

| Day | Class/ Section | 8.15 am – 9.10 am | 9.10 am – 10.05 am | 10.45am - 11.40am | 11.40 am – 12.30 pm | 12.30 pm – 1.20 pm | 1.20 pm-02.10 pm |
|-----|-----------------|---------------------|--------------------|----------------------|----------------------|---------------------|--------------------|
| | | Revision | Revision | Revision | Revision | Revision/Remedial | Remedial |
| MON | III Sem BSc MEC | Electronics III- JS | Maths III - RN | English | DBMS (AC) | Language Hin/Kan | Maths III - RN |
| | III Sem BSc PCM | Physics III - AB | Maths III - RN | English | Chemistry III- RG | Language Hin/Kan | Maths III - RN |
| | V Sem BSc MEC | Electronics V - MM | Maths VI - PK | Electronics VI- JS | VP (LCB) | Maths V - RN | Maths VI - RAK |
| | V Sem BSc PCM | Maths VI (RAK) | Maths VI - PK | Chemistry VI- N | Physics VI - AB | Maths V - RN | Maths VI - RAK |
| TUE | III Sem BSc MEC | Maths III - RN | Language Hin/Kan | DBMS (AC) | Lib | English | English/AE |
| | III Sem BSc PCM | Maths III - RN | Language Hin/Kan | Lib | Chemistry III- RG | English | English/AE |
| | V Sem BSc MEC | Maths VI (RAK) | Maths VI - PK | VP (LCB) | Electronics VI- JS | Java (NKV) | Electronics V - MM |
| | V Sem BSc PCM | Chemistry V- RG | Physics VI- AB | Chemistry VI - N | Physics V - MCV | Physics V - MCV | Chemistry VI - N |
| WED | III Sem BSc MEC | CSC -SE LCB | English | Electronics III - JS | Electronics III - JS | Maths III - RN | CSC -SE LCB |
| | III Sem BSc PCM | Physics III - AB | English | Chemistry III - RG | Chemistry III - RG | Maths III - RN | Physics III - AB |
| | V Sem BSc MEC | Maths VI - RAK | VP (LCB) | VP (LCB) | Lib | Java (NKV) | Electronics VI- JS |
| | V Sem BSc PCM | Chemistry V- RG | Maths V - RN | Maths VI - RAK | Physics V- MCV | Physics VI - AB | Chemistry V- RG |
| THU | III Sem BSc MEC | DBMS- AC | Language Hin/Kan | Electronics III - JS | Maths III - RN | Maths III - RN | Language Hin/Kan |
| | III Sem BSc PCM | Physics III - AB | Language Hin/Kan | Chemistry III - RG | Maths III - RN | Maths III - RN | Language Hin/Kan |
| | V Sem BSc MEC | Java (NKV) | Electronics V - MM | Java (NKV) | Electronics VI- JS | Electronics VI- JS | Maths V - PK |
| | V Sem BSc PCM | Chemistry VI- N | Physics VI - AB | Maths VI - RAK | Chemistry V- RG | Physics VI -AB | Maths V - PK |
| FRI | III Sem BSc MEC | Maths III - RN | CSC -SE LCB | Language Hin/Kan | Electronics III- JS | Electronics III- JS | DBMS- AC |
| | III Sem BSc PCM | Maths III - RN | Chemistry III- RG | Language Hin/Kan | Physics III - AB | Physics III - AB | Chemistry III- RG |
| | V Sem BSc MEC | Maths V (PK) | Library | Electronics V - MM | Electronics V - MM | VP (LCB) | Java (NKV) |
| | V Sem BSc PCM | Chemistry VI- N | Physics V- MCV | Chemistry VI- N | Maths VI - PK | Maths V- RN | Physics V- MCV |
| SAT | III Sem BSc MEC | Maths III - RN | English | CSC -SE LCB | Electronics III- JS | NCP- MM | |
| | III Sem BSc PCM | Maths III - RN | English | Chemistry III- RG | Physics III - AB | NCP- MM | |
| | V Sem BSc MEC | Electronics VI- JS | VP (LCB) -L1 | Maths V - RN | VP (LCB) | NCP | |
| | V Sem BSc PCM | Maths VI - RAK | Chemistry VI- N | Physics V- MCV | Maths V - RN | NCP | |


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| Day | Class/ Section | 8.15 am – 9.10 | 9.10 am – 10.05 | 10.45am – 11.40 | 11.40 am – 12.3 | 12.30 pm – 1.20 | 1.20 pm-02.10 pm |
|-----|----------------|-----------------|---------------------|-------------------|------------------|----------------------------|-------------------------------|
| Mon | II Sem BSc A | English (409) | E2-MM (410) | E1-MM (410) | CS-NKV- L1 | CS-NKV- L1 | OE |
| | II Sem BSc B | English (409) | CC- N (107) | PSY1 (107) | CS-NKV- L1 | CS-NKV- L1 | OE |
| | II Sem BSc C | English (409) | CC-N (107) | MATHS- RAK (4) | CS-NKV- L1 | CS-NKV- L1 | OE |
| | IV Sem BSc | English (409) | PHY 2-MCV (40) | MATHS- RAK (4) | LIB | Health & Wellne | OE |
| | VI Sem BSc MEC | | CC-N (107) | MATHS- RAK (4) | CHE LAB-N | CHE1 LAB-N | OE |
| | VI Sem BSc PCM | | PHY 2-MCV (40) | Lab Activity - IA | CHE LAB-N | CHE1 LAB-N | OE |
| Tue | II Sem BSc A | CS-NKV (410) | OMT - JS | E LAB-MM | E1 LAB-MM | Language Hin (3) | OE |
| | II Sem BSc B | CS-NKV (410) | OMT - JS | PSY (107) | LIB | Language Hin (3) | OE |
| | II Sem BSc C | CS-NKV (410) | OMT - JS | MATHS I LAB- R | MATHS I LAB- R | Language Hin (3) | OE |
| | IV Sem BSc | LIB | Digital Fluency | MATHS I LAB- R | MATHS I LAB- R | Language Hin (3) | OE |
| | VI Sem BSc MEC | CHE -N (409) | Digital Fluency | MATHS I LAB- R | MATHS I LAB- RAK | | OE |
| | VI Sem BSc PCM | CHE -N (409) | Digital Fluency | CC-PK (409) | LIB | | OE |
| Wed | II Sem BSc A | E LAB-MM | E LAB-MM | CS-NKV (410) | Language Hin (3) | English (409) | OMT-RAK |
| | II Sem BSc B | PSY 1 LAB | PSY 1 LAB | CS-NKV (410) | Language Hin (3) | English (409) | OMT-RAK |
| | II Sem BSc C | | LIB | CS-NKV (410) | Language Hin (3) | English (409) | OMT-RAK |
| | IV Sem BSc | | LIB | LIB | Language Hin (3) | English (409) | PHY 1-MCV (409) |
| | VI Sem BSc MEC | CHE LAB-N | CHE LAB-N | CHE 1-N (409) | | | Lib |
| | VI Sem BSc PCM | CHE LAB-N | CHE LAB-N | CHE 1-N (409) | | | PHY 1-MCV (409) |
| Thu | II Sem BSc A | E1-MM (410) | CS-NKV (410) | English (409) | CC- MM (410) | Language Hin (3) | EC/CC |
| | II Sem BSc B | PSY1 (107) | CS-NKV (410) | English (409) | CC- MM (410) | Language Hin (3) | EC/CC |
| | II Sem BSc C | LIB | CS-NKV (410) | English (409) | MATHS- RAK (4) | Language Hin (3) | EC/CC |
| | IV Sem BSc | PHY LAB -MCV | PHY LAB -MCV | English (409) | MATHS- RAK (4) | Language Hin (3) | EC/CC |
| | VI Sem BSc MEC | LIB | CHE -N (409) | | MATHS- RAK (410) | | |
| | VI Sem BSc PCM | PHY LAB -MCV | PHY 1 LAB -MCV | | CHE -N (409) | | |
| Fri | II Sem BSc A | E1-MM (410) | CS-NKV (410) | English (409) | OMT-JS | Seminar- NKV (4) | Language Hin (312) /Kan (409) |
| | II Sem BSc B | PSY1 (107) | CS-NKV (410) | English (409) | OMT-JS | Seminar- NKV (4) | Language Hin (312) /Kan (409) |
| | II Sem BSc C | MATHS- RAK (4) | CS-NKV (410) | English (409) | MATHS I LAB- R | MATHS I LAB- R | Language Hin (312) /Kan (409) |
| | IV Sem BSc | MATHS- RAK (4) | Lib | English (409) | MATHS I LAB- R | MATHS I LAB- R | Language Hin (312) /Kan (409) |
| | VI Sem BSc MEC | MATHS- RAK (4) | Digital Fluency- RN | | MATHS I LAB- R | MATHS I LAB- RAK | |
| | VI Sem BSc PCM | Health & Wellne | Digital Fluency- RN | | Lib | Seminar - MCV (409) | |
| Sat | II Sem BSc A | CS-NKV- L1 | Seminar-MM (4) | OE | CS-NKV- L1 | Health & Wellness/Yoga- AB | |
| | II Sem BSc B | CS-NKV- L1 | Activity - AS (La) | OE | CS-NKV- L1 | Health & Wellness/Yoga- AB | |
| | II Sem BSc C | CS-NKV- L1 | MATHS- RAK (4) | OE | CS-NKV- L1 | Health & Wellness/Yoga- AB | |
| | IV Sem BSc | PHY 1-MCV (40) | MATHS- RAK (4) | OE | PHY 1 LAB -MCV | PHY 1 LAB -MCV | |
| | VI Sem BSc MEC | CHE 1-N (409) | MATHS- RAK (4) | OE | LIB | | |
| | VI Sem BSc PCM | PHY 1-MCV (40) | CHE 1-N (409) | OE | PHY 1 LAB -MCV | | |

DEPARTMENT OF SCIENCE
REMEDIAL CLASS REPORT

Faculty : Pandikani

SUBJECT: MATHEMATICS VII

VI Sem PCM & MEC

Remedial classes during the academic year 2021-22 was conducted as per the following tin

| Sl No | Roll No | Name of the student | Dates | |
|-------|------------|---------------------|-------|------|
| | | | 16/9 | 17/9 |
| 1 | 19PCM003K | Arun.M | P | P |
| 2 | 19PCM004E | Ashish Robin | P | P |
| 3 | 19PCM009K | Chandana | P | P |
| 4 | 19PCM011K | Devi.P | P | P |
| 5 | 19PCM012K | Jackwin.J | A | P |
| 6 | 19PCM017K | Dundaiah.M | P | P |
| 7 | 19PCM018E | Malika arjun.K | P | P |
| 8 | 19PCM022K | Santhosha | P | P |
| 9 | 19PCM025k | Tharun.V | P | P |
| 10 | 19PCM028T | Velu.S | P | P |
| 11 | 19PCM036K | Chayasree | P | P |
| 12 | 19PCM1037E | Ringku Mushahary | A | P |
| 13 | 19MEC006K | Hithesh | P | P |
| 14 | 19MEC008TA | Manoj Kumar | P | P |
| 15 | 19MEC010K | Punitha | P | P |
| 16 | 19MEC012K | Sandhya | P | P |
| 17 | 19MEC014H | Sanjay Singh | A | P |
| 18 | 19MEC017K | Souder.R | P | P |
| 19 | 19MEC019K | Sujin Paul | P | P |
| 20 | 19MEC020K | Sumiksha | P | P |
| 21 | 19MEC022K | Yogasathish.S | A | P |
| 22 | 19MEC024K | Rashmi | A | P |

The details of the activities conducted is as follows:

| S.No | Date | Total Students | presentees | Absentees |
|------|---------|----------------|------------|-----------|
| 1 | 16/9/22 | 22 | 17 | 5 |
| 2 | 17/9/22 | 22 | 22 | 0 |

SUBJECT: BUSINESS MATHEMATICS -II(OE)


Remedial classes during the academic year 2021-22 was conducted as per the following tin

| | | Name of the | Dates |
|--|--|-------------|-------|
|--|--|-------------|-------|

| Sl. No. | Roll No. | student | 20/9 | 21/9 |
|---------|----------|-----------------|------|------|
| 1 | 21D002H | Abhijith | P | P |
| 2 | 21D003K | Akshatha | P | P |
| 3 | 21D009K | Bhimana Gowda.Y | P | P |
| 4 | 21D022K | Nagesh.K | P | P |
| 5 | 21D023H | Nidhin.V.Rajesh | P | P |
| 6 | 21D032K | Sherwin Antony | P | P |
| 7 | 21D033H | Shikha | P | P |
| 8 | 21D048TA | Sreeharan.M | P | P |
| 9 | 21D059H | Ravi kumar | P | P |
| 10 | 21D061K | Sam Ephreim | P | P |
| 11 | 21D062H | Ankith Roy | P | P |
| 12 | 21D063K | Akshay.D | P | A |

The details of the activities conducted is as follows:

| S.No | Date | Total Students | presentees | Absentees |
|------|---------|----------------|------------|-----------|
| 1 | 20/9/22 | 12 | 12 | 0 |
| 2 | 21/9/23 | 12 | 11 | 1 |
| 3 | 23/9/24 | 12 | 11 | 1 |
| 4 | 24/9/25 | 12 | 11 | 1 |
| 5 | 24/9/26 | 12 | 11 | 1 |


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**DEPARTMENT OF SCIENCE
 REMEDIAL CLASS REPORT**

SUBJECT: ELECTRONICS IV(MEC)

FACULTY MEMBER: JENIFER SUJITHA G

The remedial classes during the academic year 2021-22 was conducted as per the following time table

| Sl. No | Roll No. | Name of the student | Dates | | | |
|--------|------------|---------------------|------------|------------|------------|------------|
| | | | 10/09/2022 | 11/09/2022 | 16/09/2022 | 17/09/2022 |
| 1 | 20MEC005TE | Malles N | P | P | P | P |
| 2 | 20MEC014K | Hamsaveni M | P | P | P | P |
| 3 | 20MEC003K | Harsha kumar V | P | P | P | P |
| 4 | 20MEC006K | Manikanta R | P | P | P | P |
| 5 | 20MEC010K | Harshith S | P | P | P | P |

The details of the activities conducted is as follows:

| S No | Date | Total Students | presentees | No. of Absentees | Activity |
|------|------------|----------------|------------|------------------|-------------|
| 1 | 10/09/2022 | 5 | 5 | nil | Revised the |
| 2 | 11/09/2022 | 5 | 5 | nil | Revised the |
| 3 | 16/09/2022 | 5 | 5 | nil | Solved the |
| 4 | 17/09/2022 | 5 | 5 | nil | Solved the |

SUBJECT: ELECTRONICS VII

The remedial classes during the academic year 2021-22 was conducted as per the following time table.

| Sl. No | Roll No. | Name of the student | Dates | | | |
|--------|------------|---------------------|------------|------------|--|--|
| | | | 16-09-2022 | 17-09-2022 | | |
| 1 | 19MEC008TA | Manoj Kumar | P | P | | |
| 2 | 19MEC010K | Punitha | P | P | | |
| 3 | 19MEC014H | Sanjay Singh | P | P | | |
| 4 | 19MEC017K | Sounder R | P | P | | |
| 5 | 19MEC019K | Sujin Paul | P | P | | |
| 6 | 19MEC020K | Sumiksha | P | P | | |
| 7 | 19MEC022K | Yogasathish.S | P | P | | |
| 8 | 19MEC024K | Rashmi | P | P | | |

The details of the activities conducted is as follows:

| S No | Date | Total Students | presentees | No. of Absentees | Activity |
|------|------------|----------------|------------|------------------|-----------------|
| 1 | 16-09-2022 | 8 | 8 | 0 | Solved previous |
| 2 | 17-09-2022 | 8 | 8 | 0 | Revised |


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DEPARTMENT OF SCIENCE REMEDIAL CLASS REPORT

SUBJECT: MATHEMATICS II

Faculty: Roshini Koshy

classes during the academic year 2021-22 was conducted as per the followi

| Sl. No. | Roll No. | NAMES | Dates | |
|---------|------------|----------------|------------|------------|
| | | | 22-09-2022 | 23-09-2022 |
| 1 | 21MC001K | B.G. BHARATH | P | P |
| 2 | 21MC004K | SANKALPA. R | P | P |
| 3 | 21CSM007K | SAI CHANDRA | P | P |
| 4 | 21CSM009TE | YELLANKI DIVYA | P | P |
| 5 | 21PM010K | LAVANYA.N | P | P |
| | | | | |
| | | | | |
| | | | | |

The details of the activities conducted is as follows:

| S.No | Date | Total Students | presentees | Absentees |
|------|------------|----------------|------------|-----------|
| 1 | 22-09-2022 | 5 | 5 | 0 |
| 2 | 23-09-2022 | 5 | 5 | 0 |
| 3 | 24-09-2022 | 5 | 5 | 0 |
| | | | | |

SUBJECT: MATHEMATICS VIII

classes during the academic year 2021-22 was conducted as per the followi

| Sl. No. | Roll No. | Name of the student | Dates | |
|---------|------------|---------------------|------------|------------|
| | | | 16-09-2022 | 17-09-2022 |
| 1 | 19MEC006K | Hithesh | P | P |
| 2 | 19MEC008TA | Manoj Kumar | P | P |
| 3 | 19MEC010K | Punitha | P | P |
| 4 | 19MEC012K | Sandhya | P | P |
| 5 | 19MEC014H | Sanjay Singh | P | P |
| 6 | 19MEC017K | Sounder.R | P | P |
| 7 | 19MEC019K | Sujin Paul | P | P |
| 8 | 19MEC020K | Sumiksha | P | P |
| 9 | 19MEC022K | Yogasathish.S | P | P |
| 10 | 19MEC024K | Rashmi | P | P |

The details of the activities conducted is as follows:

| S No | Date | Total Students | presentees | Absentees |
|------|------------|----------------|------------|-----------|
| 1 | 16-09-2022 | 10 | 10 | 0 |
| 2 | 17-09-2022 | 10 | 10 | 0 |
| | | | | |
| | | | | |

SUBJECT: MATHEMATICS II (OE)

classes during the academic year 2021-22 was conducted as per the followi

| Sl. No. | Roll No. | Name of the student | Dates | |
|---------|-------------|---------------------|------------|------------|
| | | | 22-09-2022 | 23-09-2022 |
| 1 | 21CSEL002K | NISHAND. S | P | A |
| 2 | 21CSEL004TA | PURUSHOTAMA | A | P |
| 3 | 21CSEL006K | ROSHAN | P | A |
| 4 | 21CSEL007K | SIDESH. P | P | A |
| 5 | 21CSEL009K | SUMAN KUMAR | A | P |
| 6 | 21CSEL010K | BHARATH. Y | P | A |
| 7 | 21CSEL011TA | SUSHMITHA R | A | P |
| 8 | 21CSEL012TA | YESHWANTH.S | P | A |
| 9 | 21CSEL013K | GANESH .M | A | P |
| 10 | 21CSEL044K | SATISH KUMAR K | P | A |
| 11 | 21CSEL031H | SHRAVAN KARTH | P | A |
| 12 | 21CP001K | ASHWINI M.N | P | P |
| 13 | 21CPOO7TA | PRAVEEN KUMAR | P | P |
| 14 | 21PC005TE | SURA LAKSHMI T | A | P |
| | | | | |

The details of the activities conducted is as follows:

| S.No | Date | Total Students | presentees | Absentees |
|------|------------|----------------|------------|-----------|
| 1 | 22-09-2022 | 14 | 9 | 5 |
| 2 | 23-09-2022 | 14 | 7 | 7 |
| | | | | |
| | | | | |


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DEPARTMENT OF SCIENCE REMEDIAL CLASS REPORT

SUBJECT: MATHEMATICS IV(PCM & MEC)

Faculty: Rashmi N

Remedial classes during the academic year 2021-22 was conducted as per the following tim

| Sl. No. | Roll No. | Name of the student | Dates | |
|---------|------------|---------------------|------------|------------|
| | | | 10/09/2022 | 14/09/2022 |
| 1 | 20MEC005TE | Mallesh N | A | P |
| 2 | 20MEC014K | Hamsaveni M | P | P |
| 3 | 20PCM002H | Ancy E S | A | P |
| 4 | 20PCM003K | Ankush S | P | P |
| 5 | 20PCM005K | Benitto Prakash A | A | P |
| 6 | 20PCM010TA | Raju A | P | P |
| 7 | 20PCM016TA | Bhenny Sam S | A | P |

The details of the activities conducted is as follows:

| S.No | Date | Total Students | presentees | Absentees |
|------|------------|----------------|------------|-----------|
| 1 | 10/09/2022 | 7 | 3 | 4 |
| 2 | 14/09/2022 | 7 | 7 | 0 |
| 3 | 16/09/2022 | 7 | 6 | 1 |
| 4 | 17/09/2022 | 7 | 4 | 3 |

SUBJECT: MATHEMATICS VIII(PCM)

Remedial classes during the academic year 2021-22 was conducted as per the following tim

| Sl. No. | Roll No. | Name of the student | Dates | |
|---------|-----------|---------------------|------------|------------|
| | | | 16/09/2022 | 17/09/2022 |
| 1 | 19PCM003K | Arun M | P | P |
| 2 | 19PCM011K | Devi P | P | P |
| 3 | 19PCM012K | Jackwin | P | P |
| 4 | 19PCM017K | M Dundaiah | A | P |
| 5 | 19PCM018E | Mallikarjun K | A | P |
| 6 | 19PCM022K | Santhosha | P | P |
| 7 | 19PCM025K | V Tharun | P | P |
| 8 | 19PCM028T | Velu S | P | P |

The details of the activities conducted is as follows:

| S No | Date | Total Students | presentees | Absentees |
|------|------------|----------------|------------|-----------|
| 1 | 16/09/2022 | 8 | 6 | 2 |

| | | | | |
|---|------------|---|---|---|
| 2 | 17/09/2022 | 8 | 8 | 0 |
| | | | | |
| | | | | |


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**DEPARTMENT OF SCIENCE
REMEDIAL CLASS REPORT**

SUBJECT: ELECTRONICS IV(MEC)

FACULTY MEMBER

The remedial classes during the academic year 2021-22 was conducted as per the following t

| Sl No | Roll No. | Name of the student | Dates | | |
|-------|------------|---------------------|------------|------------|------------|
| | | | 10/09/2022 | 11/09/2022 | 16/09/2022 |
| 1 | 20MEC005TE | Mallesh N | P | P | P |
| 2 | 20MEC014K | Hamsaveni M | P | P | P |
| 3 | 20MEC003K | Harsha kumar | P | P | P |
| 4 | 20MEC006K | Manikanta R | P | P | P |
| 5 | 20MEC010K | Harshith S | P | P | P |

The details of the activities conducted is as follows:

| S No | Date | Total Students | presentees | Absentees | Activity |
|------|------------|----------------|------------|-----------|-------------|
| 1 | 10/09/2022 | 5 | 5 | nil | Revised the |
| 2 | 11/09/2022 | 5 | 5 | nil | Revised the |
| 3 | 16/09/2022 | 5 | 5 | nil | Solved the |
| 4 | 17/09/2022 | 5 | 5 | nil | Solved the |

SUBJECT: ELECTRONICS VII

The remedial classes during the academic year 2021-22 was conducted as per the following t

| Sl. No. | Roll No. | Name of the student | Dates | | |
|---------|------------|---------------------|------------|------------|--|
| | | | 16-09-2022 | 17-09-2022 | |
| 1 | 19MEC008TA | Manoj Kumar | P | P | |
| 2 | 19MEC010K | Punitha | P | P | |
| 3 | 19MEC014H | Sanjay Singh | P | P | |
| 4 | 19MEC017K | Sounder.R | P | P | |
| 5 | 19MEC019K | Sujin Paul | P | P | |
| 6 | 19MEC020K | Sumiksha | P | P | |
| 7 | 19MEC022K | Yogasathish.S | P | P | |
| 8 | 19MEC024K | Rashmi | P | P | |

The details of the activities conducted is as follows:

| S No | Date | Total Students | presentees | Absentees | Activity |
|------|------------|----------------|------------|-----------|----------|
| 1 | 16-09-2022 | 8 | 8 | 0 | Solved |
| 2 | 17-09-2022 | 8 | 8 | 0 | Revised |

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ELECTRONICS CITY, BENGALURU - 560 100

Class: M.C.C

Month & Year: Apr. 2022



Section: Remedial Remedial

Subject: Maths VII

ATTENDANCE REGISTER

| No. | Roll No. | Name | Sep | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | No. of days present | Remarks |
|-----|-----------|-----------------|-----|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------------------|---------|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | |
| 1. | 19MECO01K | AMRUTHA. K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | 19MECO02T | ASHOK KUMAR. B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | 19MECO03K | CHATHRA. R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | 19MECO04K | HARSHITHA. K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | 19MECO05K | HITESH. R | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | 19MECO06K | KALAVATHI. S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | 19MECO07T | MANOJ KUMAR. G | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | 19MECO08K | NAYYA. G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. | 19MECO09K | PUNITHA. R | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. | 19MECO10K | REJA. E | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11. | 19MECO11K | SANDHYA. V | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12. | 19MECO12H | SANTHY SINGH | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. | 19MECO13K | SHACHI KIRAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14. | 19MECO14K | SANIYA. V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15. | 19MECO15K | SAUNDAR. R | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16. | 19MECO16K | SUTIN PAUL. S | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17. | 19MECO17K | SUMIKSHA. S | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18. | 19MECO18K | VANDANA. V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19. | 19MECO19K | YOGA SATHISH. S | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20. | 19MECO20H | LIBIN S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. | 19MECO21K | RASHMI | 0 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

[Handwritten Signature]

HEAD
Department of Science
St. Francis de Sales College
Bengaluru - 560 100.

Number present in Daily

ST FRANCIS DE SALES COLLEGE

ELECTRONICS CITY, BENGALURU - 560 100

Class: P.C.M

Section: Remedial

Month & Year: Ref. Secol

Subject: Maths - VII



ATTENDANCE REGISTER



| No. | Roll No. | Name | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | No. of days present | Remarks |
|-----|-----------|---------------------|------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------------------|---------|
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| 1 | 19PCM003K | ARUN M | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 19PCM004E | ASHISH ROBIN BARRA | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 19PCM005K | AUXILIYA. J. P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 19PCM007H | BHAVANA RATU RATHOD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 19PCM009K | CHANDANA. B S | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 19PCM010K | Deepthi. V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 19PCM011K | DEVI. P | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 19PCM012K | JACKWIN. T | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 19PCM013K | JHANVI. S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 19PCM014K | JYOTHI. G. P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 19PCM015E | JYOTHI SINGH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 19PCM017K | M DUNDAIAH | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 19PCM018E | MALLIKARTUN. K | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 19PCM019K | MONISHA S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 19PCM020K | SAGAR B NARATAWAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 19PCM021K | CANDEEP KURALI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 19PCM022K | SANTHOSH | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 19PCM024K | SWATHI L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 19PCM025K | V THARUN | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 19PCM028T | VELU S | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 19PCM029K | POOJASHREE N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 19PCM030H | SHALINI S SANGWAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 19PCM032E | RIMI SARKAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 19PCM034E | KUNAL THAKUR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 19PCM036K | CHAYASHREE K | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 19PCM037E | RINAKU MUSHAHARY | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 19PCM038K | VARUN H D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Velu S
 Head
 St. Francis de Sales College
 Bangalore

23/09/2022

Remedial class
Even Semester 2021-22
Mathematics II

| Sl. No. | Name of the student | no. of hours attended | Signature of the student |
|---------|---------------------|-----------------------|---|
| 1. | Sankalp R | 4hrs |  |
| 2. | B. G. Bhavath | 4hr |  |


HEAD
Department of Science
St. Francis de Sales College
Bengaluru - 560 100.

- ① Derive Schrodinger wave Equation?
- ② Difference real gas & Ideal gases?
- ③ State the postulates of Quantum mechanics?

Answer

① The Physical state of the system of time (t) is described as wave function $\psi(x,t)$.

* The wave function $\psi(x,t)$ at 1st & 2nd derivatives
 $\frac{\partial \psi(x,t)}{\partial x}$ lean m.s.

* the allowed values of observable (A) are the eigen value of a_i .

* ~~the wave function is observable from or from the relation of $\langle A \rangle = \bar{A}$ and ψ is assumed values.~~

* $\hat{A} \psi = a_i \psi$ is known as eigen values.

* The wave function ($\psi(x,t)$) is the function equation.

* the average value (A) is observed from the relation $\langle A \rangle = \bar{A}$ and ψ is assumed to be normalised.

②. Ideal gas.

→ It obeys the Boy's law, Charles's law and Avogadro's law at all temperature & pressure.

→ volume occupied molecules is negligible.

→ The force of attraction b/w the molecules.

Real gas.

→ It tends to obey the gas law from low pressure & high temperature.

→ it does not negligible

→ Attractive force b/w the gas molecules.

④. Consider the electron in an atom and its total energy E is given as.

$$E = \text{K.E.} + \text{P.E.} = \frac{1}{2}mv^2 + \text{P.E.} = \frac{p^2}{2m} + V$$

$$E = \frac{p_x^2 + p_y^2 + p_z^2}{2m} + V \quad \text{--- (1)}$$

$$p_x \frac{\partial E}{\partial p_x} = \frac{h}{2\pi i} \frac{\partial}{\partial x} + p_y = \frac{h}{2\pi i} \frac{\partial}{\partial y} + p_z = \frac{h}{2\pi i} \frac{\partial}{\partial z} + V$$

PV diagram for the same change in pressure and volume. Explain.

$$\frac{1}{2m} \left[\frac{h}{2\pi i} \frac{\partial}{\partial x} \right]^2 + \left[\frac{h}{2\pi i} \frac{\partial}{\partial y} \right]^2 + \left[\frac{h}{2\pi i} \frac{\partial}{\partial z} \right]^2 + V$$

$$\frac{h^2}{8\pi^2 i} \left[\frac{\partial^2}{\partial x^2} \right] + \left[\frac{\partial^2}{\partial y^2} \right] + \left[\frac{\partial^2}{\partial z^2} \right] + V \quad \text{--- (2)}$$

$$\frac{\hbar^2}{8\pi^2 i} + \nabla^2 + V - \textcircled{3}$$

According to quantum mechanics.

$$= \hat{H}\psi + = \epsilon\psi - \textcircled{4}$$

$$= \frac{\hbar^2}{8\pi^2 i} + (\nabla^2 + V)\psi = \epsilon\psi$$

$$= \frac{\nabla^2}{\epsilon} + \textcircled{0} - \frac{8\pi^2 i}{\hbar^2} = \textcircled{[\psi = \psi]} = \underline{\underline{0}}$$

$$= \frac{\nabla^2}{\psi} + \frac{8\pi^2 i}{\hbar^2} = (\epsilon - V) = \underline{\underline{0}}$$

* Physical state of an system of time t is described by the wave function $\psi(x, t)$.

* the wave function $\psi(x, t)$ are 1st & 2nd derivatives

$$\frac{\partial \psi(x, t)}{\partial x} = \frac{\partial^2 \psi(x, t)}{\partial x^2} \text{ are continuous finite and single valued.}$$

$$\text{normalised } \int_{-\infty}^{\infty} \psi(x, t) \cdot \psi^*(x, t) dx = 1$$

* to every observable quantity in classical mechanics there corresponds a linear (\hat{A}).

$$\int \psi_j^* \hat{A} \psi_i dx = \int \psi_i^* \hat{A} \psi_j dx.$$

* the allowed values of an observable (A) are eigen value 'a_i'

$$[\hat{A} \psi_i = a_i \psi_i] \text{ also known as eigen values equation}$$

$[\psi_i]$ is eigen function.

* the average value $\langle A \rangle$ is observed from the relation $\langle A \rangle = \bar{A} = \int_{-\infty}^{\infty} \psi^* \hat{A} \psi dx$ where ψ is assumed to be normalised

* the wave function $[\psi(x, t)]$ is the function of equation.

$$\hat{A} \psi(x, t) = \hbar \left[\frac{\partial^2 \psi(x, t)}{\partial x^2} \right]$$

Ruchitha T.

- 1) Derive Schrodinger wave Equation?
- 2) D/w Ideal gas and Real gas?
- 3) State the postulates of Quantum Mechanics?

→ Answers

3) * The physical state of an atom time t is described as $\psi(x,t)$

* The wave function $\psi(x,t)$, and the 1st and 2nd derivatives as $\frac{\partial \psi(x,t)}{\partial x}$, $\frac{\partial^2 \psi(x,t)}{\partial x^2}$

where as its singular.

and normalised at $\int_{-\infty}^{\infty} \psi^* \psi dx = 1$

* The derived value of A is an observable and a_i is an Eigen value.

$$[A\psi, A\psi_i] = [A\psi, a_i\psi]$$

* The value of A is an observable and can be obtained as $[A\psi, A\psi_i]$ as a_i is an Eigen value.

* The wave function of an Equation.

Repeat

*

2) Ideal gas

* A gas which obeys all Boyle's law, Charles law, Avagadro's law at temperature and pressure.

* Volume occupied by the ideal gas is negligible.

* No intermolecular force of attraction.

Real gas.

* A gas which obeys gas at decrease pressure and increase temperature

* Volume occupied by the real gas is not negligible.

* Attractive force between the gas molecules.

Consider an electron in an atom. The total energy of E is given by.

$$E = T + V = \frac{1}{2}mv^2 + V = \frac{p^2}{2m} + V.$$

$$E = \frac{p_x^2 + p_y^2 + p_z^2}{2m}$$

$$p_x = \frac{h}{2\pi i} \frac{\partial}{\partial x}, \quad p_y = \frac{h}{2\pi i} \frac{\partial}{\partial y}, \quad p_z = \frac{h}{2\pi i} \frac{\partial}{\partial z}$$

$$\hat{H} = \frac{h}{2m} \left[\left(\frac{h}{2\pi i} \frac{\partial}{\partial x} \right)^2 + \left(\frac{h}{2\pi i} \frac{\partial}{\partial y} \right)^2 + \left(\frac{h}{2\pi i} \frac{\partial}{\partial z} \right)^2 \right] + V$$

$$\hat{H} = \frac{-h^2}{8\pi^2 m} \left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} + \frac{\partial^2}{\partial z^2} \right) + V$$

$$\hat{H} = \frac{-h^2}{8\pi^2 m} \nabla^2 + V \quad \text{--- (3)}$$

According to Quantum Mechanics,

$$\hat{H} \psi - E \psi = 0 \quad \text{--- (4)}$$

$$= \frac{-h^2}{8\pi^2 m} \nabla^2 \psi + V \psi - E \psi = 0$$

$$\nabla^2 \psi + \frac{8\pi^2 m}{h^2} (E - V) \psi = 0$$

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3) * The physical state of an time t is described as $\psi(x, t)$

* The wave function $\psi(x, t)$ at the 1st and 2nd derivatives are $\frac{\partial \psi(x, t)}{\partial x}$, $\frac{\partial^2 \psi(x, t)}{\partial x^2}$ are single, continuous

and ~~no~~ normalised $\int_{-\infty}^{\infty} \psi^* \psi dx = 1$.

* To Every observable quantity of classical mechanics, the corresponding linear 'A' is Hermitian operator in Quantum Mechanics.

* The allowed values of the observable 'A' are the Eigen value 'a_i'

$$[A\psi, a_i\psi]$$

* The Average value of A is obtained ~~as~~ ^{from the} $[A\psi, a_i\psi]$
relation $\langle A \rangle = \bar{A} \Rightarrow \int_{-\infty}^{\infty} \psi^* A \psi dx$.

where ψ is assumed to be normalised.

* The wave function $(\psi_{x,t})$ is the function of Equation.

$$\hat{H} \psi(x, t) = \hbar \left[\frac{\partial^2 \psi(x, t)}{\partial x^2} \right]$$

ans

Derive Schrodinger wave Eqn.

Sankalp P.

→ Consider an e⁻ in an atom. Its total energy E is described by:

$$E = T + V = \frac{1}{2}mv^2 = \frac{p^2}{2m} + V.$$

$$E = \frac{p_x^2}{2m} + \frac{p_y^2}{2m} + \frac{p_z^2}{2m} + V$$

$$p_x = \frac{\partial x \cdot h \cdot \pi i}{\partial m} \quad p_y = \frac{\partial y \cdot h \cdot \pi i}{\partial m} \quad p_z = \frac{\partial z \cdot h \cdot \pi i}{\partial m}$$

$$E = \frac{1}{2m} \left[\left(\frac{\partial x \cdot h \cdot \pi i}{\partial m} \right)^2 + \left(\frac{\partial y \cdot h \cdot \pi i}{\partial m} \right)^2 + \left(\frac{\partial z \cdot h \cdot \pi i}{\partial m} \right)^2 \right] + V.$$

$$E = \frac{h^2 \nabla^2}{8m\pi^2} + V$$

$$\hat{H}\psi = E\psi.$$

$$\hat{H} = -\frac{h^2 \nabla^2}{8m\pi^2} + V.$$

$$= -\frac{h^2 \nabla^2}{8m\pi^2} \psi + V \psi.$$

$$\left(-\frac{h^2 \nabla^2}{8m\pi^2} + V \right) \psi = (E - 0) \psi$$

$$-\frac{h^2 \nabla^2}{8m\pi^2} \psi + (E - V) \psi = 0$$

2.

Ideal Gas

- It obeys all gas laws
- Volume occupied by gas molecule is negligible
- No intermolecular attraction force
- It is hypothetical

Real Gas

It tends to obey only at low pressure & high temp.

Volume occupied by gas molecule is not negligible

Attraction force b/w gas molecules are appreciable due to which pressure is less than i.e. calculated using calculator

All gases are real gases.

| | | | | | | | | | | | | | |
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3. Postulates.

P-1: The physical state of the system at time t is described as $\psi(x,t)$.

P-2: The wavefunction $\psi(x,t)$ & its 1st & 2nd derivatives $\frac{\partial \psi(x,t)}{\partial x}$, $\frac{\partial^2 \psi(x,t)}{\partial x^2}$ are continuous finite & single. It is normalized. $\int \psi(x,t) \psi^*(x,t) dx = 1$.

P-3: All observable of classical mechanics are corresponds to linear hermitian operator.

P-4: The average value $\langle A \rangle$ or \bar{A} are the Eigen value i.e. $\hat{A} \psi = a \psi$. There are known an Eigen value & ψ is the Eigen function.

P-5:

P-6: The quantum mechanical ~~are~~ corresponds to the classical expression operators that constructs the classical expression in terms of variables & converted to Operator.

P-7: The wavefunction $\psi(x,t)$ is the Eigen function. i.e. $\hat{H} \psi = E \psi$ where $\hat{H} = -\frac{\hbar^2}{2m} \frac{\partial^2}{\partial x^2} + V(x,t)$.

Postulates:

P.1. The physical state of the system at time t is described as $\Psi(x,t)$.

P.2. The Ψ function & its 1st & 2nd derivatives.

$\frac{\partial \Psi(x,t)}{\partial x}$, $\frac{\partial^2 \Psi(x,t)}{\partial x^2}$ are continuous finite & single

Ψ is normalized. $\int_{-\infty}^{\infty} \Psi(x,t) \cdot \Psi^*(x,t) = 1$

P.3. To Every observable quantity in quantum mechanics corresponds to linear hermitian operator.

P.4. The allowed observable 'A' are the eigen values that is $\hat{A}\psi = a\psi$. This is known as Eigen value & ψ is the Eigen function.

P.5. The average value $\langle A \rangle$ or \bar{A} is obtained by.
 $\langle A \rangle = \bar{A} = \int_{-\infty}^{\infty} \Psi^* \hat{A} \Psi dx$. ~~It~~ where Ψ is assumed to be normalized.

P.6. The quantum mechanics corresponds to the observable ~~are~~ ^{that} constructed by classical expression in terms of variables & converted to operator.

P.7. The wave function $\Psi(x,t)$ in the wave eqn.

$$\hat{H}\Psi = i\hbar \left[\frac{\partial \Psi(x,t)}{\partial t} \right].$$

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| Remarks | | |

① Derive schrodinger wave equation.

$$E = T + V$$

$$= \frac{1}{2} mv^2 + V$$

$$= \frac{p^2}{2m} + V$$

$$E = \frac{p_x^2 + p_y^2 + p_z^2}{2m} + V \quad \text{--- ①}$$

$$p_x = \frac{h}{2\pi i} \frac{\partial}{\partial x}, \quad p_y = \frac{h}{2\pi i} \frac{\partial}{\partial y}, \quad p_z = \frac{h}{2\pi i} \frac{\partial}{\partial z}$$

and $V \rightarrow V$

$$\hat{H} = \frac{1}{2m} \left\{ \left(\frac{h}{2\pi i} \frac{\partial}{\partial x} \right)^2 + \left(\frac{h}{2\pi i} \frac{\partial}{\partial y} \right)^2 + \left(\frac{h}{2\pi i} \frac{\partial}{\partial z} \right)^2 \right\} + V$$

$$= \frac{h^2}{8\pi^2 m} \left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} + \frac{\partial^2}{\partial z^2} \right) + V. \quad \text{--- ②}$$

or

$$\hat{H} = \frac{-h^2}{8\pi^2 m} \nabla^2 + V. \quad \text{--- ③}$$

According to quantum postulate

$$\hat{H}\psi = E\psi \quad \text{--- ④}$$

$$\left(\frac{-h^2}{8\pi^2 m} \nabla^2 + V \right) \psi = E\psi.$$

$$\nabla^2 \psi + \frac{8\pi^2 m}{h^2} (E - V) \psi = 0 //$$

② Differentiate real and ideal gas.

Real gas

ideal gas

- | | |
|---|--|
| ⊗ gases have volume | ⊗ gas have no volume |
| ⊗ intermolecular forces b/w particles | ⊗ no inter molecular forces b/w particles. |
| ⊗ not hypothetical | ⊗ it is hypothetical. |
| ⊗ Volume occupied by gas molecule is not negligible | ⊗ Volume occupied by gas molecule is negligible. |

③ state postulate of Quantum mech^t.

consider a particle moving in one direction.

Postulate ①:- The physical state of system at time t is described by wave function

$$\psi(x,t)$$

Postulate ②:- The wave function $\psi(x,t)$ and its 1st and 2nd derivatives $\frac{\partial \psi(x,t)}{\partial x}$, $\frac{\partial^2 \psi(x,t)}{\partial x^2}$ is continuous finite and single value is normalised.

Postulate ③:-

The every observable Quantity in classical mech^t, The corresponding linear Hermitian Operator (\hat{A}) in Quantum mech^t.

Postulate ④ :- The allowed values of an observable is eigen value a_i .

$$\text{i.e., } \hat{A}\psi_i = a_i\psi_i$$

Postulate ⑤ :-

The average value $\langle A \rangle$ is obtained from relation $\langle A \rangle = \bar{A} = \int_{-\infty}^{\infty} \psi^* \hat{A} \psi$.

When ψ is assumed to be normalised.

Postulate ⑥ :-

The wave function $\psi(x,t)$ is a function of equation

$$\hat{H}\psi(x,t) = \hbar \left[\frac{\partial \psi(x,t)}{\partial t} \right]$$

Ans