

**"Education for Knowledge, Science and Culture."**

- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri. Swami Vivekanand ShikshanSanstha's

**VIVEKANAND COLLEGE (AUTONOMOUS),  
KOLHAPUR**

Department of physics

**NOTICE (M.Sc.-I)**

**Date: 08/03/2021**

The students of M.Sc. I Physics are hereby informed that; their internal examination will be held on 17/03/2021 to 20/03/2021. The time table is given below.

Sr No.	Paper Code	Name of the paper	Date	Time	Marks
1	CP-1106B	Quantum Mechanics-II	17/03/2021	12.00 to 1.00 pm	20
2	CP-1107B	Statistical Mechanics	18/03/2021	12.00 to 1.00 pm	20
3	CP-1108B	Electrodynamics	19/03/2021	12.00 to 1.00 pm	20
4	CP-1109B	Atomic and Molecular Physics	20/03/2021	12.00 to 1.00 pm	20

  
Coordinator

  
HOD

DEPARTMENT OF PHYSICS  
VIVEKANAND COLLEGE (AUTONOMOUS)  
KOLHAPUR

# Vivekanand College, Kolhapur (Autonomous).

## Department of Physics

M. Sc. Part-I Internal Examination Subject: Physics

Title of the Paper: Quantum Mechanics-II

Date: 17/03/2021

Time: 12.00 noon to 1.00 pm

Day: Tuesday

Marks: 20

Attempt any 10

1) Each Question carry two marks.

\* Indicates required question

1. Name of the student \*

2. Email \*

3. PRN \*

4. Roll Number \*

1. The time evolution operator satisfies the condition at  $t-t_0$

Mark only one oval.

- $U(t,t_0) = 1$
- $U(t,t_0) = 0$
- $U(t,t_0) = -1$
- $[U(t,t_0)]^2 = 0$

2. The dimensions of  $\delta(\omega-\omega_0)$  is

Mark only one oval.

- [L]  
 [T<sup>2</sup>]  
 [T]  
 [L<sup>2</sup>]

3. In identical particles, particles that described by antisymmetric wave function are said to obeyed ..... Statistics.

Mark only one oval.

- Fermi  
 Dirac  
 Fermi- Dirac  
 Bose

4. If  $\Delta t$  is the time interval during which the perturbation has been turned on, a transition with appreciable probability is possible only with

Mark only one oval.

$\Delta t \cdot \Delta E \sim \hbar$

$\Delta t \cdot \Delta E > \hbar$

$\Delta t \cdot \Delta E < \hbar$

$\Delta t \cdot \Delta E = \hbar$

5. The Born approximation is valid for ..... and .....

Mark only one oval.

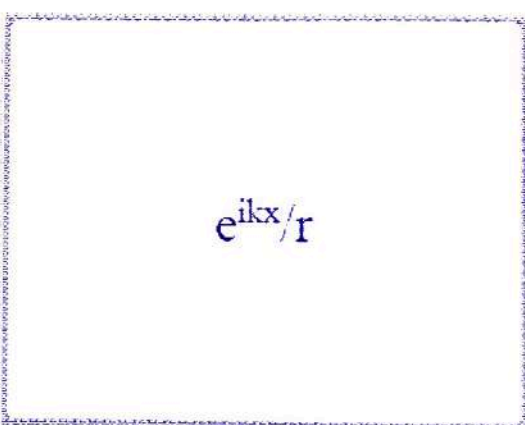
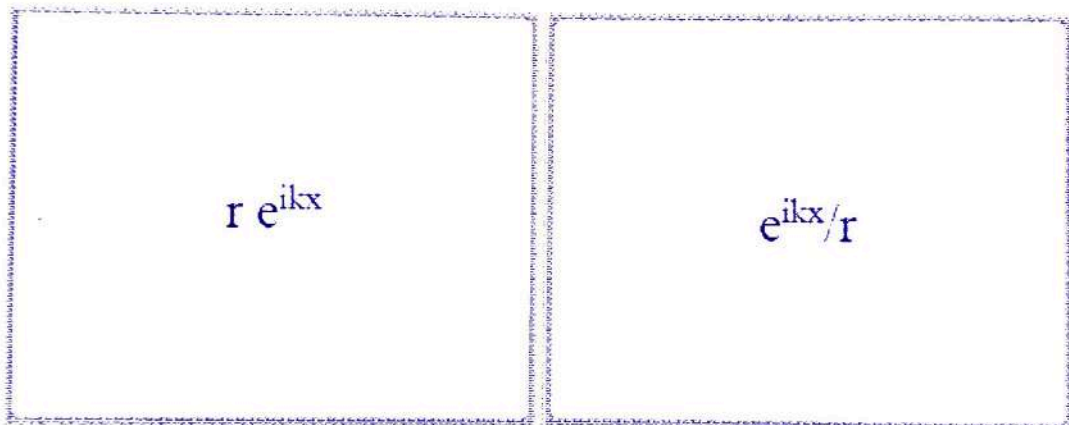
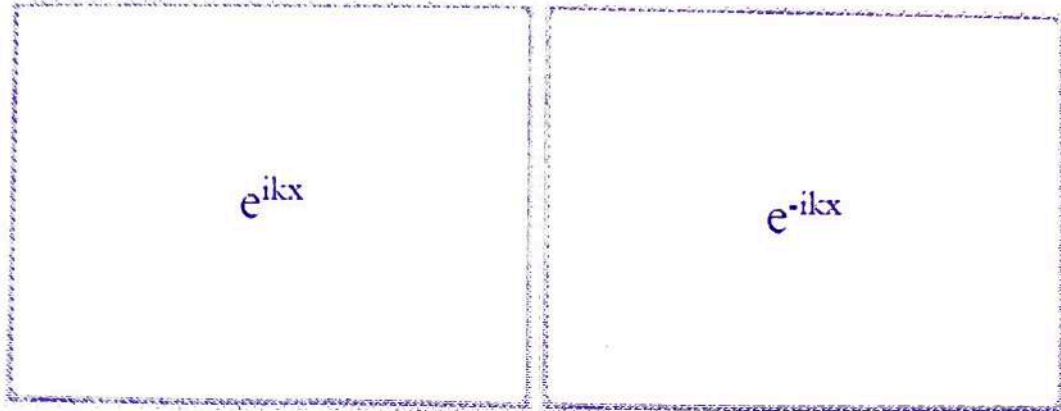
high energy, strong potential low

low energy, strong potential high

high energy, weak potential low

low energy, weak potential high

6. In scattering from finite range potential outgoing scattered wave is in form  
Mark only one oval.



7. By partial wave method total scattering cross section is for hard sphere..... Geometrical cross section for hard sphere.

Mark only one oval.

- Same as  
 four times  
 twice  
 three times

8. In resonance scattering , the resonance obtained at each value of  $\delta_t$

Mark only one oval.

- $n\pi, n=1,2,3,\dots$   
  $n\pi/3, n=2,4,6,\dots$   
  $n\pi/2, n=1,3,5,\dots$   
 only at  $\pi/2$

9. In Schrodinger picture evolution of observable is determined by .....

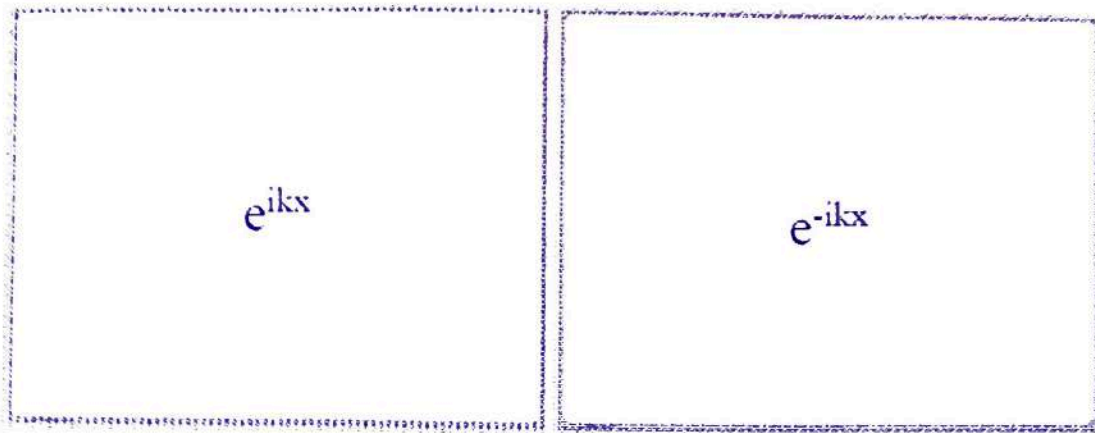
Mark only one oval.

- H  
  $H_0$   
 V  
 Observable do not change

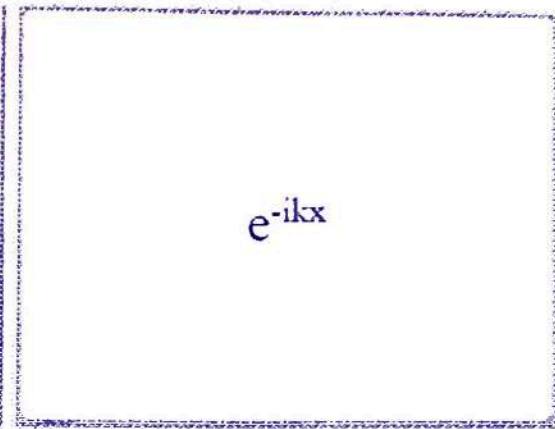
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Quantum Mechanics II

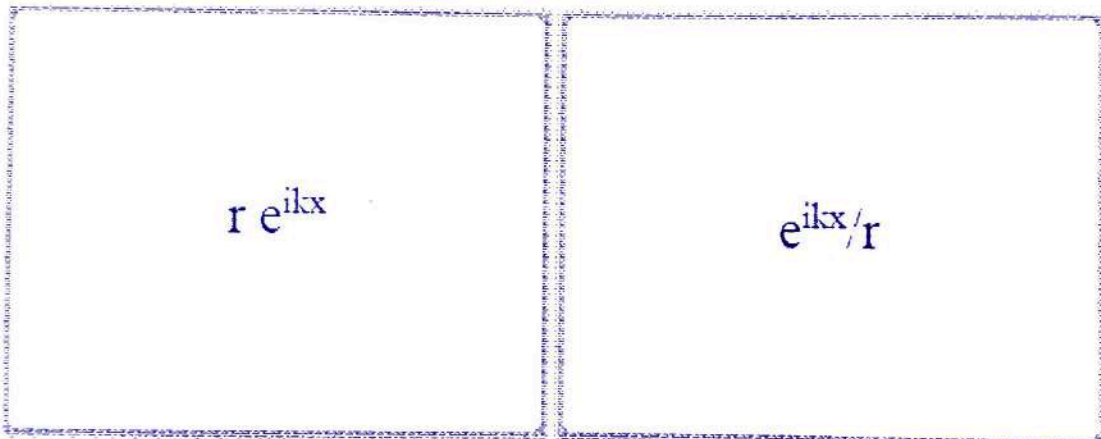
10. In scattering from the finite range potential outgoing scattered wave is in form  
Mark only one oval.



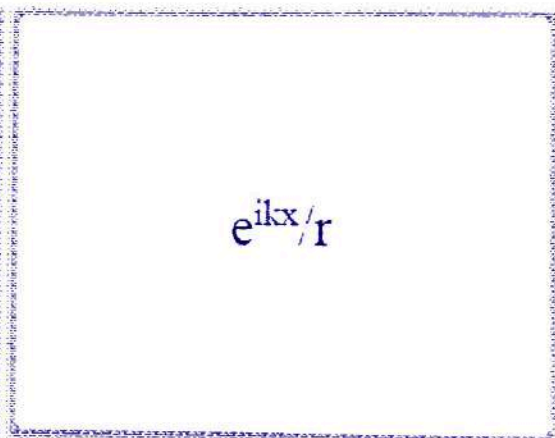
Option 1



Option 2



Option 3



Option 4

11. Variational method is useful for the estimating the.....when exact wave function is not available.

Mark only one oval.

- Ground state energy  $E_0$
- energy of first excited state  $E_1$
- energy of second excited state  $E_2$
- energy of Third excited state  $E_3$

1/9/24, 1:49 PM

Quantum Mechanics II

12. The total transition probability is proportional to .... For large value of  $t$ .

Mark only one oval.

- $t$
- $t^2$
- $1/t$
- $1/t^2$

13. In Born approximation if  $f(k',k)$  can be approximated by the corresponding first Born amplitude then  $f(\theta)$  is function of ..... only

Mark only one oval.

- $q$
- $q^2$
- $1/q$
- $1/q^2$



14. In Born approximation if  $f(k',k)$  can be approximated by the corresponding first Born amplitude then  $f(\theta)$  is function of ..... only

Mark only one oval.

- q
- $q^2$
- $1/q$
- $1/q^2$

15. In Born approximation if  $f(k',k)$  can be approximated by the corresponding first Born amplitude then  $f(\theta)$  is .....

Mark only one oval.

- Always real
- always imaginary
- may be real or imaginary
- complex number

16. In Born approximation if  $f(k',k)$  can be approximated by the corresponding first Born amplitude then  $f(\theta)$  is..... for .....value of  $q$  due to rapid oscillation of the integrand.

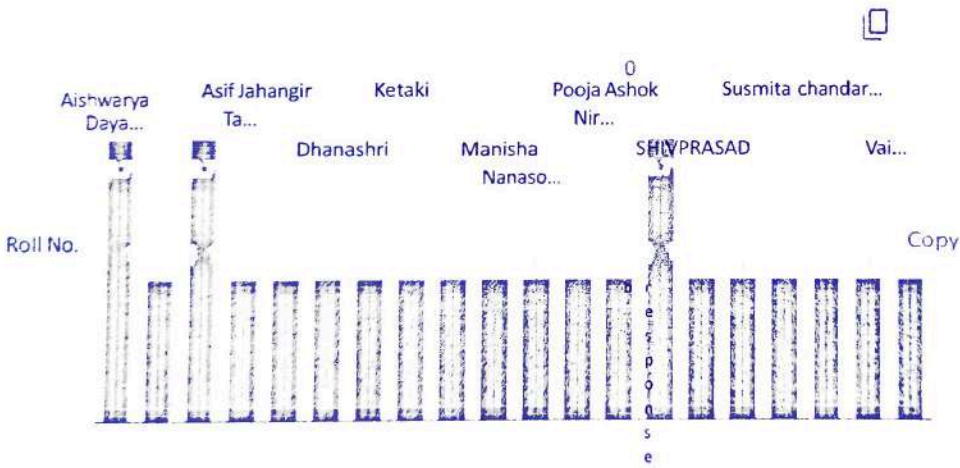
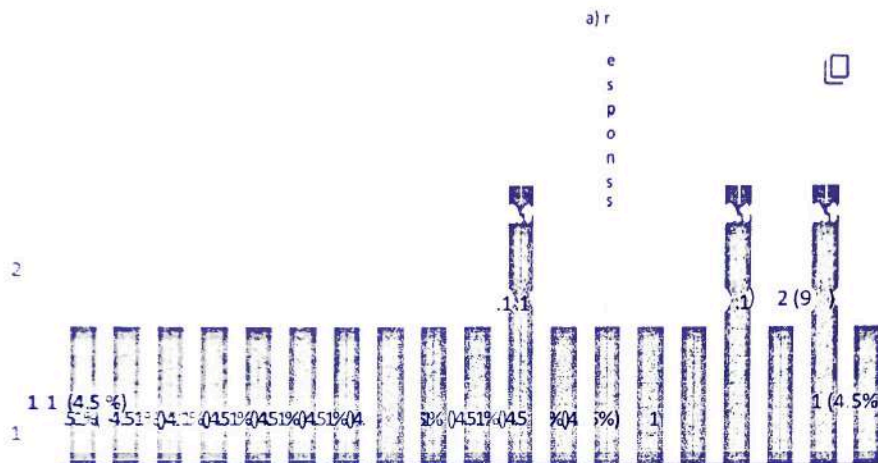
Mark only one oval.

- Large , small
- small , large
- large , large
- small, small

Internal Examination On Quantum Mechanics

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Responses: Quantum Mechanics-II				
Timestamp	Score	Name of the Student	Roll No.	Email address
17/3/2021:35:12 PM	10 / 20	Dinesh Naresh Sherala	1317	dineshsherala@gmail.com
17/3/2021 12:38:06	16 / 20	Sushant Suresh Bote	1301	sushantbote2015@gmail.com
17/3/2021 12:39:45	20 / 20	Ruchita Rajendra Mandavkar.	1308	ruchitam10198@gmail.com
17/3/2021 12:40:21	20 / 20	Sushant Suresh Bote	1301	sushantbote2015@gmail.com
17/3/2021 12:41:38	20 / 20	Ketaki vasantrao kadam	1306	ketakikadam166@gmail.com
17/3/2021 12:54:55	20 / 20	Patil Pranit Mohanrao	1313	pranitpatil5312@gmail.com
17/3/2021 13:11:24	18 / 20	Amruta Anandrao shinde	1318	shindea4042@gmail.com
17/3/2021 13:16:54	18 / 20	Asmita Anandrao Patil	1311	asmitapatil113@gmail.com
17/3/2021 13:22:18	20 / 20	Manisha Nanaso Patil	1312	mp3465691@gmail.com
17/3/2021 13:23:47	18 / 20	Vaishnavi Namdeo Tamke	1320	tamkevaishnavi68@gmail.com
17/3/2021 13:25:58	20 / 20	Pooja Ashok Nirmale	1309	Poojanirmale310@gmail.com
17/3/2021 13:28:02	20 / 20	Anuradha Layman Patole	1315	anuradhaayarekar@gmail.com
17/3/2021 13:28:16	20 / 20	Susmita chandar Kamble	1307	susmitakamble2311@gmail.com
17/3/2021 13:28:29	20 / 20	Dhanashri Rajesh Phadatare	1316	dhanashrip511@gmail.com
17/3/2021 13:29:26	20 / 20		1315	anuradhaayarekar@gmail.com
17/3/2021 13:30:18	18 / 20	Mahesh Deshmukh	1302	deshmukhmahesh713@gmail.com
17/3/2021 13:39:41	20 / 20	Amit Ashok Jadhav	1304	pamit3124@gmail.com
17/3/2021 14:03:27	20 / 20	SHIVPRASAD KRISHNARAO JADHAV	1305	shivajadhav100sj@gmail.com
17/3/2021 14:36:16	20 / 20	Asif Jahangir Tamboli	1319	Asif.tamboli7980@gmail.com
17/3/2021 20:57:18	16 / 20	Swati Dinkar Patil	1314	swatidpatil5241@gmail.com
17/3/2021 14:40:49	20 / 20	Aishwarya Dayanand Deshmukhe	1303	aishwaryadeshmukhe11@gmail.com

**Vivekanand College, Kolhapur (Autonomous).**

**Department of Physics**  
**M. Sc. Part-I Internal Examination**  
**Subject: Physics**  
**Title of the Paper: Statistical Mechanics**

**Date: 18/03/2021**  
**Day: Wednesday**

**Time: 12.00 noon to 1.00 pm**  
**Marks: 20**

- 
- 1) Attempt any 10  
2) Each Question carry two mark.  
\* Indicates required question

1. Name of the student \*

2. Email \*

3. PRN \*

4. Roll Number \*

1. The volume of phase space

*Mark only one oval.*

h3

h2

2.  $(P^2/2m) + (1/2Kq^2)$  is ..... of a three dimensional harmonic oscillator.

*Mark only one oval.*

- energy area
- circumference
- volume

3. For one dimensional oscillator the area of phase cell  $dx dp_x = \dots\dots\dots$

*Mark only one oval.*

- $h^3$
- $h^4$
- $h^5$
- $h$

4. Trajectory path is determined from the equation

*Mark only one oval.*

- Newton kepler
- Hamiltonian
- Heisenberg
-

5. The principle of conservation of density in phase space  $(d\rho/dt) = \dots\dots\dots$

*Mark only one oval.*

- 1
- 0
- 1
- 2

6. The principle of conservation of extension in phase space  $d/dt dT = \dots\dots\dots$

*Mark only one oval.*

- 1
- 0
- 1
- 2

7. An ensemble is said to be in a statistical equilibrium then phase should be independent of

*Mark only one oval.*

- time
- volume
- velocity
- entropy

8. An ensemble is said to be in a statistical equilibrium then average values in the ensemble should be independent of

*Mark only one oval.*

- time
- volume
- entropy
- velocity

9. The entropy  $\sigma$  of a system in equilibrium will depend on ..... of the system

*Mark only one oval.*

- energy
- temperatur
- eheat
- velocity

10. The entropy  $\sigma$  of a system in equilibrium will depend on ..... of the system.

*Mark only one oval.*

- volume, pressure, magnetization
- volume, pressure, electricity
- volume, pressure, electrostatics
- volume, pressure, dielectric

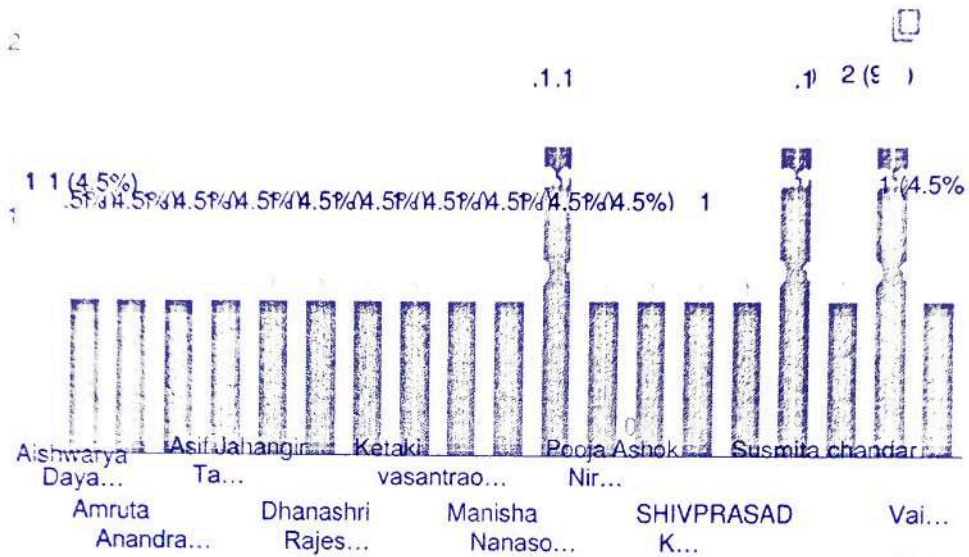
25 responses

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Name of the Student

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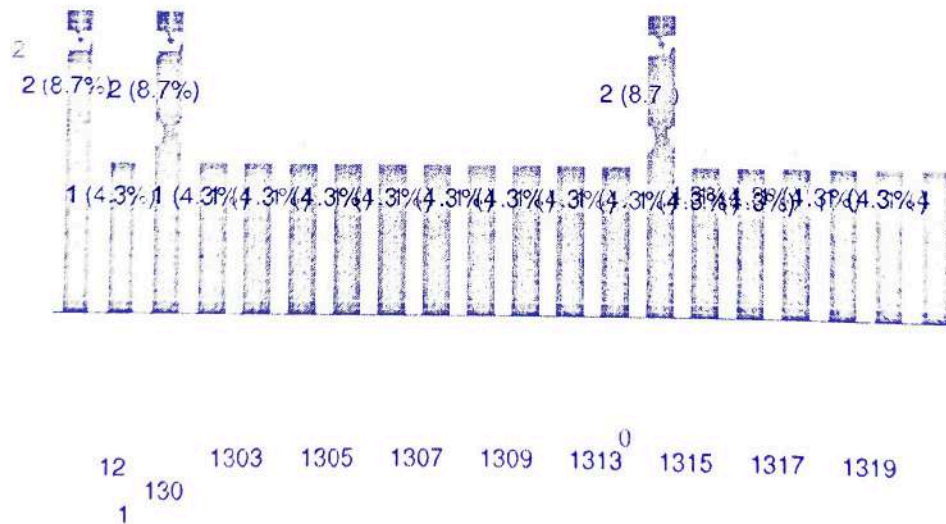
25 responses



Roll No.

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25 responses





**Vivekanand College, Kolhapur  
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**Department of**

**Responses: Stastical Mechanics**

Timestamp	Score	Name of the Student	Roll No.	Email address
18/10/2021 12:54:55 PM	10 / 20	Dinesh Naresh Sherala	1317	dineshsherala@gmail.com
18/3/2021 1:11:24 PM	16 / 20	Sushant Suresh Bote	1301	sushantbote2015@gmail.com
18/3/2021 1:16:54 PM	20 / 20	Mandavkar.	1308	ruchitam10198@gmail.com
18/3/2021 1:22:18 PM	20 / 20	Sushant Suresh Bote	1301	sushantbote2015@gmail.com
18/3/2021 1:23:35 PM	20 / 20	Ketaki vasantrao kadam	1306	ketakikadam166@gmail.com
18/3/2021 1:23:35 PM	20 / 20	Patil Pranit Mohanrao	1313	pranitpatil5312@gmail.com
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18/3/2021 12:39:45 PM	20 / 20	Deshmukhe	1303	aishwaryadeshmukhe11@gmail.com
18/3/2021 12:40:21 PM	20 / 20	Manisha Nanaso Patil	1312	mp3465691@gmail.com
18/3/2021 12:41:38 PM	18 / 20	Tamke	1320	tamkevaishnavi68@gmail.com
18/3/2021 2:03:27 PM	20 / 20	Pooja Ashok Nirmale	1309	Poojanirmale310@gmail.com
18/3/2021 2:36:16 PM	20 / 20	Anuradha Layman Patole	1315	anuradhaayarekar@gmail.com
18/3/2021 2:40:49 PM	20 / 20	Susmita chandar Kamble	1307	susmitakamble2311@gmail.com
18/3/2021 8:57:18 PM	20 / 20	Phadatare	1316	dhanashrip511@gmail.com
18/3/2021 8:59:42 PM	18 / 20	Mahesh Deshmukh	1302	deshmukhmahesh713@gmail.com
18/3/2021:35:12 PM	20 / 20	Amit Ashok Jadhav	1304	pamit3124@gmail.com

**Vivekanand College, Kolhapur  
(Autonomous).**

**Department of  
Physics**

**M. Sc. Part-I Interna Examination**

**Subject: Physics**

**Title of the Paper: Electrodynamics**

**Date: 19/3/2021**

**Time: 12.00 noon to 1.00 pm**

**Day: Thursday**

**Marks: 20**

- 
- 1) Attempt any 10
  - 2) Each Question carry two marks.
  - \* Indicates required question

1. Name of the student

2. Email address

3. Roll No.

4. 1. Only charge particle in.....motion emits electromagnetic radiations.

*Mark only one oval.*

- accelerated
- non accelerated
- uniform
- circular

1/9/24, 1:06 PM

Internal Examination on Electrodynamics Chapter 3- Electromagnetic Fields and Radiation

5. 2. The radiation emitted by the particle is called .....radiations when the particle motion is non-relativistic.

*Mark only one oval.*

- synchrotron  
 cyclotron  
 betatron  
 LINAC

6. formula gives radiated power from the charge in non-relativistic motion.

*Mark only one oval.*

- Larmor's  
 Lienard's  
 Weichert's  
 Lienard- Weichert's

7. The radiated power depends both on ..... of charge particles.

*Mark only one oval.*

- velocity and motion velocity  
 and acceleration power and  
 velocity momentum and  
 velocity

8. The... .. radiations produced by the charges moving in a material medium in which particle velocity is greater than the phase velocity of generated EM radiations.

Mark only one oval.

- Electromagnetic
- Cherenkov
- Relativistic
- Non-relativistic

9. The ..... Radiation emitted if the particle is ultra relativistic motion.

Mark only one oval.

- Synchrotron
- cyclotron
- betatron
- LINAC

10. is used to process of producing the radiations.

Mark only one oval.

- Cherenkov
- Bremsstrahlung EM radiation breaking radiation
- 
-

11. Bremsstrahlung has a ..... Spectrum.

Mark only one oval.

- linear
- no continuous radiated
- Continuous
- 

12. The electromagnetic radiation produced by the deceleration of charged particle, such as an electron when deflected by another charged particle such as an atomic nucleus is called .....

Mark only one oval.

- Bremsstrahlung
- Cerencov
- continuous abnormal
- 
- 

13. Untitled Question

Mark only one oval.

- Option 1

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# Internal Examination on Electrodynamics Chapter 3- Electromagnetic Fields and Radiation

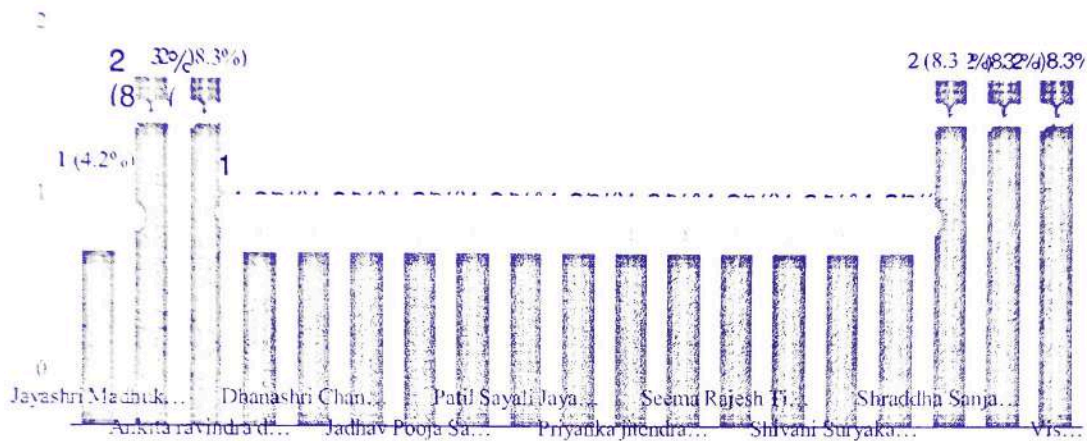
25 responses

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Name of the student

25 responses

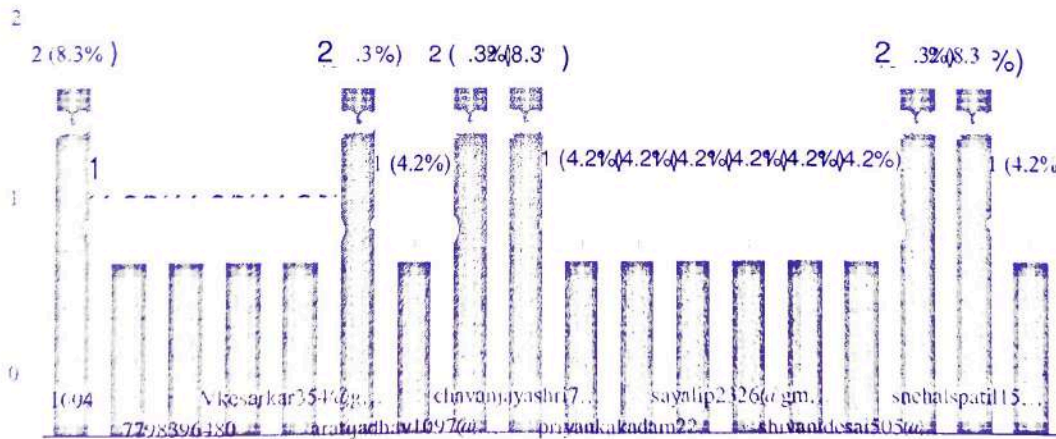
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Email address

25 responses

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## Responses: Electrodynamics

Timestamp	Name of the student	Email address	Roll No.	Marks
19/3/2021 1:40:53 PM	Vishwambar subhash bandgar	bandgarvishoo@gmail.com	1601	16/20
19/3/2021 1:45:19 PM	Seema Rajesh Tivale		1620	16/20
19/3/2021 1:46:29 PM	Gadekar mahesh Madhav	mahesh.gadekar197@gmail.com	1605	14/20
19/3/2021 1:50:44 PM	Vishwambar subhash bandgar	bandgarvishoo@gmail.com	1601	18/20
19/3/2021 1:52:42 PM	Ankita ravindra digraje	1604	1604	18/20
19/3/2021 1:53:05 PM	Shivani prakash patil	sp5805813@gmail.com	1616	18/20
19/3/2021 1:53:17 PM	Priyanka Gundoji Patil	priyankapatil0497@gmail.com	1617	18/20
19/3/2021 1:53:36 PM	Jadhav Pooja Sadanand	jadhavpooja14692@gmail.com	1606	16/20
19/3/2021 1:54:00 PM	Arati Kumar Jadhav	aratijadhav1097@gmail.com	1608	16/20
19/3/2021 1:54:07 PM	Shital Vilas Patil	shitalvpatil2498@gmail.com	1614	14/20
19/3/2021 1:54:12 PM	Samruddhi Shrikant Salunkhe	1619	1619	18/20
19/3/2021 1:54:33 PM	Anisa Ajj Nadaf	anisanadaf97@gmail.com	1613	16/20
19/3/2021 1:54:51 PM	Ankita ravindra digraje	1604	1604	16/20
19/3/2021 1:55:37 PM	Snehal sanjay patil	snehalspatil1598@gmail.com	1618	18/20
19/3/2021 1:55:54 PM	Snehal sanjay patil	snehalspatil1598@gmail.com	1618	18/20
19/3/2021 1:57:57 PM	Jayashri Madhukar Chavan	chavanjayashri7@gmail.com	1602	16/20
19/3/2021 1:58:55 PM	Patil Sayali Jayasing	sayalip2326@gmail.com	1615	16/20
19/3/2021 1:59:34 PM	Shivani Suryakant Desai	shivaniidesai505@gmail.com	1603	18/20

19/3/2021 2:00:50 PM	Shraddha Sanjay Kumbhar	raddhakumbhar20898@gmail.c	1611	16/20
19/3/2021 2:02:16 PM	Shraddha Sanjay Kumbhar	raddhakumbhar20898@gmail.c	1611	16/20
19/3/2021 2:03:21 PM	Jayashri madhukar chavan	chavanjayashri7@gmail.com	1602	20/20
19/3/2021 2:03:56 PM	Dhanashri Chandrakant Jadhav	7798396480	1607	20/20
19/3/2021 2:04:52 PM	Anisa Ajj Nadaf	anisanadaf97@gmail.com	1613	16/20



**Vivekanand College, Kolhapur (Autonomous).**

**Department of Physics**

**M. Sc. Part-II Internal Examination**

**Subject: Physics**

**Title of the Paper: Atomic and molecular Physics**

**Date: 20/03/2021**

**Time: 12.00 noon to 1.00 pm**

**Day: Friday**

**Marks: 20**

- 1) Attempt any 10
- 2) Each Question carry two mark.
- \* Indicates required question

1. Name of the student \*

2. Email \*

3. PRN \*

4. Roll Number \*

5. In case of diatomic molecule, the graph of potential energy of vibrating as well as rotating molecule against inter-nuclear distance,  $R$  shows nearly ..... nature

*Mark only one oval.*

- straight line
- hyperbolic
- elliptical
- parabolic

6. For harmonic oscillator the simple selection rule for vibrational changes is given as

.....

*Mark only one oval.*

- $\Delta v=0$   
  $\Delta v=\pm 2$   
  $\Delta v=\pm 1$   
  $\Delta v=\pm 3$

7. Vibrational spectrum is not observable in case of homonuclear molecules because they possess.....

*Mark only one oval.*

- Dipole moment   
Linear geometry  No  
dipole moment  Non  
linear geometry

8. If the diatomic molecule is raised from vibration level  $v=2$  to  $v=3$ , then the absorption spectral line will be observed at \_\_\_\_\_ cm

*Mark only one oval.*

- $\omega_{osc}$   
  $2 \omega_{osc}$   
  $3 \omega_{osc}$   
  $4 \omega_{osc}$

9. In case of diatomic molecule , the vibrational energy observed at  $v=0$  level can be given as  $\epsilon_0 = \dots \text{ cm}^{-1}$

*Mark only one oval.*

- 5/2 w Osc
- 1/2 w Osc
- 3/2 w Osc
- 0

10. In case of anharmonic oscillator the approximate value of anharmonicity constant is  $\chi_e = \dots\dots\dots$

*Mark only one oval.*

- 0.1
- 0.01
- 0.5
- 0.05

11. In Infrared spectroscopy, which of the following is used as source?

*Mark only one oval.*

- Mercury
- Klystron Valve
- Sodium
- Nernst Filament

12. In IR spectroscopy, usually.....is used as detector.

*Mark only one oval.*

- Photodiode
- Electrochemical detector
- Mass Detector
- Thermocouple

13. The vibrational frequency of elastic bond of molecule depends on reduced mass of system and .....

*Mark only one oval.*

- Force constant
- Period of Vibration
- Bond length
- Amplitude of Vibration

14. The diatomic molecule , HCl has vibrational energy seperation nearly .....cm<sup>-1</sup>.

*Mark only one oval.*

- 1000
- 10000
- 3000
- 30000

15.

*Mark only one oval.*

- Option 1

16. Untitled Question

*Mark only one oval.*

Option 1

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# Internal Examination : Atomic and Molecular Physics

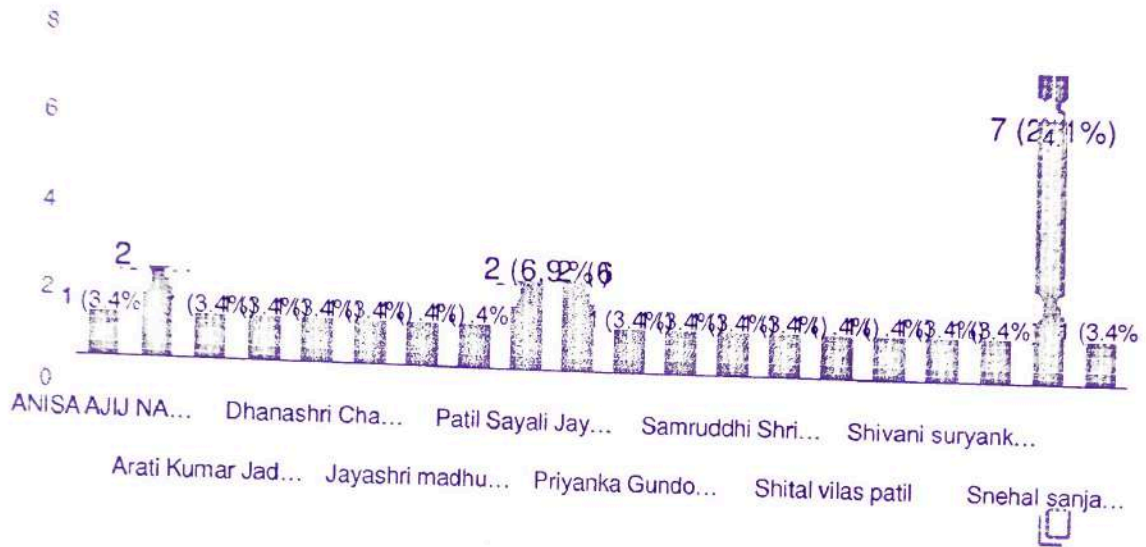
25 responses

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Name of the student

25 responses

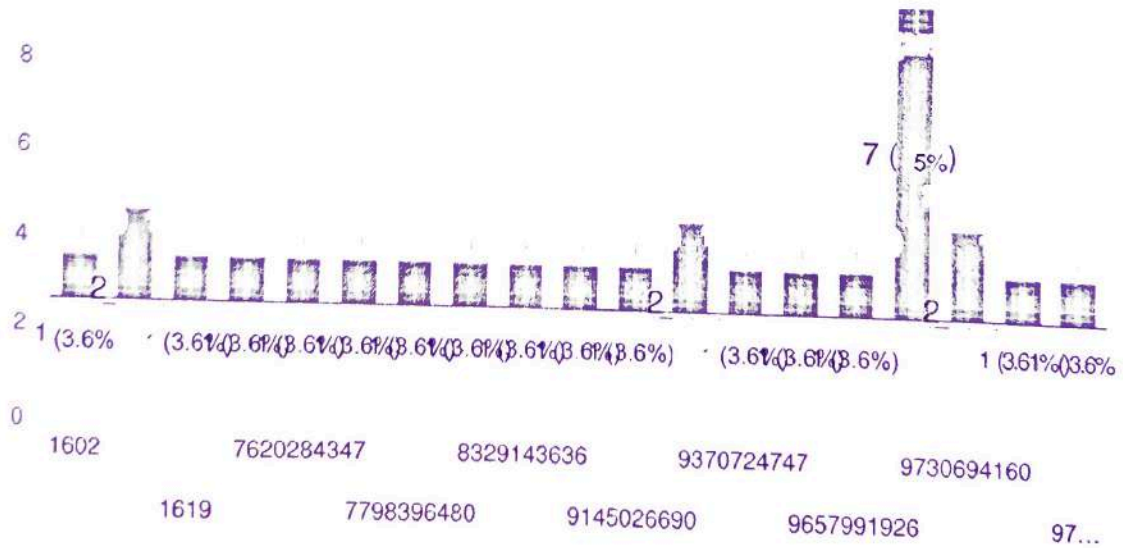
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Email address

25 responses

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**Responses: Atomic and Molecular  
Physics**

Timestamp	Score	Name of the Student	Roll No.	Email address
20/03/2021:35:12 PM	10 / 20	Dinesh Naresh Sherala	1317	dineshsherala@gmail.com
20/3/2021 12:38:06 PM	16 / 20	Sushant Suresh Bote	1301	sushantbote2015@gmail.com
20/3/2021 12:39:45 PM	20 / 20	Ruchita Rajendra Mandavkar.	1308	ruchitam10198@gmail.com
20/3/2021 12:40:21 PM	20 / 20	Sushant Suresh Bote	1301	sushantbote2015@gmail.com
20/3/2021 12:41:38 PM	20 / 20	Ketaki vasantrao kadam	1306	ketakikadam166@gmail.com
20/3/2021 12:54:55 PM	20 / 20	Patil Pranit Mohanrao	1313	pranitpatil5312@gmail.com
20/3/2021 1:11:24 PM	18 / 20	Amruta Anandrao shinde	1318	shindea4042@gmail.com
20/3/2021 1:16:54 PM	18 / 20	Asmita Anandrao Patil	1311	asmitapatil113@gmail.com
20/3/2021 1:22:18 PM	20 / 20	Manisha Nanaso Patil	1312	mp3465691@gmail.com
20/3/2021 1:23:35 PM	20 / 20	Manisha Nanaso Patil	1312	mp3465691@gmail.com
20/3/2021 1:23:47 PM	18 / 20	Vaishnavi Namdeo Tamke	1320	tamkevaishnavi68@gmail.com
20/3/2021 1:25:58 PM	20 / 20	Pooja Ashok Nirmale	1309	Poojanirmale310@gmail.com
20/3/2021 1:28:02 PM	20 / 20	Anuradha Layman Patole	1315	anuradhaayarekar@gmail.com
20/3/2021 1:28:16 PM	20 / 20	Susmita chandar Kamble	1307	susmitakamble2311@gmail.com
20/3/2021 1:28:29 PM	20 / 20	Dhanashri Rajesh Phadatare	1316	dhanashrip511@gmail.com
20/3/2021 1:29:26 PM	20 / 20	Anuradha Layman Patole	1315	anuradhaayarekar@gmail.com
20/3/2021 1:30:18 PM	18 / 20	Mahesh Deshmukh	1302	deshmukhmahesh713@gmail.com
20/3/2021 1:39:41 PM	20 / 20	Amit Ashok Jadhav	1304	pamit3124@gmail.com
20/3/2021 2:03:27 PM	20 / 20	SHIVPRASAD KRISHNARAO JADHAV	1305	shivajadhav100sj@gmail.com

20/3/2021 2:36:16 PM	20 / 20	Asif Jahangir Tamboli	1319	Asif.tamboli7980@gmail.com
20/3/2021 8:57:18 PM	16 / 20	Swati Dinkar Patil	1314	swatidpatil5241@gmail.com
20/3/2021 8:59:42 PM	20 / 20	Swati Dinkar Patil	1314	swatidpatil5241@gmail.com
20/3/2021 2:40:49 PM	20 / 20	Aishwarya Dayanand Deshmukhe	1303	aishwaryadeshmukhe11@gmail.com