

# OM SHANTI SHIKSHA SADAN SR. SEC. SCHOOL

NATHUPUR, (SONIPAT)

CLASS -XI SCIENCE

SUMMER VACATION ASSIGNMENT

ACADEMIC SESSION 2025-26



**Tessy Thomas**

- 1) Tessy Thomas is known as the "Missile Woman of India."
- 2) She was born in April 1963 in Kerala, India.
- 3) She studied engineering and specialized in missile technology.
- 4) She joined DRDO (Defence Research and Development Organisation) in 1988.
- 5) She worked on important missile projects like Agni-III, Agni-IV, and Agni-V.
- 6) She became the first woman to lead a missile project in India.
- 7) Tessy Thomas received many national awards for her work.
- 8) She is a role model for girls who want to become scientists.
- 9) Her husband was in the Indian Navy, and they have one son.
- 10) Tessy Thomas proved that women can achieve great success in science.

**Kindly note holidays shall begin from 1st June, 2025(Saturday) School shall reopen after summer vacation on 1st July, 2025.(Tuesday)**

# ENGLISH

## Literature

Read the following chapters carefully and find out fifteen short answer type questions from each lesson.

**Hornbill:** (i) The Portrait of a Lady  
(ii) We are not Afraid to Die..If We Can All Be Together

**Poetry:** (i) A Photograph  
(ii) The Laburnum Top

**Snapshots:** (i) The Summer of the Beautiful White Horse  
(ii) The Address

## **Creative Writing Assignment:-**

- Write any two of the following:
  - (i) A short story (mystery, fantasy, or real-life inspired)
  - (ii) A descriptive article on “Operation Sindoor”
- A poem on any topic (freedom, dreams, nature, etc.)
- Prepare a speech (300–350 words) on one of the following topics:
  - (i) The Impact of Social Media on Teenagers
  - (ii) Books Are Better Than Screens
  - (iii) Climate Change: A Youth Responsibility(Practice speaking it aloud for confidence.)

## **Word Power – Vocabulary Building**

Learn 20 new words, For each word: Write the meaning, part of speech, and use it in a sentence

Optional: Add a small illustration or a synonyms chart

**Writing work:** Do one hand writing daily in cursive form.

**Note:** Do all this work in separate fair notebook, Homework shall be checked on first day after summer vacation.

हिंदी

पाठ्य पुस्तक:- अरोह (भाग -2)

काव्य खंड अध्याय:- एक कबीर, अध्याय 2 मीरागद्य खंड :

अध्याय 1:- नमक का दरोगा

अध्याय 2:- मियां नसीरुद्दीन

उपरोक्त अध्यायों का अध्ययन करते हुए कुल 40 बहुविकल्पीय प्रश्न उत्तर बनाकर लाए और अभ्यास के सभी प्रश्नों को याद करें

1. वितान पाठ्य पुस्तक के पहले दो पाठ गायिकाओं में बेजोड़ लता मंगेशकर और राजस्थान के रजत बूंदे पाठ को पढ़ाते हुए सभी प्रश्नों के प्रश्न उत्तर याद करें।
2. निम्नलिखित में से किसी एक विषय पर चित्र सहित जीवनी लिखें। हरिवंश राय बच्चन , मुंशी प्रेमचंद, कबीर दास।
3. जनसंचार के साधनों से संबंधित एक मॉडल चार्ट तैयार करें।
4. अलंकार या रस विषय पर एक प्रस्तुति तैयार करें।
5. अलंकार या रस विषय पर एक प्रस्तुति तैयार करें।
6. रेशम अवकाश आपने कैसे बिताया विषय पर एक अनुच्छेद लिखिए।
7. श्रृंगार रस या वीर रस में से किसी एक रस पर स्वयं रचित कविता कांटेक्ट कर गायन शैली में तैयार करें।
8. हस्तलेख सुधार हेतु प्रतिदिन एक सुलेख लिखें।

## MATHS

1. Complete your practical file with Activities number 1,2,3,5,8,,10,12,14,17,18,20,22,24,28,31.
2. Do practice extra questions based on chapters. Sets ,Relations and Functions , Arithmetic Progression and Geometric Progressions
3. Make a chart of Basic and formulas of following chapters.
4. **Do prepare detailed notes on any two of given three**

(A) Career Connections

### **Research Task: Careers That Use Maths**

Pick 5 careers (e.g., architect, data scientist, pilot).

Explain how math is used in each.

Present as a short booklet or slide deck.

### **(B) Visualizing Statistics Through Infographics**

Description: Use data (like school survey results) to create charts and graphs.

Concepts Covered: Mean, median, mode, bar/pie charts.

Creative Element: Use tools like Canva or hand-drawn visual

### 3. History of Mathematics Timeline

Description: Create a timeline featuring great mathematicians and their discoveries (like Aryabhata, Euclid, Ramanujan).

Concepts Covered: Historical developments, major theorems.

Creative Element: Illustrated poster, flipbook, or interactive PowerPoint.

## CHEMISTRY

### Revise

Chapter 1 (some basic concepts of chemistry) and solve its numericals.

### Project Work –

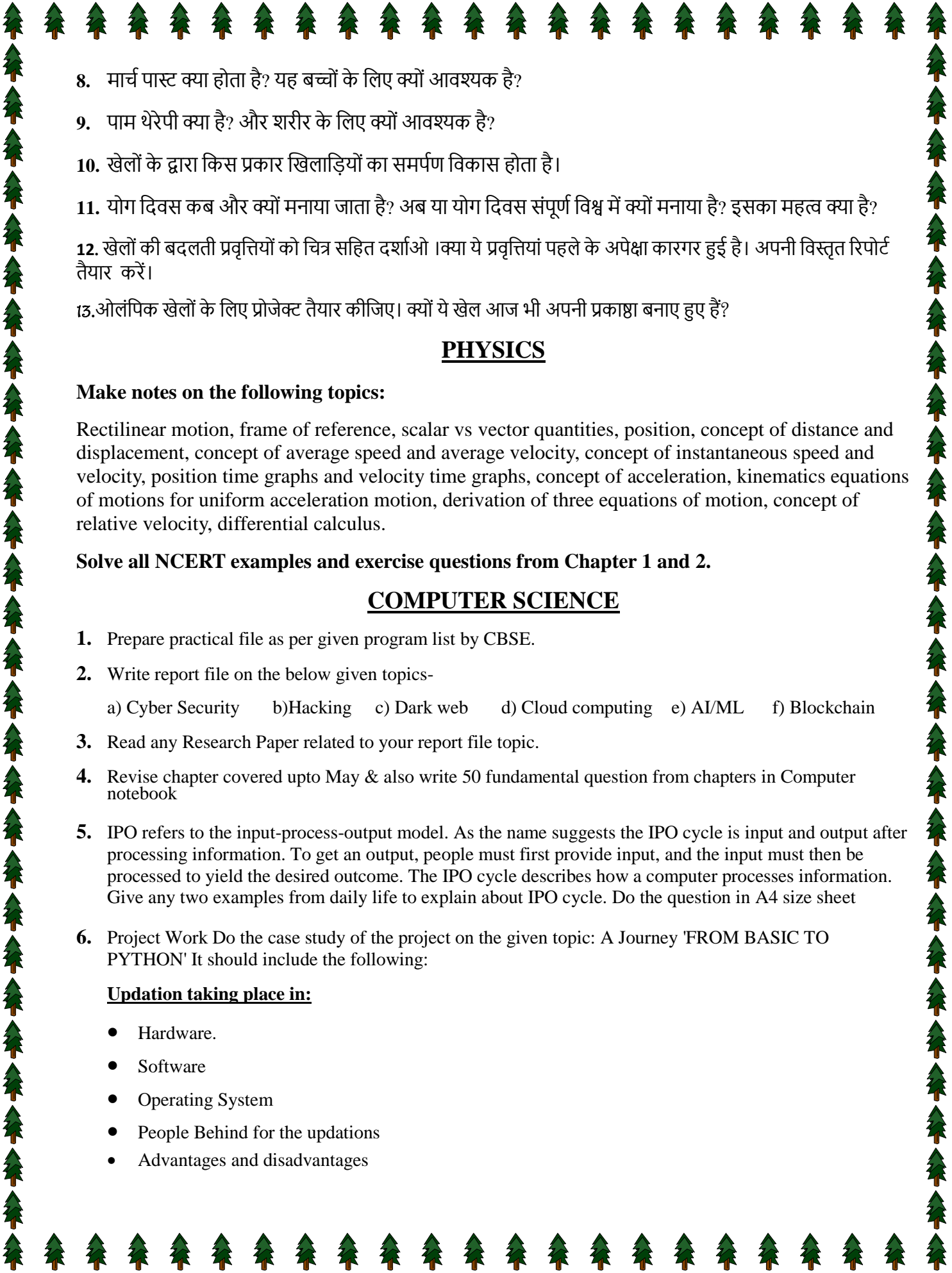
- Submit investigatory report of assigned topic containing at least 18 pages. Also make one chart and one model related to your assigned project.
- Complete your assigned experiment in practical file.
- Paste pictures of 5 renowned Indian scientists and write about their inventions on A4 coloured sheet. Each sheet should carry the information regarding one scientist only.

## BIOLOGY

1. Prepare a project file on any topic of your choice.
2. Revise chapter 1,2 and 3 frame 10 questions from each of them.
3. Prepare a chart on classification of the plant kingdom.
4. Complete your practical files.

## PHYSICAL EDUCATION

1. 20 तरह के आसनों का चित्र सहित लाभ और विधियां लिखें
2. नीरज चोपड़ा का जीवन परिचय का वर्णन करो और उसकी उपलब्धियों का विस्तार से वर्णन करो।
3. खेलो इंडिया प्रोग्राम तथा फिट इंडिया प्रोग्राम पर संक्षिप्त नोट लिखो
4. कबड्डी और बास्केटबॉल के मैदान का चित्र चार्ट पर बनाओ
5. 5. खेलो इंडिया खेलो कार्यक्रम का आरंभ कब और क्यों किया विस्तृत रिपोर्ट तैयार करें।
6. फिट इंडिया कार्यक्रम किसने और क्यों आरंभ किया।
7. फर्स्ट एड क्या है? या प्रत्येक घर में क्यों अवश्य है? फर्स्ट एड बॉक्स बनाकर दिखाओ।

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8. मार्च पास्ट क्या होता है? यह बच्चों के लिए क्यों आवश्यक है?
  9. पाम थेरेपी क्या है? और शरीर के लिए क्यों आवश्यक है?
  10. खेलों के द्वारा किस प्रकार खिलाड़ियों का समर्पण विकास होता है।
  11. योग दिवस कब और क्यों मनाया जाता है? अब या योग दिवस संपूर्ण विश्व में क्यों मनाया है? इसका महत्व क्या है?
  12. खेलों की बदलती प्रवृत्तियों को चित्र सहित दर्शाओ। क्या ये प्रवृत्तियां पहले के अपेक्षा कारगर हुई हैं। अपनी विस्तृत रिपोर्ट तैयार करें।
  13. ओलंपिक खेलों के लिए प्रोजेक्ट तैयार कीजिए। क्यों ये खेल आज भी अपनी प्रकाशा बनाए हुए हैं?

## **PHYSICS**

**Make notes on the following topics:**

Rectilinear motion, frame of reference, scalar vs vector quantities, position, concept of distance and displacement, concept of average speed and average velocity, concept of instantaneous speed and velocity, position time graphs and velocity time graphs, concept of acceleration, kinematics equations of motions for uniform acceleration motion, derivation of three equations of motion, concept of relative velocity, differential calculus.

**Solve all NCERT examples and exercise questions from Chapter 1 and 2.**

## **COMPUTER SCIENCE**

1. Prepare practical file as per given program list by CBSE.
2. Write report file on the below given topics-  
a) Cyber Security    b) Hacking    c) Dark web    d) Cloud computing    e) AI/ML    f) Blockchain
3. Read any Research Paper related to your report file topic.
4. Revise chapter covered upto May & also write 50 fundamental question from chapters in Computer notebook
5. IPO refers to the input-process-output model. As the name suggests the IPO cycle is input and output after processing information. To get an output, people must first provide input, and the input must then be processed to yield the desired outcome. The IPO cycle describes how a computer processes information. Give any two examples from daily life to explain about IPO cycle. Do the question in A4 size sheet
6. Project Work Do the case study of the project on the given topic: A Journey 'FROM BASIC TO PYTHON' It should include the following:

### **Updation taking place in:**

- Hardware.
- Software
- Operating System
- People Behind for the updations
- Advantages and disadvantages

