

# SHAMBHU DAYAL GLOBAL SCHOOL

## HOLIDAY HOMEWORK

### CLASS- XI-A

#### PPT TOPICS SUBJECT WISE

<b>Student's Name</b>	<b>English</b>	<b>CHEMISTRY</b>	<b>PHYSICAL EDUCATION</b>	<b>PHYSICS + PROJECT (with project report)</b>	<b>MATHS/BIOLOGY</b>
<b>ABHISHEK BISWAS</b>	Importance of Kindness.	Laws of chemical combinations	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>SUTRANETI</b> .	Prepare a PowerPoint presentation on Need for measurement: Units of measurement; systems of units; Project: Working model based on any scientific/electrical principle	
<b>ABHISHEK JHA</b>	Why books are better than their movies?	Molarity and Molality	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>STHAL-BASTI</b> .	Prepare a PowerPoint presentation on fundamental and derived units. Project: Working model based on any scientific/electrical principle	

<b>ADITYA SHARMA</b>	Women make better presidents/prime ministers.	<b>Mole fraction and Mass percentage</b>	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>JAL-BASTI</b> .	Prepare a PowerPoint presentation on Dimensions of physical Quantities. Project: Working model based on any scientific/electrical principle	
<b>AKASH MISHRA</b>	Should schools teach sign language?	<b>Discovery of sub-atomic particle</b>	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>TRATAK</b> .	Prepare a PowerPoint presentation on dimensional analysis and its applications. Project: Working model based on any scientific/electrical principle	
<b>ANANT AGGARWAL</b>	Should Art be a part of the school curriculum?	<b>Rutherford's experiment and atomic model</b>	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>STHAL-BASTI</b> .	Prepare a PowerPoint presentation on Frame of reference. Project: Working model based on any scientific/electrical principle	
<b>ANURAG SINGH</b>	How can food be recycled?	<b>Importance of chemistry</b>	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits &	Prepare a PowerPoint presentation on Motion in a straight line. Project:	

			Contraindications for <b>NAULI</b> .	Working model based on any scientific/electrical principle	
<b>ANUSHKA KASHYAP</b>	Things I learned in Lockdown.	<b>Spectrum (Emission and Absorption)</b>	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>VAMANA DHAUTI OR KUNJAL</b> .	Prepare a PowerPoint presentation on Elementary concepts of differentiation and integration for describing motion. Project: Working model based on any scientific/electrical principle	
<b>ARUN PODDAR</b>	Is there Value in Homework?	<b>Laws of chemical combinations</b>	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>VASTRA DHAUTI</b> .	Prepare a PowerPoint presentation on uniform and nonuniform motion, and instantaneous velocity, uniformly accelerated motion Project: Working model based on any scientific/electrical principle	
<b>ARYA GAUR</b>	Importance of sports and physical exercises	<b>Bohr's model for hydrogen atom</b>	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits &	Prepare a PowerPoint presentation on velocity - time and position-time graphs.	

			Contraindications for <b>KAPALBHATI.</b>	Relations for uniformly accelerated motion (graphical treatment). Project: Working model based on any scientific/electrical principle	
<b>AYUSH PANWAR</b>	Old Age Homes	Dual behavior of matter & Heisenberg's uncertainty principle.	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>SUTRANETI.</b>	Prepare a PowerPoint presentation on Scalar and vector quantities. Project: Working model based on any scientific/electrical principle	
<b>BHOOMIK A SINGHAL</b>	Orphanage verses foster home	Quantum numbers	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>JALANETI.</b>	Prepare a PowerPoint presentation on resolution of a vector in a plane. Project: Working model based on any scientific/electrical principle	
<b>DEVANSH SHARMA</b>	Rise of Technology	Shapes and Energies of atomic orbitals	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>SUTRANETI.</b>	Prepare a PowerPoint presentation on Need for measurement: Units of measurement; systems of units; Project:	

				Working model based on any scientific/electrical principle	
<b>DHRUV PUNDIR</b>	Actions speak louder than words	<b>Aufbau principle, Pauli exclusion principle and Hund's rule of maximum multiplicity</b>	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>STHAL-BASTI</b> .	Prepare a PowerPoint presentation on fundamental and derived units. Project: Working model based on any scientific/electrical principle	
<b>HARSHIT SAXENA</b>	Simile	<b>Discovery of sub-atomic particle</b>	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>JAL-BASTI</b> .	Prepare a PowerPoint presentation on Dimensions of physical Quantities. Project: Working model based on any scientific/electrical principle	
<b>HARSHIT SINGH</b>	Metaphor	<b>Mole fraction and Mass percentage</b>	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>TRATAK</b> .	Prepare a PowerPoint presentation on dimensional analysis and its applications. Project: Working model based on any scientific/electrical principle	

HITESH VERMA	Alliteration	Importance of chemistry	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>STHAL-BASTI</b> .	Prepare a PowerPoint presentation on Frame of reference. Project: Working model based on any scientific/electrical principle	
JIYA SHARMA	Personification	Mole fraction and Mass percentage	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>NAULI</b> .	Prepare a PowerPoint presentation on Motion in a straight line. Project: Working model based on any scientific/electrical principle	
KARAN KATHURIA	Oxymoron	Quantum numbers	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>VAMANA DHAUTI OR KUNJAL</b> .	Prepare a PowerPoint presentation on Elementary concepts of differentiation and integration for describing motion. Project: Working model based on any scientific/electrical principle	
KARTAVYA SHARMA	Third language and its significance	Rutherford's experiment and atomic model	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>VASTRA DHAUTI</b> .	Prepare a PowerPoint presentation on uniform and nonuniform motion, and instantaneous	

				velocity, uniformly accelerated motion Project: Working model based on any scientific/electrical principle	
KRISHNA SHARMA	NEP-2020	Shapes and Energies of atomic orbitals	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>KAPALBHATI</b> .	Prepare a PowerPoint presentation on velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment). Project: Working model based on any scientific/electrical principle	
KUNAL KUMAR	Brain Drain	Laws of chemical combinations	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>SUTRANETI</b> .	Prepare a PowerPoint presentation on Scalar and vector quantities. Project: Working model based on any scientific/electrical principle	
LAKSHYA KUMAR	Education: The Human Right	Dual behavior of matter & Heisenberg's	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits &	Prepare a PowerPoint presentation on resolution of a vector in a plane. Project:	

		uncertainty principle.	Contraindications for <b>JALANETI.</b>	Working model based on any scientific/electrical principle	
LAKSHYA SAXENA	Life Insurance and it's benefits	Discovery of sub-atomic particle	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>SUTRANETI.</b>	Prepare a PowerPoint presentation on Need for measurement: Units of measurement; systems of units;	
MADHAV RAJ	Mutual funds are subject to market risk. Why?	Shapes and Energies of atomic orbitals	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>STHAL-BASTI.</b>	Prepare a PowerPoint presentation on fundamental and derived units. Project: Working model based on any scientific/electrical principle	
MANAN MEHRA	Investment in share market	Spectrum (Emission and Absorption)	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>JAL-BASTI.</b>	Prepare a PowerPoint presentation on Dimensions of physical Quantities. Project: Working model based on any scientific/electrical principle	
NITYANSH SINGH	What is SEBI	Mole fraction and Mass percentage	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits &	Prepare a PowerPoint presentation on dimensional analysis and its applications. Project:	



			Contraindications for <b>TRATAK.</b>	Working model based on any scientific/electrical principle	
OM KUMAR	Civil Services	Importance of chemistry	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>STHAL-BASTI.</b>	Prepare a PowerPoint presentation on Frame of reference. Project: Working model based on any scientific/electrical principle	
PRINCE KASHYA P	Article 370	Molarity and Molality	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>NAULI.</b>	Prepare a PowerPoint presentation on Motion in a straight line. Project: Working model based on any scientific/electrical principle	
PRINCE VERMA	Importance of Internship	Rutherford's experiment and atomic model	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>VAMANA DHAUTI OR KUNJAL.</b>	Prepare a PowerPoint presentation on Elementary concepts of differentiation and integration for describing motion. Project: Working model based on any scientific/electrical principle	

PRIYANS H SHARMA	After 18 every child must earn	Discovery of sub-atomic particle	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>VASTRA DHAUTI.</b>	Prepare a PowerPoint presentation on uniform and nonuniform motion, and instantaneous velocity, uniformly accelerated motion Project: Working model based on any scientific/electrical principle	
RIDDHI GUPTA	Data Analysist: A new career opportunity	Bohr's model for hydrogen atom	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>KAPALBHATI.</b>	Prepare a PowerPoint presentation on velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment). Project: Working model based on any scientific/electrical principle	
RITVIK SINGH	How to assure internet security	Spectrum (Emission and Absorption)	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>SUTRANETI.</b>	Prepare a PowerPoint presentation on Scalar and vector quantities. Project: Working model based on any	

				scientific/electrical principle	
SAHIL DHANAK	Cultural Transaction	Rutherford's Atomic model and Its drawbacks.	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>JALANETI</b> .	Prepare a PowerPoint presentation on resolution of a vector in a plane. Project: Working model based on any scientific/electrical principle	
SHOURY A SHARMA	Design Thinking	Bohr's model for hydrogen atom	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>SUTRANETI</b> .	Prepare a PowerPoint presentation on Need for measurement: Units of measurement; systems of units; Project: Working model based on any scientific/electrical principle	
SHUBHA NKAR	Importance of AI	Aufbau principle, Pauli exclusion principle and Hund's rule of maximum multiplicity	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>STHAL-BASTI</b> .	Prepare a PowerPoint presentation on fundamental and derived units. Project: Working model based on any scientific/electrical principle	

SUDITYA SINGH	Key Feature of Parliament	Bohr's Atomic model and its failures.	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>JAL-BASTI</b> .	Prepare a PowerPoint presentation on Dimensions of physical Quantities. Project: Working model based on any scientific/electrical principle	
SUMIT CHAUHAN	Archeology: Caree opportunity	Dual behavior of matter & Heisenberg's uncertainty principle.	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>TRATAK</b> .	Prepare a PowerPoint presentation on dimensional analysis and its applications. Project: Working model based on any scientific/electrical principle	
TANYA SINGH	Advertisemen t verses reels	Rutherford's experiment and atomic model	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>STHAL-BASTI</b> .	Prepare a PowerPoint presentation on Frame of reference. Project: Working model based on any scientific/electrical principle	
VAIBHAV CHAWLA	Documentary and Biography	Quantum numbers	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>NAULI</b> .	Prepare a PowerPoint presentation on Motion in a straight line. Project: Working model based on any	

				scientific/electrical principle	
VANSH SAXENA	Reel verses Reality	Rutherford's Atomic model and Its drawbacks.	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>VAMANA DHAUTI OR KUNJAL.</b>	Prepare a PowerPoint presentation on Elementary concepts of differentiation and integration for describing motion. Project: Working model based on any scientific/electrical principle	
VANSHI KA BHARDWAJ	Internet: a need or addition	Aufbau principle, Pauli exclusion principle and Hund's rule of maximum multiplicity	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>VASTRA DHAUTI.</b>	Prepare a PowerPoint presentation on uniform and nonuniform motion, and instantaneous velocity, uniformly accelerated motion Project: Working model based on any scientific/electrical principle	
VISHAL YADAV	Intolerance: a threat for humanity	Discovery of sub-atomic particles	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>KAPALBHATI.</b>	Prepare a PowerPoint presentation on velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment).	

				Project: Working model based on any scientific/electrical principle	
VYOM GOEL	What is fear?	Dual behavior of matter & Heisenberg's uncertainty principle.	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>SUTRANETI</b> .	Prepare a PowerPoint presentation on Scalar and vector quantities. Project: Working model based on any scientific/electrical principle	
YASH MITTAL	Positive mindset	Laws of chemical combination	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>JALANETI</b> .	Prepare a PowerPoint presentation on resolution of a vector in a plane. Project: Working model based on any scientific/electrical principle	
YASH SHARMA	Anger: an enemy	Rutherford's Atomic model and Its drawbacks.	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>SUTRANETI</b> .	Prepare a PowerPoint presentation on Need for measurement: Units of measurement; systems of units; Project: Working model based on any scientific/electrical principle	

YASH TYAGI	All glitter is not gold	Bohr's Atomic model and its failures.	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>STHAL-BASTI</b> .	Prepare a PowerPoint presentation on fundamental and derived units. <b>Project:</b> Working model based on any scientific/electrical principle	
YUVANSH CHAUDHARY	Equity Fund	Shapes and Energies of atomic orbitals	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>JAL-BASTI</b> .	Prepare a PowerPoint presentation on Dimensions of physical Quantities. <b>Project:</b> Working model based on any scientific/electrical principle	
ANSHIKA SINGH	Why should we pay Tax	Discovery of sub-atomic particles	Prepare a power point presentation (3 Pages) <b>Topic</b> – Procedure, Benefits & Contraindications for <b>TRATAK</b> .	Prepare a PowerPoint presentation on dimensional analysis and its applications. <b>Project:</b> Working model based on any scientific/electrical principle	

**Class – XI**

**English project work**

Make a **Research Project** based on the given topics

**Roll no-1-to 8- New Education Policy in India (NEP 2020)**

**Roll no 9 to -16- Bio attack- a threat for humanity**

**Roll no 17 to 24- Bollywood: impact on teenagers**

**Roll no 25 to 32- Beauty product: a new business to gain profit**

**Roll no 33 to 40- Is Old generation a burden or a boon?**

**Roll no 41 to 48- Charm of higher position/post**

**NOTE- This Project-Portfolios is a compilation of the work that the students will submit in the first week of July.**

**Annual Viva (ASL) will be conducted based on this project only in the month of January.**

**The Project-Portfolios must include the following: \***

- \* cover page, with title of project, school details/details of students
- \* Statement of purpose/ objectives/Goals
- \* Certificate of completion under the guidance of the teacher.
- \* Action plan for the completion of assigned task.
- \* The 800-1000words essay/script/ Report
- \* Students / group reflections.
- \* If possible, photograph that Capture the positive experience of the students.
- \*List of resources

**The following points must be kept for consideration while assessing the project portfolios\***

- \*Quality of content of the project
- \*Accuracy of information



\*Adherence to the specified timeline

\*Content in respect of(spelling, Grammar, Punctuation)

\*Clarity of thoughts and ideas

\*Creativity

\* Knowledge and experience gained

**English Worksheet:-**

**Editing Exercises-**

<b>Incorrect Correct</b>	<b>Incorrect Correct</b>
1. In a Northern part of India,	
2. summer are very hot.	
3. June and July are the hot months.	
4. The Sun shine brightly and	
5. the heat was unbearable.	
6. A morning of a summer day	
7. are cool and pleasant.	
8. A cool breeze blows which refresh the mind and enlivens the heart.	

**Omission Exercise-**

	<b>Before</b>	<b>Ans</b>	<b>after</b>
The king preten4ed to/a thief and he knew,	to	be	a

where the keys the treasury were kept. While the	
diamonds shared, the honest thief felt pity	
for the king was losing his entire stock.	
He asked his companion to leave diamond	
behind in the safe, it was done. The next morning	
when was discovered that the treasury was	
looted, minister was sent by the king to access	
the loss. MinIster found a diamond that had missed the eyes of the thieves.	

Q1- You are Krishna/ Tisha, Secretary, Greenland Enterprises Ltd, Delhi-110006. Your Chairman has asked you to draft an advertisement for a local daily under the classified columns for the vacant posts of one accountant and two office assistants.

Draft an advertisement.

Q2-You are the Director of Disaster Management Authority. You want to make the people aware about earthquakes. Draft a poster for the same.

**Q3-Look at the words and phrases below. Rearrange them to form meaningful sentences. Write the correct sentences in your notebook.**

- (a) the/is/world/wrestling/oldest sports/in/the/one of
- (b) of/Europe/ancient/people/cave/wrestling/have been/drawings/in/found
- (c) television/amateur wrestling/very different/the/from/is/professional wrestling/on/seen/the
- (d) sport/not/money/amateur wrestlers/do/wrestle/love/for/they/wrestle/for the/of the
- (e) the/Olympics/the top goal/nearly/at/every/of/is/to compete/amateur wrestler

Q4- People have adapted to wearing face masks as a 'new normal'. But most of them do not know how to dispose of them properly. Spread awareness regarding the disposal of protective masks by writing a letter to an editor of a popular newspaper.

Q5- Write the gist of the chapter "The Portrait of A Lady".

Q6- Imagine you are John Bayro. Write a Letter to your friend describing your doubt about your stolen horse. (The Summer of the White Beautiful Horse)

**Q7-** Explain “The sea holiday was her past, mine is her laughter”. (The Photograph)

**Q8-** The Poet was feeling nostalgic about the photograph of her mother. Describe your own nostalgic feeling in the form of a poetry.

## **BIOLOGY**

**A. Make an HERBARIUM FLIE (TEN SHEETS) of given family and draw their floral diagram and taxonomical classification.**

- a. Solanaceae
- b. Fabaceae
- c. Liliaceae
- d. Poaceae
- e. Amaranthaceae
- f. Acoraceae
- g. Anacardiaceae
- h. Apocynaceae

**B. Write below mention practical topic in Biology practical file.**

1. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).

1. 2. Preparation and study of T.S. of dicot and monocot roots and stems (primary).
2. 3. Study of osmosis by potato osmometer.
3. 4. Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb).

4. 5. Study of distribution of stomata on the upper and lower surfaces of leaves.
5. 6. Comparative study of the rates of transpiration in the upper and lower surfaces of leaves.

**C. Make a Power Point Presentation on given topic (ch- Cell- The unit of life)**

Serial nu.	Topic	Student's name
1.	Cell	Anant
2.	Cell Theory	Bhoomika
3.	Prokaryotic cells	Hitesh
4.	Cell Envelope and its modification	Karan
5.	Ribosomes and Inclusion Bodies	Ritvik
6.	Eukaryotic cell	Prince
7	Cell membrane	Vishal
8.	Cell Wall	Yuvansh

## LEGAL STUDIES

### WORKSHEET – 1

- Q.1 What is the concept of the state, and how does it differ from other forms of governance
- Q.2 What are the essential elements that constitute a state?
- Q.3 What is the relationship between the state and sovereignty?
- Q.4 How does the concept of the state relate to the idea of citizenship?
- Q.5 What are the different theories and perspectives on the origins of the state?
- Q.6 What is the role of the state in promoting and protecting the welfare of its citizens?
- Q.7 How does the state exercise power and make decisions on behalf of the people?
- Q.8 What are the different forms of government that can exist within a state, such as democracy, monarchy, or dictatorship?
- Q.9 How does the state interact with other states in the international community?
- Q.10 How does the concept of the state relate to concepts such as nationalism and patriotism?

### WORKSHEET – 2

- Q.1 What are the three main organs of government in a democratic system?
- Q.2 How is the head of state and head of government typically selected in different countries?
- Q.3 What are the powers and responsibilities of the legislative branch in a government?
- Q.4 How are members of the legislative branch elected or appointed?
- Q.5 How does the judiciary contribute to the functioning of the government and the rule of law?
- Q.6 How do the organs of government collaborate and cooperate to make and implement policies?
- Q.7 What is the process for appointing judges to the judiciary?
- Q.8 What are the key challenges and controversies surrounding the balance of power among the organs of government?
- Q.9 How do the organs of government contribute to the protection and promotion of human rights?
- Q.10 How do the organs of government address issues of transparency and accountability in governance?

## WORKSHEET

### SUBJECT-ENTREPRENEURSHIP

**I. Answer each of these questions in about 15 words:**

- Q.1 What is an Enterprise?
- Q.2 Who is an entrepreneur?
- Q.3 Who plays the role of an entrepreneur in a socialist country?

**II. Answer each of these questions in about 50 words:**

- Q.4 Explain any two advantages of being an entrepreneur.
- Q.5 Explain any two disadvantages of being an entrepreneur.
- Q.6 Differentiate between entrepreneur and entrepreneurship.

**III. Answer each of these questions in about 150 words:**

- Q.7 Describe entrepreneurial functions of an entrepreneur.
- Q.8 What is the need of entrepreneurship in an economy?
- Q.9 Mehak wants to start a textile unit near Gurgaon. Discuss the commercial function which will require to plan and perform for the same.
- Q.10 Explain any four managerial functions of an entrepreneur.
- Q.11 Explain any four promotional functions of an entrepreneur.

**IV. Answer each of these questions in about 250 words:**

- Q.12 Describe the process of entrepreneurship.
- Q.13 What is the need of entrepreneurship in an economy? Give at least six benefits.

**V. Higher Order Skills**

- Q.14 Differentiate between entrepreneurial functions and managerial functions of an entrepreneur.
- Q.15 “Innovation is the hallmark of entrepreneurship”. Why is “innovation” referred as the basic function of an entrepreneur?
- Q.16 “Entrepreneurs, in their drive and pursuit to create something new, at times, results in causing major loss to the Nation’s natural resources. Shouldn’t they be discouraged? Justify giving reasons for your answers.
- Q.17 Starting a venture is not an easy task. A series of activities needs to be planned and undertaken to create an enterprise. Discuss them briefly.
- Q.18 Why are entrepreneurs called agents of progress for a nation? What role do they play in the Nation’s development?

## **VI. Application -Based Exercise:**

19. Shivi, a dropout from 10th std is forced by her mother to start working as help. Shivi agrees on the condition to do only “cooking” in 2-3 houses. One family turns out to be Punjabi, another Gujarati and the third one is Rajasthani. She cooked their kinds of food for a year and to everyone’s surprise, she expressed her desire to open up a small eating joint of her own. All alone, determined, she finally opens “Apna Bhoj”, a small eating joint with her savings and it became a hot spot because of the fusion food platter being offered. Do you think Shivi is an entrepreneur? Give reasons for your answers.

20. Karan, a rural boy, identifies the potential of organic farming in the village. He meets the zonal agricultural officer, who, looking at the determination of this 20 years old, helps him arrange and procure multiple resources required for his farm land. Then Karan takes a loan of Rs. 50,000/- from SBI as his seed money of Rs. 10,000/- is not enough to cater the requirement. Karan ties up with a nearby city’s vegetable shop owner to sell his yield. His hard work pays and the organic vegetables are a hit. This organic vegetable producer exhibits to be a good entrepreneur with good entrepreneurial skills. Do you agree? Justify giving reasons for your answer.



# Artificial Intelligence Holiday Home Work

## Exploring AI Applications

**Objective:** To explore and present the practical applications of Artificial Intelligence in various fields and industries.

### Instructions:

1. Choose any three industries or fields of your interest (e.g., healthcare, finance, transportation, etc.).
2. Research and identify specific applications of Artificial Intelligence in each of the chosen industries/fields.
3. Prepare a presentation to showcase the AI applications, their significance, and potential impact on the respective industries/fields.
4. Include real-life examples, case studies, or success stories related to each application.
5. Discuss the benefits, challenges, and ethical considerations associated with AI implementation in these industries/fields.
6. Use reliable sources, such as research papers, articles, and credible websites, to gather information.
7. Structure your presentation with an introduction, separate sections for each industry/field, and a conclusion.
8. Include proper referencing and citations for the sources used in your presentation.

### Presentation Guidelines:

- Create a slide deck using presentation software (e.g., PowerPoint, Google Slides).
- Each slide should have concise bullet points or visuals to convey the key information.
- Use appropriate fonts, colors, and visuals to enhance the presentation.
- Aim for a balanced distribution of content across the slides.
- Practice your presentation to ensure clarity and confidence during delivery.

**Note:** Feel free to discuss any difficulties or questions. Remember to give proper credit to the sources you use and avoid plagiarism.

**Good luck with your holiday homework!**

**HOLIDAY HOME WORK**  
**(CHEMISTRY)**  
**WORKSHEET**

- How much potassium chlorate should be heated to produce 2.24L of oxygen at NTP?
- Calculate the weight of lime (CaO) obtained by heating 2000kg of 95% pure lime stone (CaCO<sub>3</sub>)
- 4 litres of water are added to 2L of 6 molar HCl solutions. What is the molarity of resulting solution?
- What volume of 10M HCl and 3M HCl should be mixed to obtain 1L of 6M HCl solution?
- Calculate the number of moles in the following masses –
  - 7.85g of Fe
  - 7.9mg of Ca
- How has chemistry contributed towards nation's development?
- What are isotones? Give examples.
- Calculate energy of 2mole of photons of radiation whose frequency is  $5 \times 10^{14} \text{ Hz}$ .
- Arrange the electrons represented by the following sets of quantum number in decreasing order of energy.
  - $n = 4, l = 0, m = 0, s = +1/2$
  - $n = 3, l = 1, m = 1, s = -1/2$
  - $n = 3, l = 2, m = 0, s = +1/2$
- Write the electronic configuration of (i) Mn<sup>4+</sup>, (ii) Fe<sup>3+</sup> (iii) Cr<sup>2+</sup> and Zn<sup>2+</sup> Mention the number of unpaired electrons in each case.
- Spectral lines are regarded as the finger prints of the elements. Why?
- What transition in the hydrogen spectrum would have the same wavelength as the Balmer transition,  $n = 4$  to  $n = 2$  of He<sup>+</sup> spectrum?
- Explain photoelectric effect.
- How many spherical nodal surfaces are there in 4s – sub-shell?
- Calculate the uncertainty in the velocity of a wagon of mass 4000kg whose position is known accurately of  $\pm 10\text{m}$ .

**HOLIDAY HOME WORK**  
**(MATHS)**  
**WORKSHEET**

- (1) What is the value of  $n(A \cap (A \cup B))$  For any two sets A and B ?
- (2) Write the set in the set-builder form :  $A = \{1, 4, 9, \dots, 100\}$ .
- (3) If A and B are two Finite set then  $n(A) + n(B)$  is equal to .....
- (4) If A is a Finite set Containing an elements then number of subset of A is.....
- (5) If  $n(A \times B)$  and  $n(A) = 50$  , then the number of element in P(B) .....
- (6) If  $f(x) = X + 1/X - 1$  , Show that  $f[f(x)] = x$  .
- (7) In a class of 60 students, 23 play hockey, 15 play basketball, 20 play cricket and 7 play hockey and basketball, 5 play cricket and basketball, 4 play hockey and cricket, 15 do not play any of the three games. Find
  - (i) How many play hockey, basketball and cricket
  - (ii) How many play hockey but not cricket
  - (iii) How many play hockey and cricket but not basketball
- (8) Write the given complex number  $(1 - i) - (-1 + i6)$  in the form  $a + ib$
- (9) Find the modulus of  $[(1+i)/(1-i)] - [(1-i)/(1+i)]$
- (10) Solve the equation  $|z| = z + 1 + 2i$ .
- (11) If  $|z_1| = 1$  ( $z_1 \neq -1$ ) and  $z_2 = z_1 - 1/z_1 + 1$  , then show that real part of  $z_2$  is zero