which one of the following has the highest value of specific heat ?

a) glass

b) copper

c) lead

d) water.

30/01/2020

Q: Hydraulic machines works under the principle of ...

a) Newton's law

b) Joules law

c) Pascal's law

d) Floatation law.

Q: The best material for the core of a transformer is ..

a) Stainless steel

b) Mild steel

c) Hard steel

d) Soft iron.

Q: Which of the following is the second largest source of global energy ?

a) Fossils fuel

b) Nuclear energy

c) Renewable energy

d) None of these.

Q: Which of the following is the method of heat transfer ?

a) Convection

b) evaporation

c) Revolution

d) Thermal expansion.

Q: As we go from equator to north pole the value of 'g', acceleration due to gravity ?

a) Remains the same

b) decreases

c) increases

d) None of these.

Q: A concave lens always forms an image which is..

a) Real and erect

b) Virtual and erect

c) Real and inverted

d) Virtual and inverted.

30/01/2020

Q: Spectacles used for viewing 3D films have..

a) Bifocal lens

b) Convex lens

c) Polaroid's

d) Concave lens.

Q: The oil in the wick of lamp rises due to..

a) Pressure difference

b) Force of cohesion

c) Phenomenon of capillarity

d) Low viscosity of oil.

Q: The weight of body at the center of earth is ...

a) Half the weight at the surface

b) zero

c) Twice the weight at the surface

d) Infinite.

Q: What is the reason for formation of mirage in desert ?

a) Reflection of light

b) Refraction of light

c) Total internal reflection of light

d) Both refraction and total reflection of light.

Q: 'Parsec' is the unit measurement of..

a) Density of stars

b) Astronomical distance

c) Brightness of heavenly bodies

d) Orbital velocity of giant stars.

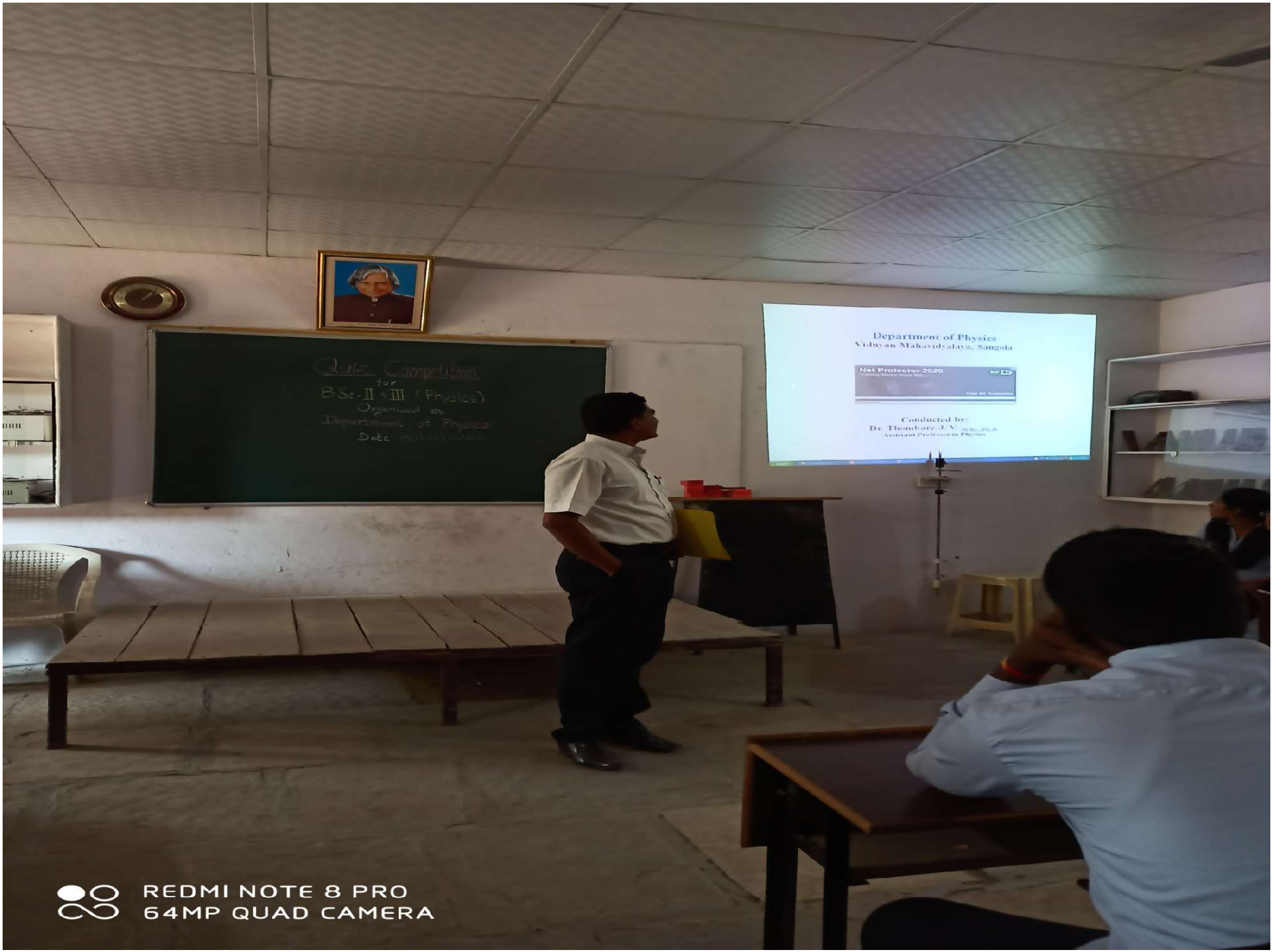
Q: Which type of mirror is used in the head lights of vehicles ?

a) Plane mirror

b) Concave mirror

c) Convex mirror

d) Parabolic mirror.


Quiz Competition
for
B.Sc-II & III (Physics)
Organized by
Department of Physics
Date:
Department of Physics
Vidnyan Mahavidyalaya, Sangola
Net Protector 2020
Conducted by:
Dr. Thombare J.V.
Assistant Professor in Physics
REDMI NOTE 8 PRO
64MP QUAD CAMERA


Quiz Competition
for
BSc-II & III (Physics)
Organised by.
Department of Physics
Date: 30/01/2020
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64MP QUAD CAMERA


Quiz Competition
for
B.Sc-II & III (Physics)
Organised by,
Department of Physics
Date: 30/01/2020.
Department of Physics
Vidnyan Mahavidyalaya, Sangola
Quiz Competition
(For B.Sc.-II &III)
Conducted by:
Dr. Thombare J. V.
Assistant Professor in Physics
REDMI NOTE 8 PRO
64MP QUAD CAMERA


Q: The radiant energy having lowest energy is..
a) Gamma Rays
b) UV Rays
c) Visible light
d) Microwave radiation.
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64MP QUAD CAMERA