RANIGANJ LIONS JDM CHANANI DAV PUBLIC SCHOOL

HOLIDAY HOMEWORK

CLASS: IX

SESSION: 2025-26

SUBJECT	QUESTIONS
ENGLISH	(Note: All the answers are to be written in your English classwork notebook.) 1. Answer the following question in about 150 words. The fiction "How I Taught My Grandmother to Read" deserves appreciation for Sudha Murthy 's effort to throw light on the latest scenario of female literacy and education in India. Express your views regarding the need of women education in India with reference to the context. 2. Answer the following question in about 150 words. "The Brook" is a reflection of Tennyson's fascination with nature. How do the sensory images actively engage the readers to enjoy the beauty of nature as reflected in the poem " The Brook"? 3. A. Fill in the blanks with appropriate option from those given in the brackets. No matter how old you (i) _____ (were/are/will be), drink at least a glass of milk every day if you (ii) _____ (are wanting/wants/want) to sharpen your mental abilities.A new study (iii) _____(have claimed/has claimed/has been claiming) that drinking a glass of milk daily positively impacts one's brain power. B. Report the dialogues to complete the paragraph that follows. Mother:Tiasa,don't pull the cat's tail. It'll hurt the cat. Tiasa: Mummy, I am not doing anything. I'm simply holding the cat's tail. Mother asked her daughter Tiasa not to pull the cat's tail because (i) _____. Tiasa wittingly told her mother (ii)_____. She was simply holding the cat's tail. 4. Project: Movie Time

	Names of the Movies: 1.777 Charlie 2. Eight Below 3. Hachi: A Dog's Tale Choose any of the above-mentioned movies and write a review based on it. (120 words) The project may be made in classwork notebook. You may use sketches and colour pencils, if required.
HINDI	**1. निम्नलिखित उचित उपसर्गों को उचित मूल शब्दों के साथ जोड़कर नए शब्दों का निर्माण कीजिए।** परा, सह, स्व, प्र, अति, अनु, वि → हार / अंत / शेष / क्रम / राज्य / पाठी / जय / देश / चार / अधिक **2. हीरा और मोती की चार-चार चारित्रिक विशेषताओं को विस्तारपूर्वक अपने शब्दों में लिखिए।** **3. तिब्बत की यात्रा के दौरान राहुल सांकृत्यायन जी को जिन कठिन परिस्थिति का सामना करना पड़ा, उनका वर्णन अपने शब्दों में कीजिए। आप यदि उनके स्थान पर होते तो कठिन परिस्थिति का सामना किस प्रकार करते?** **4. नीचे दिए गए चित्रों के पात्रों तथा विषय को पहचानकर 100-120 शब्दों में संवाद लिखिए।**

	5. गतिविधि - बीस प्रत्यय शब्दों का एक शब्द-चक्र A-4 साइज़ पेपर पर तैयार कीजिए। उनमें से किन्हीं पाँच शब्दों का एक वाक्य-पेड़ का निर्माण कीजिए। उन पाँच शब्दों से संबंधित चित्र बनाइए अथवा चिपकाइए।
	नोट : • प्रश्न एक से लेकर चार तक के उत्तर अपनी हिंदी की उत्तर-पुस्तिका में लिखिए।
BENGALI	নীচের প্রশ্নগুলির যথাযথ উত্তর দাও। ১) সভ্যতার 'তৃষ্ণা -ক্ষুধা'বলতে কবি কী বুঝিয়েছেন? ২) অপু কার কাছে মহাভারতের গল্প শুনত? মহাভারতের গল্প শুনে অপুর কী ধারণা হয়েছিল? ৩) অর্জুনের রথের নাম কী? ৪) চিনিবাস ময়রা কেন দুর্গাদের বাড়ির সামনে দাঁড়াত না? ৫) 'তখন আর ফটিকের সহ্য হইল না।'- ফটিকের কী কেন সহ্য হল না? ৬) ব্যাখ্যা করো- "উঠে কত হলাহল ,উঠে কত সুধা" ৭) "অমনি মায়ের কাছে যাইবার জন্য মন আকুল হইয়া পড়িত"- কার মন কেন আকুল হত? ৮) সন্ধি করো। অভি + উদয় গুরু + ই বিত্ত + ঔদার্য সার + অঙ্গ ৯) সন্ধি বিচ্ছেদ করো। গবাদি সীমন্ত নয়ন জলৌকা ১০) Project Work 'ছুটি' গল্পের কমিক স্ট্রিপ প্রস্তুত করো।

SANSKRIT	**1. अधोलिखितं गद्यांशं पठित्वा प्रदत्तप्रश्नानाम् उत्तराणि संस्कृतेन लिखत-** किन्तु बालस्य अत्र रक्षकः नास्ति तत् किं करोमि? भवतु, चिरकालपालितम् इमं पुत्रनिर्विशेषं नकुलं बालरक्षायां व्यवस्थाप्य गच्छामि। तथा कृत्वा गतः। ततस्तेन नकुलेन बालसमीपम् उपसर्पन् कृष्णसर्पः दृष्टः। स तं व्यापाद्य खण्डशः कृतवान् । अत्रान्तरे ब्राह्मणोऽपि श्राद्धं गृहीत्वा गृहम् उपावृतः। ब्राह्मणं दृष्ट्वा नकुलः रक्त-विलिस-मुख-पादः तस्य चरणयोः अलुठत् । विप्रः तथाविधं तं दृष्ट्वा बालकोऽनेन खादितः इति अवधार्य कोपात् नकुलं व्यापादितवान्। **I. एकपदेन उत्तरत-** क) कम् दृष्ट्वा नकुलः अलुठत्? ख) केन बालसमीपम् उपसर्पन् कृष्णसर्पः दृष्टः? **II. पूर्णवाक्येन उत्तरत-** क) ब्राह्मणः किम् कृत्वा गृहम् उपावृतः? ख) कीदृशः नकुलः ब्राह्मणस्य चरणयोः अलुठत्? **III. निर्देशानुसारम् उत्तरत-** क) "बालस्य अत्र रक्षकः नास्ति" - अस्मिन् वाक्ये क्रियापदम् किम्? ख) "तस्य चरणयोः अलुठत्" - अस्मिन् वाक्ये चरणयोः पदे का विभक्तिः? **2. अधोलिखित रेखांकितपदानां सन्धिविच्छेदं कुरुत :-** i) फलोद्रमैः **नम्रास्तरवः** भवन्ति।

ii) **रामोऽपि** वनम् अगच्छत्।

iii) **तदाकर्ण्य** बालकः भावितः।

3. निर्देशानुसारम् उत्तरत-

क) उ, ऊ, प, फ, ध, ब, म वर्णेषु कः वर्णः ओष्ठौ न अस्ति?

ख) रामः इति पदे कस्य वर्णस्य उच्चारणस्थानम् मूर्धा अस्ति?

4. भवान् सोहनः छात्रावासे वसति, भवान् च स्वदिनचर्याविषये पितरं प्रति पत्रं लिखति । मञ्जूषायाः उचितपदानि चित्वा रिक्तस्थानानि पूरयतु-

उत्तरपुस्तिकायां च पुनः लिखतु।

छात्रनिवासतः

दिनाङ्कः ------------------

पूजनीयः (i)-------------------

अत्र कुशलं तत्रास्तु। मया भवतः पत्रं प्रासम् । मम अर्धवार्षिक परीक्षापरिणामः अतिशोभनः अस्ति।   (ii)---------------- तु शतम् अङ्काः एव प्रासाः । अहम् (iii) ------------------ पञ्चवादने उत्थाय पठामि। ततः स्सवादने नित्यकर्म कृत्वा (iv) ------------------ स्मरामि । सायम् उदयाने भ्रमणाय अपि गच्छामि। रात्रौ भोजनस्य पश्चात् (v)------------------ द्वादश-वादनपर्यन्तं पठामि। अहम् अत्र (vi) ------------------- अस्मि । कोऽपि (vii) -------------------- मा कुरु, वार्षिकपरीक्षायाम् अपि शोभनैः अङ्कैः (viii) ----------------भविष्यामि इति (ix) ------------------- अस्ति । पूजनीयायै मात्रे नमः । अनुजाय स्नेहः ।
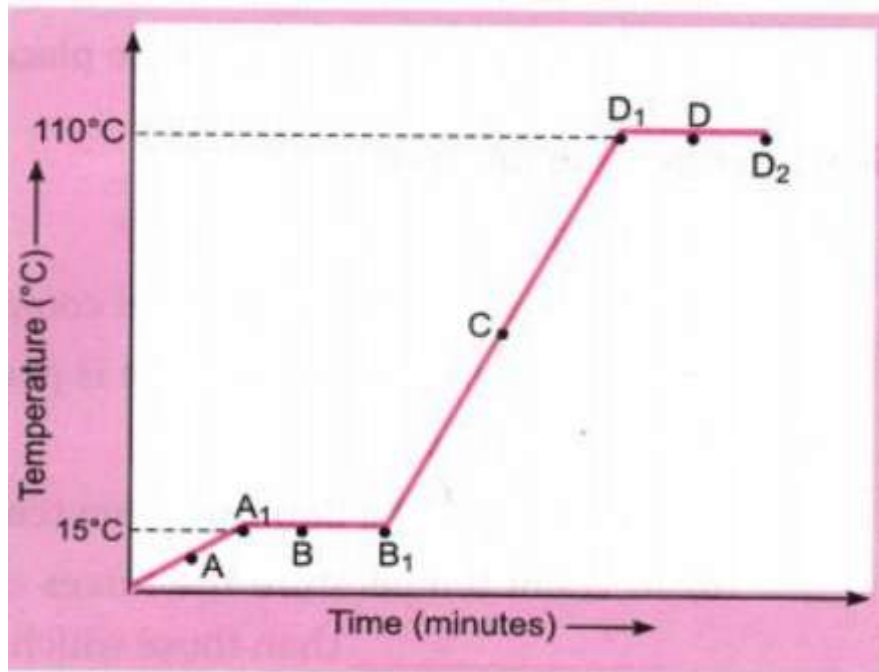
भवदीयः प्रियपुत्रः (x)------------

मञ्जुषा- (पितृमहाभागः, नववादनतः, संस्कृतविषये, ईश्वरम्, आशा, सोहनः, चिन्ता, प्रातःकाले, स्वस्थः, उत्तीर्णः)

	5. गतिविधिः- एकं चित्रं रचयित्वा तस्य विषये पञ्च वाक्यानि संस्कृतभाषायां लिखत। (**On the A4 size paper)** **NOTE-** ग्रीष्मावकाशस्य सर्वाणि उत्तराणि संस्कृत-अभ्यासपुस्तिकायाम् एव कुर्वन्तु।
MATHEMATICS	**PROJECT WORK:-** Represent square root of 10 by constructing a **SQUARE ROOT SPIRAL.** **ACTIVITY:-** Draw a **MIND MAP** on Polynomials. **SOLVE THE FOLLOWING QUESTIONS:** **1. Express the following as a rational number in p/q form:** **(i) 1.272727...** **(ii) 0.818181...** **2. Simplify:** $\dfrac{\sqrt{5} + \sqrt{3}}{\sqrt{80} + \sqrt{48} - \sqrt{45} - \sqrt{27}}$ **3. The factors of $5x^2 - 18x + 9$ are $(ax + b)$ and $(x + b)$. Find the values of a and b.** **4. Factorise: $x^3 + 6x^2 + 11x + 6$**

	PHYSICS:
	A particle starts from rest and moves with a uniform acceleration of $5m/S^2$ for 10s and then it moves with a constant velocity for 4s. Later it slows down and comes to rest in 5s.
	   Answer the following questions
	   a) Draw the corresponding acceleration-time graph.
	   b) Find the maximum velocity attended by the body.
	   c) Calculate the distance travelled during this period of positive acceleration.
	   d) Calculate distance travelled when the body was moving with constant velocity.

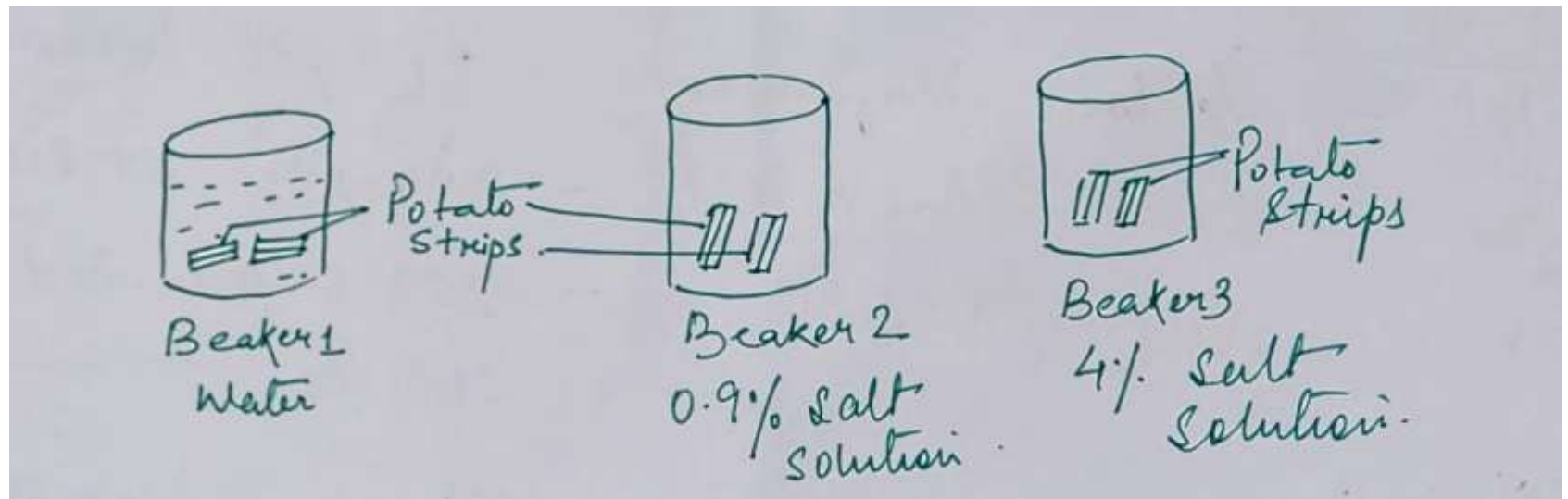| **SCIENCE**	**CHEMISTRY:** The temperature-time graph given alongside shows the heating curve for pure wax.

From the graph answer the following:
(a) What is the physical state of the substance at the points A, B, C and D?
(b) Point out the melting point of the substance from the graph.
(c)Point out the boiling point of the substance from the graph.
(d) Which portions of the graph indicate that change of state is taking place?
(e) Name the terms used for heat absorbed during change of states involved in the above process.

BIOLOGY:

1. Shruti conducts an experiment to know how plant cells lose or gain water through osmosis. She cuts 5 cm potato strips. She puts two potato strips in each of the following beakers.
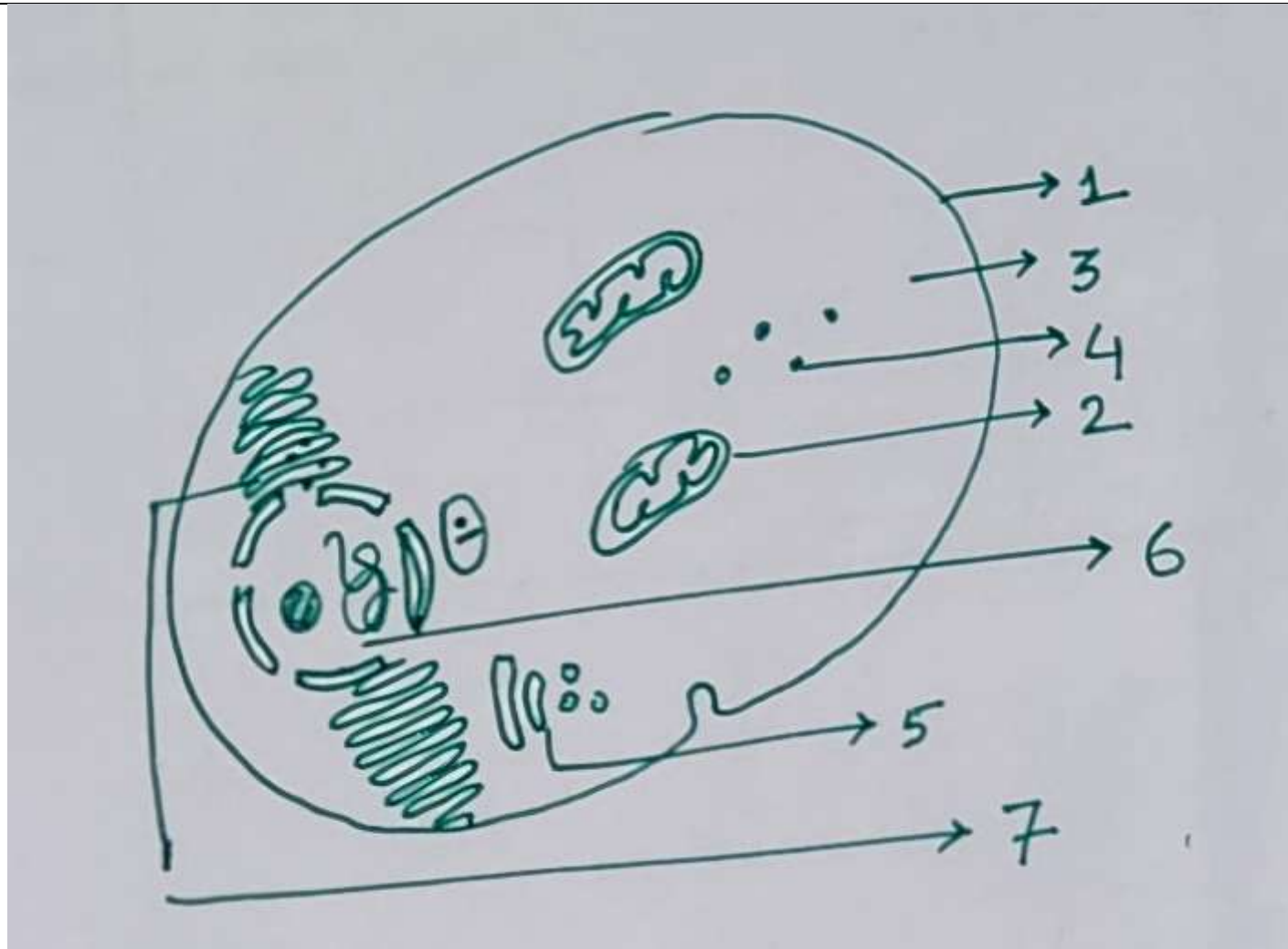

a)State your observation in each case and justify your answer

b)Differentiate between diffusion and osmosis

c)What will be your observation if potato strips are replaced with RBC cells in beaker 1 and 2?

2. With reference to the diagram below answer the following question

a)Label the parts parts labelled 1 to 6

b)State the functions of part labelled 2 and 7.

c)What is the importance of the part labelled 1 and 5?

3. Illustrate only a plant cell under electron microscope. How is it different from an animal cell?

	B. Science Activity : Experiment 1: Preparation of stained temporary mounts of onion peels & to record observations and draw their labeled diagrams. Experiment 2: Preparation of stained temporary mounts of cheek cells & to record observations and draw their labeled diagrams. To write the same use the following format in the practical notebook: 1. Aim 2. Materials Required 3. Procedure 4. Observation 5. Inference Note - Use DAV CAE Practical copy for completion of the practicals.

SOCIAL SCIENCE	**HISTORY & CIVICS:-** Q.1. **Read this excerpt from the *Declaration of the Rights of Man and Citizen*:**
	   "Men are born and remain free and equal in rights."
	  Explain how this statement challenged the existing social and political order in France.
	
	  Q.2 Compare the **Old Regime** (before 1789) with the society of France aimed to create after the revolution. How did the goals of liberty, equality, and fraternity change the structure of society?
	
	Q.3. Do you think the Reign of Terror was justified in the name of protecting the revolution? Give reasons for your answer.
	
	Q.4. Do you think the Reign of Terror was justified in the name of protecting the revolution? Give reasons for your answer.

	GEOGRAPHY: 1. "Opening of Suez Canal has benefited India immensely." Justify this statement.
	    2. Why do the days and nights are almost equal duration at Kanyakumari but not in Kashmir?
	    3. Mention the latitudinal and longitudinal extensions of India. What is its implication ?
	    4. Explain four broad divisions of the Northern Plain on the basis of its relief features .

	ECONOMICS: In your Economics notebook, write the answers of the questions given below. 1.Read the passage given below and answer the following.

Case Study:

In Palampur, most of the land is already cultivated. To grow more crops, the farmers use modern farming methods such as HYV seeds, chemical fertilizers, and irrigation. However, these practices have led to soil degradation and reduced fertility over time.

a. Why do farmers in Palampur use modern farming methods?

b. What are the consequences of overusing chemical fertilizers?

c. Suggest one sustainable alternative to chemical fertilizers.

Two farmers in Palampur own the same amount of land. One uses traditional methods, and the other uses modern farming techniques. After harvest, one farmer gets much higher yield.

a. Who is likely to get the higher yield?

b. Mention two reasons for the difference in their output.

c. Identify one environmental risk related to modern farming.

3.The government plans to introduce training programs for using organic farming methods in Palampur.

Do you think this is a good idea? Justify your answer with at least two reasons.

4.Ramu is a landless labourer in Palampur. He gets work only for a few months in a year and earns low wages.

Suggest any two ways to improve his living conditions.

SOCIAL SCIENE PROJECT

Prepare a Wall Magazine on the Disaster Management as per the groups divided in class:

Group A: Earthquakes in India

Group B: Floods: A Rising Threat

Group C: Cyclones and Coastal Safety

Group D: Droughts and Water Scarcity

Group E: Climate Change and Disasters

1.Materials Required: Two fullscape chart paper

Printouts or handwritten articles

Sketches, coloured markers, glue, scissors

Photos or magazine cuttings

2.Header Section (Top Center)

Main Title in bold, creative font.

A short slogan relevant to your topic like "Disasters don't wait – plan today!"

3.Left Column –Definition and Causes

4.Center Section – Effects of the disaster

	5.Right Column – Mitigation Strategies 6.Lower Left Hand Side-Case Studies 7.Lower Right Hand Side- Visual Representations linke Graphs, Maps showing Prone areas Also each group must submit a detailed report of contribution of each member in the group on a seperate A4size paper. Students will collect materials and do some research work as a Holiday Homework. Please follow the detailed information given in class for successful completion of the activity. **Wall Magazine work is to be completed only on school during class periods.**

ARTIFICIAL INTELLIGENCE	**1.Given below are some application / situations. Identify which of these use or are based on AI?**
	
	a) Self-driving Cars. b)Amazon Alexa c)Smart refrigerators d)Predictive medical assistants
	
	2. _____is a branch of artificial intelligence that enables computers to learn from data by themselves.
	
	i. Deep Learning ii. Computer Vision iii. Natural Learning iv. Machine Learning
	
	3. What is data acquisition also known as ?
	
	i. Data collection ii.Data processing iii.Data mining iv Data analysis
	
	**4.Assertion: (A): Natural Language Generation is a component of NLP which produce meaningful phrases and sentences
	                      in the form of natural language.**
	 **Reason (R): NLP is the domain of AI which deals with natural languages by deciding correct
	                  words, linking into meaningful phrases, forming sentences etc.**
	
	 (a) Both A and R are true, and R is the correct explanation of A.
	(b) Both A and R are true, and R is not the correct explanation of A.
	(c) A is true, but R is false.
	(d) A is false, but R is true.
	
	5. Assertion: "Artificial Intelligence (AI) is the simulation of human intelligence processes by machines, especially computer systems."
	
	Reasoning: AI systems mimic human intelligence. AI algorithms, are designed to process data, learn from it, and make decisions or predictions. These algorithms mimic human cognitive functions such as learning, reasoning, problem-solving, perception, and language understanding.
	i. Both A and R are correct, and R is the correct explanation of A.

ii. Both A and R are correct, and R is not the correct explanation of A.
iii. A is correct, but R is not correct.
iv. A is not correct, but R is correct.

6. Mr.Dinesh Patel, a Computer Science teacher at Kendriya Vidyalaya, has developed an educational humanoid namely Shalu, which can converse in 47 languages. Which AI technology helps Shalu, the rebot, converse with us humans?

a) NLP   b) Computer Vision   c) ML   d) Data Science

7.While designing a surveillance system for the premises where a costly diamond was to be kept for exhibition, we do the following tasks.
i. Get photographs of all the authorized people.
ii. Get photographs of all the unauthorized people.
iii. Get photographs of the premises.
iv. Get photographs of all the visitors.

8. An application lets you search what you see, get things done faster and understand the world around you – using just your camera or a photo. Which domain does this app belong to?

i. Natural Language Processing
ii. Data Sciences
iii. Computer Vision
iv. Artificial Language Processing

9.Describe the role of data acquisition and data exploration in the AI project cycle.

10.Explain the concept of Internet of Things (IoT) and its significance in AI.