THE LUCKNOW PUBLIC COLLEGIATE HOLIDAY HOMEWORK CLASS-Nursery 2024-2025

English	ORAL-Revise A – Z with phonic sound.
	WRITTEN- Do the work given in homework
	notebook.
Maths	ORAL-Revise counting from 1 -70.
	WRITTEN- Do the work given in homework
	notebook .
Hindi	मौखिक :वर्णमाला _अ से अ: तक पढ़े
	लिखित :कार्य पुस्तिका में दिए गए कार्य का
	अभ्यासकरें
G.K.	Read page no. 55,56 & 57

THE LUCKNOW PUBLIC COLLEGIATE HOLIDAY HOMEWORK CLASS-KG 2024-2025

English	ORAL-Revise 3 letter words
	WRITTEN- Do the work given in 3 in 1 copy
Maths	ORAL-Revise number names 71-90
	WRITTEN- Do the work given in 3 in 1 copy
Hindi	ORAL-आ (ा) एंव इ(ी) की मात्रा के शब्दवर्णों की
	बगियाकिताब से पढें।
	WRITTEN- Do the work given in 3 in 1 coyp
G.K.	Revise Topic - flowers

HOLIDAY HOMEWORK CLASS - I

S.No	Subject	Homework
1.	ENGLISH	Read the lesson- The Royal Toothache. Learn all the work done in book
	LITERATURE	and notebook.
		Poem: Learn the poem- The Little Plant
2.	ENGLISH	Learn Lesson-18: Question Words from book and notebook.
	LANGUAGE	
3.	HINDI	कविता (बिल्ली और दिल्ली) याद करे ।
		कार्य पुस्तिका में कराये समस्त कार्य का लिखित और मौखिक अभ्यास
		करे ।
4.	MATHS	Learn the tables 2-10, months of the year and days of the week.
		Practice five sums of addition, subtraction and multiplication.
5.	EVS	Learn the work done in book and notebook of Lesson-15: We need air.
6.	G.K.	Learn the work done on page numbers- 52,55,56,58 and 59.
7.	CRAFT	Make four fridge magnets.

HOLIDAY HOMEWORK CLASS- 2

S.No	Subject	Homework
1.	ENGLISH	Read Ch-7 The different seasons and do pg no 99
	LITERATURE	in book.
		Learn the poem Dan is an Astronaut.
2.	ENGLISH	Learn Chapter -18 Adverbs
	LANGUAGE	Write 5 lines on My Birthday in SW notebook
3.	MATHS	Practice Chapter-10 Measurement and learn tables 2 to 20.
		And Write the tables in SW notebook.
4.	EVS	Learn Chapter 14 Pollution.
5.	G.K.	Complete page 51 to 60.
6.	Computer	Read chapter Word 2019.
		Make icons of word window in scrapbook.
7.	HINDI	कविता सतरंगी परियां याद करें।W/D कॉपी में चार पेज सुलेख करें। कार्य पुस्तिका (CW) में
		कराए गए कार्य को याद करें एवं लिखकर अभ्यास करें।

HOLIDAY HOMEWORK (2024-2025)

CLASS 3

SUBJECTS	HOMEWORK
English Literature	Learn the work done in the book and notebook.
	Do one page writing daily in your English W/D notebook.
English Language	Learn the work done in the book and notebook.
Maths	Learn the `tables 2 to 12.
	 Practice 5 sums daily from Chapter –Time in your Maths Self Work
	notebook.
	Make a model of a clock.
GK	Learn the work done in your book.
Hindi	Learn the work done in your note book.
	 Do 3page writing in your W/D note book.
Science	Learn the work done the in the book and notebook.
	Read Chapter 12.
	Make a model of solar system using waste material.
S.St	Learn the work done in book and notebook.
	Make a model of a letter box using waste material.
Computer	Read the chapter "LETS LEARN SCRATCH" and learn difficult words.
	 Make your favourite sprite of scratch using cardboard, thick sheet
	etc .
Art and Craft	Do page 18-20 of craft book.
	 Make A key ring using wool or different materials

HOLIDAY HOMEWORK

CLASS 4

SUBJECTS	HOMEWORK
English Literature	Learn the poem 'Friends' and practice one page writing in the self work notebook
English Language	Write an essay in your self work notebook on how you spent your winter vacations.
Maths	Practice the sums of exercise 11.1 and 11.2 in the self work notebook
GK	Find 10 current affairs and write it in your self work notebook.
Hindi Literature	Learn the work done in note book. Learn poem "फूलऔरकाँटा " Do 3 pages writing in your W/D note book.
Hindi Language	Learn क्रिया.
Science	Ch-11 Our Earth and it's Neighbours Learn the book exercises and work done in the notebook. Make Solar system album.
S.St	Ch-11 Our Natural Resources Learn the book exercises and work done in the notebook.
Computer	Read chapter Ms Word 2019, learn book and note book work of Revision chapter Ms Power Point.
Art and Craft	Complete pg 18-20 of craft book. Make craft from waste CDs.

	CLASS V HOLIDAY HOME WORK (WINTER VACATIONS)		
S.NO	SUBJECTS	HOLIDAY HOMEWORK	
1	MATHS	Practice sums of Ex 9.1 & 9.2 in your SW register.	
2	SCIENCE	Learn the book exercises of Ch-12.	
3	SOCIAL STUDIES	Learn the book exercises of Ch - 5.	
4	COMPUTER	Read the Ch - 5 Editing the cell content 2019.	
5	G.K	Write 10 current affairs in your SW notebook.	
6	ENGLISH LANGUAGE	Revise the work done in book.	
7	ENGLISH LITERATURE	Read the Ch - Chipko Takes Root. Learn the work done in notebook. Do 10 pg writing in your W/D notebook.	
8	HINDI	Learn the work done in notebook. Do 3 pg writing in WD notebook.	
9	SANSKRIT	Read and learn Ch- Karan Karak and Word meanings.	
10	URDU	Learn Huruf Tahazzi & Urdu no. Read Ch of Unit-4. Writing 10 pages.	
11	ART & CRAFT	Do pg 17 to 20 in craft book. Make Tea coasters .	
12	FRENCH	Revise all the seasons.	

HOLIDAY HOMEWORK CLASS VI

S.NO	SUBJECT	HOMEWORK
1	ENGLISH LIT	1. Read the Chapter "Change of Heart".
		2. Learn 'Questions and Answers' of the Chapter "The Winner"
2	ENGLISH LANG	 Complete the work given in the class of ch" Modals; semi modals" (Exercise - B) on Pg-70 in Notebook. Complete the work given in the class of "ch - Modals Perfect" Exercise D on Pg-76. Do Comprehension given on Pg-160 in Book only. Write a story in your own words in about (80-100) words with the help of given clues. A thirsty beegoes to river to drink water is carried away by the current of water—a tree on the bank of river sitting a dove there—sees drowning bee—plucks a leaf, drops near drowning bee-bee climbs it _dries wings flies awaysome days later_ hunter comes _sees doveaim bee sees danger stings himisses aimdove flies away and saves.
3	HINDI LIT	Hindi lit- पढ़ाए गए पाठ के शब्दार्थ तथा प्रश्न उत्तर याद करें। PT 2 के पाठ्यक्रम को पुनरावृत्ति करें।
4	HINDI LANG	निबन्ध लेखन - "आदर्श विद्यार्थी " दिए गए विषय पर 200 शब्दों के निबन्ध लिखें। शब्द भंडार - दिए गए सभी शब्द भंडार को अपनी कक्षा पुस्तिका में लिखें। विलोम - 81 से 100 तक अनेकार्थक शब्द -20 से 35 तक वाक्यों के लिए एक शब्द - 35 से 50 तक पर्यायवाची शब्द - 35 से 50 दिए गए मुहावरे 30 से 45 तक अर्थ के साथ वाक्य सहित कक्षा पुस्तिका में लिखें।
5	PHYSICS	Written work:- 1. Complete the written work of notebook done in the class. 2. Make the project and working model on A. Motion and it's type , B. Windmill working model C. Solar eclipse and lunar eclipse model. Note -Make a project on the topic alloted to you. Learning work:- Learn the question answer and exercises of annual examination syllabus.
6	CHEMISTRY	Written work:- 1. Complete the written work of notebook done in the class. 2. Make the project and working model on A. water cycle working model B. Acid rain working model, C. Distillation working model. Note - Make a project on the topic alloted to you. Learning work:- Learn the question answer and exercises of annual examination syllabus.

		Written work:-
		1. Complete the written work of notebook done in class.2. In an A4 sheet , draw table on
		deficiency diseases , their symptoms and their causes .
		3. Make a working model of the following -
		A. Photosynthesis model,
7	BIOLOGY	B. Respiratory system model,
		C. Day and night concept working model.
		Note - Make project on the topic alloted to you.
		Learning work :-
		Learn the question answer and exercises of the Annual Examination syllabus.
		A. List objects around yourself at your home and find it's perimeter and area.
		1. Table top
		2. Window
		3. 1 square tile
		4. Switch board
8	MATHS	5. Door
		6. Carpet
		7. An equilateral triangle made of wire or thread
		7. An equilateral triangle made of whe of thread
		B. Learn all the formulas of mensuration, decimals and understanding elementary shapes
		Read Ch- The Gupta and The Post Gupta Period, Local Self Government in Urban Areas
9	HIST/CIV	Make a model on Gram Panchayat
	111317610	Make a chart on Functions of Local self government
		Read Ch- Globes and Maps
10	GEOGRAPHY	Make model of The Layers of Atmosphere
		1. Prepare PT-2 Chapters for Final Exam.
11	COMPUTER	2.Read Chapter "Cloud Computing".
		3. Write an article on the topic "Computer Virus" in 100 words in a Punchsheet.
12	G.K.	GK-learn 61-70 and revise the full course of PT-2
		पढ़ाए गए पाठ के शब्दार्थ याद करें।
13	SANSKRIT	पाठशाला तथा सिंहास्यकथा पाठ पढ़कर आएं।
		1 से 20 तक गिनती याद करें।
		Learn word/meanings and questions /answers of chapter 10 and 12
14	14 URDU	Writing practice 10 pages .

HOLIDAY HOMEWORK CLASS VII

S.NO	SUBJECT	HOMEWORK
		1. READ CH- A GIFT OF CHAPPALS and do the word meanings in notebooks.
1	ENGLISH LIT	2. learn the word meanings and summary of Meadow surprises.
		1. Given below is an outline of the story given in the form of phrases. Fill in the
		blanks to create the complete story.
		A rich man had many servants purse with lot of money is stolen from rich
2	ENGLISH LANG	man's drawer rich man files a complaint in the police station all the
		servants called stick of same length given to each servants told that stick
		of the thief will grow by one inch overnight the thief cuts his stick by one inch
		he is easily caught the next day. Do the story on a punch sheet.
		OR Make a Poster on A3 Shoot on "Clobal Warming"
		Make a Poster on A3 Sheet on "Global Warming" Read Chapter दांत की पीड़ा and revise PT-2 Syllabus.
3	HINDI LIT	· · · · · · · · · · · · · · · · · · ·
		निबन्ध लेखन - "वर्षों बाद मिला भारत को ऑस्कर पुरस्कार" दिए गए विषय पर 200 शब्दों के
		निबन्ध लिखें।
		शब्द भंडार - दिए गए सभी शब्द भंडार को अपनी कक्षा पुस्तिका में लिखें ।
4	HINDI LANG	विलोम - 81 से 100 तक अनेकार्थक शब्द -41 से 68 तक
		वाक्यों के लिए एक शब्द - 41 से 67 तक पर्यायवाची शब्द - 35 से 52
		दिए गए मुहावरे 20 से 35 तक अर्थ के साथ वाक्य सहित कक्षा पुस्तिका में लिखें ।
		194 14 36141 20 (133 (14 914 4) (114 414 1 (116(1 4) 41 41 1 (116(1 4) 4) 1 (116(1 4) 4)
		Learn question and answers of the chapters of the Annual Examination.
		Model:- Make the working model of an anemometer and write all the materials
	PHYSICS	required and the procedure required for making an anemometer.
5		Written work: - Complete the written work of chapter Wind ,Storms and Cyclones
		Written work:-
	CHEMISTRY	 Complete the written work of notebook done in the class. Make the project and working model on
		a.Solar drip irrigation working model.
		b.Rainwater Harvesting working model
6		Note - Make a project on the topic alloted to you.
		Learning work:-
		Learn the question answer and exercises of annual examination syllabus.
		Written work:-
		1. Complete the written work of notebook done in class.2. In an A4 sheet ,
		differentiate between different modes of nutrition in animals.
		3. Make working model of the following -
7	BIOLOGY	A.Circulatory system model
'	BIOLOGY	B. Respiratory system model
		C.Human Kidney working model
		Note - Make project on the topic alloted to you.
		Learning work :-
<u></u>		Learn the question answer and exercises of annual examination syllabus.

8	MATHS	Draw front view, side view, top view of any 5 objects of your home.
		On Punch sheet paste picture of object also.
		Draw Chart on Page No. 327 of text book.
		Read Ch - Political Formation in the 18th century, Market Around Us
9	HIST/CIV	Make a model on Brand Advertisement
		Make a chart on The Peshwa Dynasty or On Shivaji
		1. Read ch Weather and Climate, Water and Our Environment
10	GEOGRAPHY	2. Make a model on The Hydrological Cycle or Landforms of Earth
		3. Make a chart on Rock Cycle or Components of Environment
		1. Prepare PT-2 Chapters for Final Exam.
11	COMPUTER	2.Read Chapter "Artificial Intelligence in Real Life".
1 11		3. Write an article on the topic "Robots and their types" in 200 words in a
		Punchsheet.
12	G.K.	revise page no from 62-70 and PT-2 full course
		1. पढ़ाए गए पाठ्यक्रम को दोहराएं।
13	SANSKRIT	2. गतिविधि : दो श्लोक पंचशीट पर लिखें।
		3. गिनतियां 1 से 20 तक संस्कृत में लिखे। (नोट बुक में)
14	URDU	Learn word/meanings and questions /answers of chapter 11 and 12
14	UKDU	Writing practice 10 pages

HOLIDAY HOMEWORK - CLASS- 8		
S. No	SUBJECT	HOMEWORK
1	ENGLISH	On the basis of the clues given below, write a short story in about 150 words. Mr. Chatterjee—rich man—his darling grandson fell sick—engaged best doctors— post operation medicines not available—searched for the drug—result negative— went to Mother Teresa's ashram—Mother looked into his eyes—helpless state— poorest of the poor—Money couldn't help—Mother helped—paid thanks. Read ch- A short monsoon diary And do word meanings in notebook.
2	HINDI	1. सुदामा चरित पाठ पढ़े तथा पढ़ाए गए पाठों को दोहराएं ।
3	MATHS	Q1. Make a cumulative of your PT 1 marks and construct a pie chart showing each subject marks in form of angles. Q2. Make seperate cumulative of PT 1 and PT 2 marks and construct a double bar graph.
4		SCIENCE
4(i)	PHYSICS	Written work:- 1. Complete the written work of notebook done in the class.
4(1)	Titisies	2. Make the activity given on page no. 240 on punch sheet and prepare the working model of dispersion of white light through prism. Learning work:- Learn the question and answers and oral questions and exercises of annual examination syllabus.
4(ii)	CHEMISTRY	Written work:- 1. Complete the written work of notebook done in the class. 2. Do the oral question answers and and exercises in the book. Learn the question and answers and oral questions and exercises of annual examination syllabus. Subject enrichment activity:- write an assignment on punch papers ." Various types of Ro water purifier available and how they make the the water potable" OR Write an assignment on punch papers " sources which releases chlorofluorocarbons , it's effect on ozone layer n harmful consequences"
4(iii)	BIO	 Complete the written work of notebook done in class. In an A4 sheet , draw table on different types of glands and the harmones produced by them. Make working model of the following - Neuron cell-Working model Note - Make project on the topic alloted to you. Learning work :- Learn the question and answer and exercises of annual examination syllabus.
5		SOCIAL STUDIES
5(i)	HISTORY/CIVICS	Read ch Tribals, Dikus and Vision Of Golden Age, Judiciary and Understanding Criminal Justice Make a model on The Parliament House or showing a Tribal Group Make a chart on Judiciary and its functions.
5(ii)	GEOGRAPHY	Read Ch- Industries and Human Resources. Complete the exercises of Industries Revise the Q/Ans of Ch- Agriculture. Make a file on the two case studies of Pittsburgh and Jamshedpur, write the differences and similarities.
6	GK	GK-Revise from pg 62-70 and full course of PT-2
7	COMPUTER	 Prepare PT-2 Chapters for Final Exam. Read Chapter "Cyber Ethics and Security". Write an article on the topic "HTML and its use" in 200 words in a Punchsheet.
8	SANSKRIT	पढ़ाए गए पाठकों के शब्दार्थ और प्रश्न उत्तर याद करें। रचनात्मक गतिविधि-दो श्लोक लिखे पंचशीट पर।
9	URDU	Learn word/meanings and questions /answers of chapter 12 and 15. Writing practice 10 pages

THE LUCKNOW PUBLIC COLLEGIATE, SHARDA NAGAR HOLIDAY HOMEWORK CLASS- IX (2024-25)

SNO	SUBJECT	HOME WORK
1	ENGLISH	Write a descriptive paragraph in about 100-150 words, about the pleasures of watching a television. Take the information given below in the input. combines the pleasures of radio and cinema — most popular means of entertainment — facility of cable network — hundreds of channels — instant and live coverage — entertaining as well as informative TV has darker aspects
		Write a story in 150-200 words with the help of the following outline. Give it a suitable title also. Bunya was a foolish boy, who was an attention seeker. He was a woodcutter and would go deep into the jungle to cut trees. One day he wanted to do an act of mischief. He shouted at the top of his voice, "There's a tiger, tiger, there's a tiger" Read the poems – Dust of Snow and Fire and Ice
2	HINDI	प्रेमचंद के व्यक्तित्व पर एक Activity तैयार करें
_		Lit- 'प्रेमचंद के फटे जूते' पाठ पढ़े । दिए गए प्रश्नोत्तर अभ्यास पुस्तिका में लिखें ।
		प्रश्न 1. 'प्रेमचंद के फटे जूते' पाठ के आधार पर प्रेमचंद की वेशभूषा और रहन-सहन पर प्रकाश डालिए ।
		प्रश्न 2. फोटो का महत्व बताने के लिए लेखक ने कौन-कौन से तर्क दिए हैं ?
		Lang - दिए गए कार्य को व्याकरण पुस्तिका में करें ।
		1. बरसात के दिनों में जलभराव के कारण होने वाली कठिनाइयों को दूर करने के लिए नगर निगम के
		अधिकारी को पत्र लिखिए ।
		2. 'श्रम का महत्व' दिए गए विषय पर अनुच्छेद लिखिए ।
		3. अलंकार (अनुप्रास,यमक, उपमा, रूपक) दोहराएं व दो-दो उदाहरण याद करें ।
3	MATH	Draw all graphs and paste in Mathematics N.B of chapter Statistics
		2. Practice chapter 10, 11 in in your Self Work N.B.
		3. Learn identities& formula
4	PHYSICS	Read the chapter Work & Energy. Solve NCERT questions. Learn & revise all the chapters
5	CHEMISTRY	Learn & revise all the chapters taught in the class
		Chapter - Atoms and molecules
		Write chemical formula of following compounds:Quick lime
		Baking soda
		• Limestone
		2) Write the geometric representation of atomic structure of the first 20 elements. 4.10 page 141 in notebook.
6	BIOLOGY	Do all the MCQ's and case study based Question in the book chapter 'Improvement in Food
		Resources'
		Write the answers for very short answer type Question [c] Page no.103 Que. 1 to 10 on the
7	LUCTO DV	punch sheets
7	HISTORY	Read the chapter – Pastoralists in the Modern World
8	GEOGRAPHY	Read the Ch- Population, Draw a Pie Chart (Fig. 6.2) in Class Work notebook. Do the map work of page no50 in Class Work notebook
9	ECONOMICS	Chapter Food security in India
	LCGITOIVIICS	Read the following parts from the chapter and find their answers.
		1. What is food security? Page 42
		2. Why there is need for food security? pg 42
		3. How is food security affected during calamity? Pg-42
10	IT	4 Who are food insecure? Pg- 44 Digital documentation and spread sheet
11	CIVICS	Read the chapter – Working of the Institutions
	5.7.65	nead the shapter Working of the motitations

The Lucknow Public Collegiate, Sharda Nagar Holiday Home Work 2024-25

Class XI

Subject	Home Work
English	1. You are Harish/Harshita of 12, Seva Nagar, Pune. You want to sell your flat as you are
	shifting to another city for work. Draft a suitable advertisement in not more than 50 words
	to be published in The Pune Times under the classified columns.
	2. You are Ram/Rajani. Draft a classified advertisement, in not more than 50 words, to be
	published in India Times for the sale of a used motor car giving all the necessary details.
	You can be contacted at 12345679.
	3. You are Rahul/Rashmi. As President of the Literary Club of your school you have
	organized an inter-school debate competition on the occasion of the Silver Jubilee celebrations of your school. Write a notice in about 50 words, informing the students of your
	school about the competition.
Chemistry	Learn & revise chapters taught in class
	·
Psychology	Note:- Read Chapter Learning and Answer the following Questions
	1stands for a relatively permanent change in a behavioural
	tendency which occurs as a result of reinforced practice. 2.Learning disabled children have disorders of attention. Explain.
	3. State two points of difference between Primary reinforcer and Secondary reinforcer.
Hindi	प्रश्न -1 रजनी पाठ का संदेश या उद्देश्य स्पष्ट कीजिए।
	· ·
	प्रश्न- 2 'भारत माता' पाठ का सार अपने शब्दों में लिखें।
	प्रश्न -3 दिए गए विषय पर अनुच्छेद लिखिए।
	'प्रथम रेल यात्रा का अनुभव' अपने शब्दों में लिखें।
	प्रश्न 4 जनसंचार के प्रमुख माध्यम लिखिए एवम् प्रश्नोत्तर याद करें।।
Computer	1. Read the chapter Tuple Dictionary
	2. Learn question answers of Tuple, List, String & Manipulation
A	3. Write 10 programs of Tuples – note Book & System
Accountancy	Answer the following questions :- Q1. Distinguish between Provisions and Reserves.
	Q2. A firm bought a machinery for Rs. 14,80,000 on 1st April, 2021. Rs. 1,20,000 is spent
	on its installation. Its useful life is estimated to be of 5 years. Its estimated realizable value
	at the end of the period was estimated at Rs. 80,000. Determine the amount of annual
	Depreciation and rate of Depreciation.
	Q3. Write the difference between direct expenses and indirect expenses
	Q4, What are the four items that can be shown in the Profit and Loss account on debit
	and as well as credit side also .
	Q5 Practice Q no 5 from the chapter Financial Statement
Biology	Read chapter number – 16, 17, 18, 19
	Revise previous taught topics. Learn que/ans, practice diagrams
Business	Do the Half Yearly Q.Paper in fair N.B.
Studies	Read the chapter Internal trade and write answers of the following questions in your
	notebook. O:1) What are Departmental stores?
	Q:1) What are Departmental stores? Q-2) What services are offered by a departmental store?
	Q-3) Give any 2 examples of a Departmental store.
	Q-4) Explain the features of a Departmental store briefly.
	Q-5) Explain the merits and limitations of a Departmental store.
Entp.	Learn the Question and Answers of Chapter Business Arithmetic and Concept of Market

Physical Education	Practice Questions 1-Give any two definitions of physical education. 2-What is the role of physical education to produce an effective citizen for the country? 3-What is the minimum eligibility criteria for getting admission in B.P.Ed course? 4-How many different kinds of courses and career option in physical education are available in India. 5-What is Pranayam? Write down its merits. 6-What is the contribution of yoga in stress management.
Economics	Learn question and answers of chapter 1. Market equilibrium under perfect competition and revise the chapter thoroughly 2. Revise half yearly chapters thoroughly
Maths	Do Ex.3.1 & Ex.3.2 Learn Formula of Trigonometric function and practice all solved examples of the chapters done in class. Practice at least 10 sums daily.
Applied	1. Differentiation, Do Exercise 11.1, 11.2, 11.3, 11.4.
Maths	2. Practice all solved examples of the chapters done in class. Practice at least 10 sums
	daily.
History	Do the map work of Displacing indigenous people
	in your CW copy and learn short Q/Ans given
Political Science	Do the corrections of Half Yearly Question paper
Physics	READ AND REVISE THE QUARTERLY AND HALF YEARLY SYLLABUS AND WRITE THE ANSWERS OF THE FOLLOWING QUESTIONS IN THE NOTEBOOK. Q.1 Derive Equations of uniformly accelerated linear motion by Integration method. Q.2. Derive an expression of excess pressure in a soap bubble. Q.3. What is Projectile Motion? Prove that path of projectile is parabolic. Q.4. State Kepler's law of planetary Motion. Q.5. State and prove Bernoulli's Theorem Q.6. Derive an expression for Elastic potential energy in a stretched wire. Q.7. Derive an expression for Centripetal acceleration. Q.8. Define stress, strain and Hook's law. Q.9. Derive the expression for gravitational potential energy on the surface of earth. Q.10. Derive an expression for the work done in Isothermal process.