



**D.M. PUBLIC SCHOOL**  
**PARSIA, PUTKI, DHANBAD**  
**SUMMER VACATION ASSIGNMENTS(2024-25)**

**CLASS XI SCIENCE**

**BIOLOGY**

1. Grow fungus on a piece of bread to show the hyphae and mycellium growth and formation of spore under microscope.
2. Write biological names of different animal and plant species given in NCERT text book. Learn it.
3. Make a model of any of the organelles of cell and write about its functions. A group discussion will be there after vacation on the basis of your model and Role play on the basis of same organelles.

**HINDI**

1. कबीर दास जी का जीवन परिचय लिखें ।
2. प्रेमचंदजी का जीवन परिचय लिखे ।
3. संचार क्या है? इसके महत्व को लिखें।
4. किसी सामाजिक कुरीति का वर्णन करते हुए दैनिक समाचार पत्र के संपादक के नाम पत्र लिखें।
5. लगभग 300 शब्दों में निबंध लिखें -  
(क) मेरा भारत महान  
(ख) लोकतंत्र

**PHYSICS**

1. State & derive parallelogram law of vector addition.
2. State & prove triangle law of vector addition.

3. An Aeroplane flying at a speed of 20m/s towards north, it took a turn 60 degree anticlockwise from east with the same speed.  
Find the change in velocity .

### CHEMISTRY

1. How many moles of NaOH are contained in 27 ml of 0.15 M?
2. Calculate the number of atoms in each of the following:
  - a - 52 moles of He
  - b - 52 u of He
3. The solution of glucose (molar mass = 180 g mol) in water is labelled as 10% by mass. What would be the molality and molarity of the solution? (Density of solution 1.2 g mL),
4. When 800 mL of 0.5 M nitric acid is heated in a beaker, its volume is reduced to half and 11.5 g of nitric acid is evaporated. What is the molarity of the final solution?
5. Which of the following has a larger number of atoms: 1 gm. of K or 1 gm. of Cl<sub>2</sub> ?
5. The empirical formula and molecular mass of a compound are CH<sub>2</sub>O and 120g respectively. What will be the molecular formula of the compounds?
7. Which of these solutions have same molar concentration?
  - 1) 49g H<sub>2</sub>SO<sub>4</sub> per litre of solution
  - 2) 49g H<sub>3</sub>PO<sub>4</sub> per litre of solution
  - 3) 73g HCl per litre of solution.
  - 4) 63g HNO<sub>3</sub> per litre of solution?
8. What is meant by one gram atom of silver?

### ENGLISH

#### Chapter-The Portrait of A Lady

#### Short Questions-(40-50 words)

1. Describe narrator's Grand father.
2. What was the turning point in narrator's life?
3. Why did the grand mother disapprove what was taught in the city school?
4. How did the grand mother celebrate the home coming of the narrator?

#### Long Questions-(120-150 words)

1. Sketch the character of the grand mother.
2. Write a short paragraph on Khushwant Singh.



Chapter-Summer of the Beautiful White Horse

**Short Questions:**(40-50 words)

- 1.Describe Garoghlanian tribe.
- 2.Mourad was the craziest member of the tribe.Elaborate.
- 3."One can be the father of his son's flesh but can't be the father of his spirit.Explain.
- 4.Who was John Byro?How did he react when found his horse with Aram and Mourad?

**Long Question**(120-150words)

- 1.Honesty should be the prime principle of life.Elaborate with the reference to the chapter "Summer of the Beautiful White Horse "

**Writing skill:**

- 1.Write a paragraph on how you spent your summer vacation.
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**MATHS**

**Chapter. SETS**

Solve all exercise Questions from NCERT and R.S. Agarwal.

**Chapter. COMPLEX NUMBER and QUADRATIC EQUATIONS**


1. Solve all example Questions and Exercise Questions from NCERT .
2. Solve first two exercise Questions from R.S. Agarwal.

**PHYSICAL EDUCATION**

- Q1. What is psychological development?
- Q2. Define physical education as given by the central advisory board of physical education and regulation government of India
- Q3. Which qualification are required by physical instructors to teach in schools ?
- Q4. Write a short note on playing surface.
- Q5. Discuss the short and long term courses available in field of physical education in India by giving example.
- Q6. Explain the major objective of the khelo India programme.
- Q7. Describe about FIT India Campaign.
- Q8. Explain the technological advancement in sports.

**INFORMATION PRACTICES**

- Q1. Summer Tech Challenge: The Click venture!



Calling all creative storytellers and tech enthusiasts! This summer, embark on a project that blends your love for narratives with the power of technology. It's time to create your very own Click venture!

What's a Click venture?

A Click venture is a choose-your-own-adventure story presented in a digital format. Imagine a story where YOU, the reader, make choices that determine the plot's direction.

Here's the challenge:

Pick your Theme: Choose a genre that excites you - fantasy, mystery, sci-fi, or even a hilarious comedy adventure!

Plan Your Path: Sketch out a basic flowchart of your story. Each decision point will lead to two or more choices, directing the reader to different parts of the narrative.

Get Crafty!:

Here's the creative part! You don't need coding!

Use a presentation tool like Google Slides or Microsoft PowerPoint.

Each slide will represent a scene in your Click venture.

Add captivating visuals like pictures, illustrations, or even simple drawings to bring your story to life.

On each slide, present the reader with two choices that will take them to different parts of the story. This can be done with hyperlinks or clear instructions to jump to specific slides based on their choice.

Bonus points for Creativity:

Add sound effects or background music for an immersive experience.

Include hidden Easter Eggs in your story - secret pathways or funny jokes for those who explore deeper.

Design a title page and character profiles to enhance your Click venture.

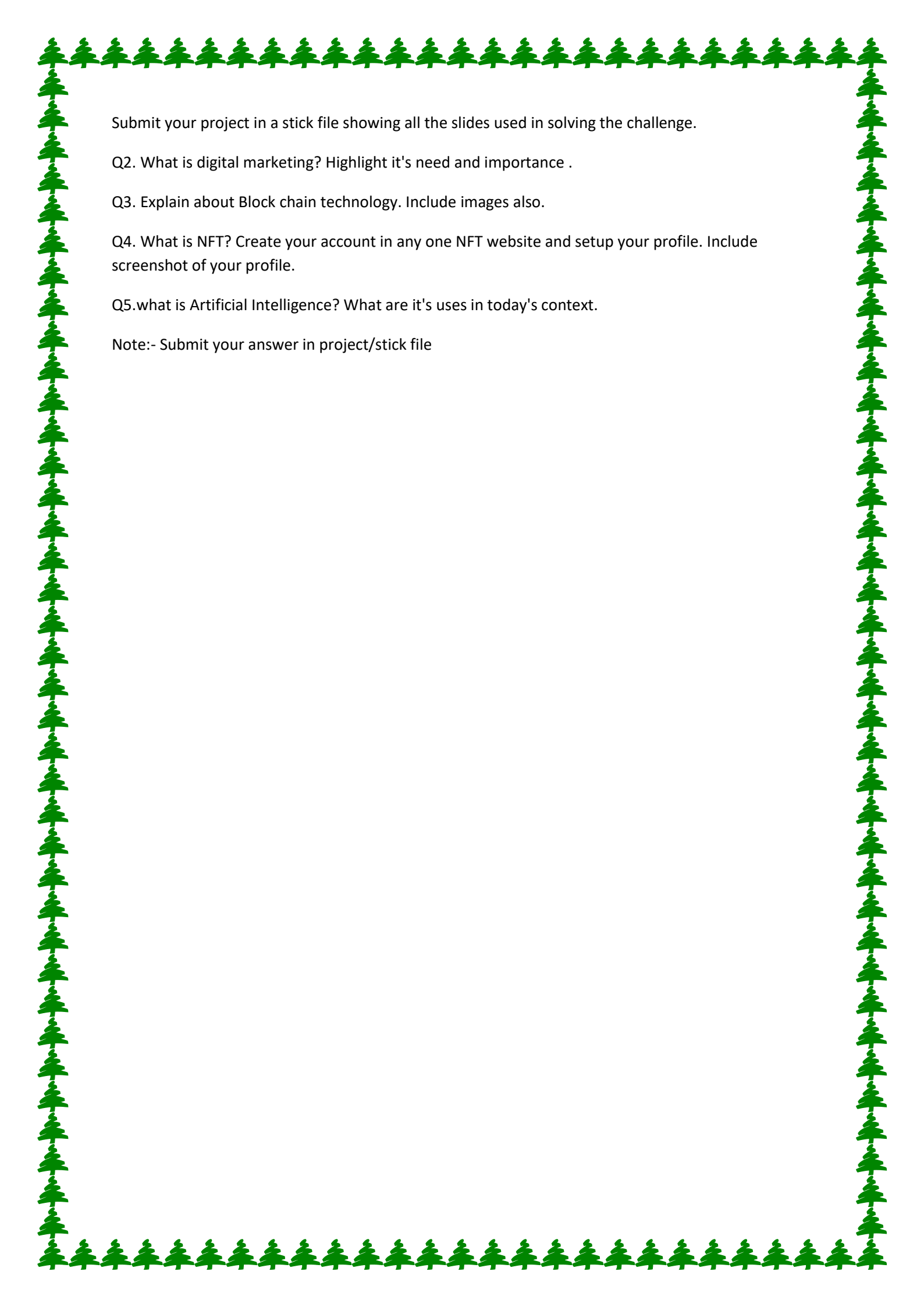
Showcase your Click venture:

Share your Click venture with friends and family! Get their feedback and see which paths they choose.

Present it to your computer science class - explain what makes a good Click venture and share the design process.

Remember: Keep it simple, fun, and let your imagination run wild!

This project is a fantastic way to explore storytelling, decision -making, and even basic presentation skills, all with a fun tech twist. Happy Click venturing!



Submit your project in a stick file showing all the slides used in solving the challenge.

Q2. What is digital marketing? Highlight it's need and importance .

Q3. Explain about Block chain technology. Include images also.

Q4. What is NFT? Create your account in any one NFT website and setup your profile. Include screenshot of your profile.

Q5.what is Artificial Intelligence? What are it's uses in today's context.

Note:- Submit your answer in project/stick file