# AUM SUN PUBLIC SCHOOL HOLIDAY HOMEWORK 2025-26 CLASS – 11 (SCIENCE) SUBJECT – ENGLISH WORKSHEET 1

NOTE- Summer Assignment is to be done in A4 sheets in good handwriting.

#### Q.1 Read the passage carefully and answer the following questions.

Spices bring to mind images of tempting cuisine, fascinating voyages and the bitter struggle for independence. Expressions like 'variety is the spice of life' and 'sugar and spice and all that is nice', explain how spices play upon the literary abilities of men of letters.

To Orientals, spices are indeed the soul of their food. In the western world, it evokes dreams of exotic tropical islands, exciting expeditions, and the rise and fall of empires. Columbus went westwards in 1492, from Europe, to find a sea route to the land of spices, but found the New World. Eight years later, Vasco da Gama went round Africa and touched Kozhikode on the south west coast of India. Long before that, Arabs started trading with the Orients through land routes. During the 13th century, Marco Polo began the travelling and experienced attraction of spices. The European conquests and trade arrangement in India and the East Indies also have a lot to do with spices.

Thousands of years ago, great masters of Ayurveda notably Susruta and Charaka discussed in detail the uses of spices for culinary and medicinal purposes. Enterprising soldiers of fortune carried the knowledge of spices to Egypt. There they used spices and aromatic herbs in food, medicine, cosmetics and for embalming. The conquest of Egypt and Asia by Alexander the Great, made spices an article of commercial value in the Mediterranean countries and central and northern Europe. There are reports of pepper being used in the preservation of meat, and to mask the unpleasant odour of stale meat available after the long winter storage.

Hippocrates, the father of modern medicine, and Theophrastus, a Greek scholar and botanist, wrote treatises on medicinal plants, including spices.

- 1. Why do spices fascinate people?
- 2. What does "Variety is the spice of life" mean?
- 3. In 13 century who was attracted towards the spices?
- 4. Where did Columbus want to reach?
- 5. Where did Vasco da Gama go?
- 6. What is meant by 'cuisine'?
- 7. What did Susruta and Charaka discuss in detail?
- 8. What made spices an article of commercial value in Mediterranean countries?
- 9. Who have written treatises on medicinal plants, including spices?
- 10. How did people of Egypt use the spices?

# 2. Read any poem/story/novel. Write its review with 5 literary devices which are used in it. RUBRICS

Grammatical Accuracy- 2 Marks Content- 4 Marks Presentation- 2 Marks Timely Submission- 2 Marks 3. You are the Principal of Roman Public School, Delhi. You need part time teacher to teach dance to the students of your school. Draft an advertisement in not more than 50 words to be published in the Hindustan Times, New Delhi under the classified columns.

# 4. Fill in the blanks in the passage given below with the appropriate form of the verb given in brackets. Do not write the passage, but write the verbs in the correct order.

#### WORKSHEET 2

#### NOTE- Summer Assignment is to be done in A4 sheets in good handwriting.

#### **READING SKILL**

#### **BALANCING THE SCALES**

Artificial intelligence (AI) is making a difference to how legal work is done, but it isn't the threat it is made out to be. AI is making impressive progress and shaking up things all over the world today. The assumption that advancements in technology and artificial intelligence will render any profession defunct is just that, an assumption and a false one. The only purpose this assumption serves is creating mass panic and hostility towards embracing technology that is meant to make our lives easier.

Let us understand what this means explicitly for the legal world. The ambit of AI includes recognizing human speech and objects, making decisions based on data, and translating languages. Tasks that can be defined as 'search-and-find' type can be performed by AI.

Introducing AI to this profession will primarily be for the purpose of automating mundane, tedious tasks that require negligible human intelligence. The kind of artificial intelligence that is employed by industries in the current scene, when extended to the law will enable quicker services at a lower price. AI is meant to automate a number of tasks that take up precious working hours lawyers could be devoted to tasks that require discerning, empathy, and trust- qualities that cannot be replicated by even the most sophisticated form of AI. The legal profession is one of the oldest professions in the world. Thriving over 1000 years; trust, judgement, and diligence are the pillars of this profession. The most important pillar is the relationship of trust between a lawyer and clients, which can only be achieved through human connection and interaction.

While artificial intelligence can be useful in scanning and organizing documents pertaining to a case, it cannot perform higher-level tasks such as sharp decision making, relationship-building with valuable clients and writing legal briefs, advising clients, and appearing in court. These are over and above the realm of computerization.

The smooth proceeding of a case is not possible without sound legal research. While presenting cases lawyers need to assimilate information in the form of legal research by referring to a number of relevant cases to find those that will favour their client's motion. Lawyers are even required to thoroughly know the opposing stand and supporting legal arguments they can expect to prepare a watertight defence strategy. AI, software that operates on natural language enables electronic discovery of information relevant to a case, contract reviews, and automation generation of legal documents.

Al utilizes big-data analytics which enables visualization of case data. It also allows for creation of a map of the cases which were cited in previous cases and their resulting verdicts, as per the website

Towards Data Science. The probability of a positive outcome of a case can be predicted by leveraging predictive analytics with machine learning. This is advantageous to firms as they can determine the return on investment in litigation and whether an agreement or arbitration should be considered.

1. Write a summary of the above passage in about 80 words and give a suitable title also.

### WRITING SKILL

2. You are Prem/ Priya of Kamal Public School, Indore, your school is going to organise Tree Plantation Drive at PitraParwat. Draft a Poster to invite the parents and the students of your school.

# 3. Translate the following sentences into English.

a) मैं रविवार से अपनी परीक्षा के लिए कड़ी मेहनत कर रहा हूँगा ।

b) हम दो सप्ताह से काम पर जा रहे होंगे।

c) राम शनिवार से रात ११ बजे सो रहा होगा ।

d) वह चार घंटे तक खरीदारी करता रहा होगा।

### WORKSHEET 3

## NOTE- Summer Assignment is to be done in A4 sheets in good handwriting.

1.National Book Trust is going to organise Book Fair in memory of Mahatma Gandhi on 2 Oct. Design a poster on the Book Fair highlighting the importance of books.

2.. Red Cross Health Society is organizing a blood donation camp in your school. Draft a Poster highlighting the importance and usefulness of the blood donation. You are Asit/Seema of Modern High School, Bhopal.

3.. Nomadic Matt Travels offers an exciting vacation package of 3 nights and 4 days to North Sikkim at reasonable price. Draft an advertisement for Local daily in about 50 words. Give all necessary details.

# 4. Rearrange the parts of the sentences in correct order.

a) themes/explore/novels/variety/a/wide/in/of/different/literature/can

b) during /the /century /advances/ technological / significant /made /have /20th

# 5. Choose the correct option to make the correct sentence.

i) The book, \_\_\_\_\_\_ was recommended by my friend, turned out to be a captivating mystery.

a) who b) whom c) which d) when

ii) \_\_\_\_\_ the storm passed, the residents were able to return to their homes.

a) Although b) Despite c) Once d) whereas

# 6. Fill in the blanks with appropriate options out of the given ones:

I (a)\_\_\_\_\_India ( b)\_\_\_\_\_ a superpower by 2030. But I (c) \_\_\_\_\_ that the rich will become richer.

(a) i. thinks ii. Think iii. thinking iv. thought

(b) i. will become ii. become iii. has become iv. becoming

(c) i. feared ii. am fearing iii. fear iv. fears

# 7. Fill in the blanks using suitable determiners.

A man went for a holiday to(a) \_\_\_\_\_ (a/an/the) place near (b) \_\_\_\_\_ (a/an/the) sea.

# 8. Fill in the blanks with suitable modals:

(a) Monika: Mother \_\_\_\_\_ I go to the market.

( b)Mother: No, you \_\_\_\_\_ not.

#### 9. A Read the given extract and answer the questions that follow:

My grandmother, like everybody's grandmother, was an old woman. She had been old and wrinkled for the twenty years that I had known her. People said that she had once been young and pretty and had even had a husband, but that was hard to believe. My grandfather's portrait hung above the mantelpiece in the drawing room. He wore a big turban and loose-fitting clothes. His long, white beard covered the best part of his chest and he looked at least a hundred years old.

#### 1. Name the chapter.

A. The Portrait of a Lady	B. Landscape of the Soul				
C. Discovering Tut	D. We are not Afraid to Die if we can all be Together				
2. Name the author.					
A. Khushwant Singh	B. A.R. Williams	C. Marga	a Minco	D. Kalki	
3. What literary device is employed in "Like everyone's grandmother"?					
A Metaphor	B. Simile C. Transferred Epithet D. Enjambmen		nbmen		
4. Find out the synonym of 'Pretty' from the following?					
A. Beautiful	B. Ugly	C. Unattractive	D. None of thes	e	
10. Mourad was sitting on a beautiful white horse. I stuck my head out of the window and rubbed my eyes. Yes, he said in Armenian. It's a horse. You're not dreaming. Make it quick if you want to ride. I knew my cousin Mourad enjoyed being alive more than anybody else who had ever fallen into the world by mistake, but this was more than even I could believe.					

#### 1 How is Mourad associated with Aram

A) Real Brother B) Cousin C) Father D) Son

#### 2 What did Aram get to see?

A) His cousin was sitting on a dog B) His cousin was sitting on a bike

C) His cousin was sitting on a horse D) His cousin was sitting on a car

#### 3. Why could Aram not believe what he saw?

A) For they were rich and could afford a horseB) For they were poor and could not afford a horseC) For they were poor but could afford a horseD) None of these

#### 4 Which tribe did Aram and Mourad belong to? .

A) Steward B) Crofter C) Garoghlanian D) Australian

#### SUBJECT – PHYSICS

#### WORKSHEET 1

Q1. What does the slope of v-t graph indicate?

Q2. Under what condition the average velocity equal to instantaneous velocity?

Q.3. The position coordinate of a moving particle is given by x=6+18t+9t2 (x in meter, t in seconds) what is it's velocity at t=2s.

Q4. Give an example when a body moving with uniform speed has acceleration.

Q5. Two balls of different masses are thrown vertically upward with same initial velocity. Height attained by them are h1 and h2 respectively what is h1/h2.

Q6. Derive an equation for the distance travelled by a uniformly accelerating body in n th second of its motion.

Q7. The velocity of a moving particle is given by  $V=6+18t+9t^2$  (x in meter, t in seconds) what is it's acceleration at t=2s.

Q8. what is relative velocity in one dimension, if VA and VB are the velocities of the body A and B respectively then prove that VAB=VA-VB?

#### WORKSHEET 2

Q1. A gunman always keeps his gun slightly tilted above the line of sight while shooting. Why?

Q4: Draw position –time graphs of two objects , A and B moving along straight line, when their relative velocity is zero.

Q6. Is larger surface area break on a bicycle wheel more effective than small surface area brake? Explain?

#### WORKSHEET-3

Make a Portiofolio.

#### SUBJECT- CHEMISTRY

# Holiday Homework WORKSHEET-1

- 1. State law of definite proportions.
- 2. What is the symbol for the SI unit of the mole? How is the mole defined?
- 3. What is the difference between molality and molarity?

4. If two elements can combine to form more than one compound, the masses of one element that combine with a fixed mass of the other element, are in a whole-number ratio.

- (i) Is this statement true?
- (ii) If yes, state according to which law?
- (iii) Give one example related to this law.

5. The arrangement of orbitals on the basis of energy is based upon their (n+1) value. Lower the value of (n+1), the lower is the energy. For orbitals having the same values of (n+1), the orbital with a lower value of n will have lower energy.

I. Based upon the above information, arrange the following orbitals in the increasing order of energy.

(a) 1s, 2s, 3s, 3p
(b) 4s, 3s, 3p, 4d
(c) 5p, 4d, 5d, 4f, 6s
(d) 5f, 6d, 7s, 7p
II. Based upon the above information, solve the questions given below :
(a) Which of the following orbitals has the lowest energy?

4d, 4f, 5s, 5p(b) Which of the following orbitals has the highest energy?

5p, 5d, 5f, 6s, 6p

6. An atom having atomic mass number 13 has 7 neutrons. What is the atomic number of the atom?

7. Wavelengths of different radiations are given below:

$$\begin{split} \lambda(A) &= 300 \text{ nm} \\ \lambda(B) &= 300 \text{ } \mu\text{m} \\ \lambda(C) &= 3 \text{ nm} \\ \lambda(D) &= 30 \text{ Å} \\ \text{Arrange these radiations in the increasing order of their energies.} \end{split}$$

#### **WORKSHEET-2**

1. The Balmer series in the hydrogen spectrum corresponds to the transition from  $n_1 = 2$  to  $n_2 = 3,4,...$  This series lies in the visible region. Calculate the wave number of the line associated with the transition in the Balmer series when the electron moves to n = 4 orbit. ( $R_H = 109677$  cm<sup>-1</sup>).

2 What is the difference between the terms orbit and orbital?

3.Chlorophyll present in green leaves of plants absorbs light at  $4.620 \ge 10^{14}$  Hz. Calculate the wavelength of radiation in nanometer. Which part of the electromagnetic spectrum does it belong to?

4. Match the quantum numbers with the information provided by these.

Quantum number	Information provided
(i) Principal quantum number	(a) orientation of the orbital
(ii) Azimuthal quantum number	(b) energy and size of orbital
(iii) Magnetic quantum number	(c) spin of electron
(iv) Spin quantum number	(d) shape of the orbital

5.Calculate the energy and frequency of the radiation emitted when an electron jumps from n = 3 to n = 2 in a hydrogen atom.

6. The density of the 3 molal solution of NaOH is  $1.110 \text{ g mL}^{-1}$ . Calculate the molarity of the solution.

7.Assertion (A): The empirical mass of ethene is half of its molecular mass.

**Reason** (**R**): The empirical formula represents the simplest whole-number ratio of various atoms present in a compound.

(i) Both A and R are true and R is the correct explanation of A.

(ii) A is true but R is false.

(iii) A is false but R is true.

(iv) Both A and R are false.

#### WORKSHEET-3

1.Assertion (A): One atomic mass unit is defined as one-twelfth of the mass of one carbon-12 atom.

**Reason** (**R**): Carbon-12 isotope is the most abundant isotope of carbon and has been chosen as the standard.

(i) Both A and R are true and R is the correct explanation of A.

(ii) Both A and R are true but R is not the correct explanation of A.

(iii) A is true but R is false.

(iv) Both A and R are false.

2.If 500 mL of a 5 M solution is diluted to 1500 mL, what will be the molarity of the solution obtained?

(a) 1.5M (b) 1.6M (c) 0.017M (d) 1.59M

3. The number of atoms present in one mole of an element is equal to Avogadro number. Which of the following elements contains the greatest number of atoms? (a) 4gHe (b) 46gNa (c) 0.40 gCa (d) 12 g He

4.What will be the molality of the solution containing 18.25 g of HCl gas in 500 g of water? (a) 0.1 m (b) 1 M (c) 0.5 m (d) 1 m

5. The empirical formula and molecular mass of a compound are  $CH_20$  and 180g respectively. What will be the molecular formula of the compound? (a)  $C_9H_{18}O_9$ , (b)  $CH_20$  (c)  $C_6H_{i2}O_6$  (d)  $C_2H_4O_2$ 

6. Which of the following reactions is not correct according to the law of conservation of mass? (a)2Mg(s)+ $0_2(g) \rightarrow 2MgO(s)$ (b)C<sub>3</sub>H<sub>8</sub>(g)+ $0_2(g) \rightarrow C0_2(g)$ +H<sub>2</sub>O(g) (c)P<sub>4</sub>(s)+50<sub>2</sub>(g) $\rightarrow$ P<sub>4</sub>O<sub>10</sub>(s) (d) CH<sub>4</sub>(g) + 20<sub>2</sub>(g)  $\rightarrow$  C0<sub>2</sub>(g) + 2H<sub>2</sub>O(g)

#### SUBJECT – MATHS

1. Prepare a portfolio file including basic concepts and formula of

Ch-i.Sets

iiTrigonometry

iiiComplex

Number

iv Linear

inequalities

Also write about 5 mathematician contribution in maths.

#### 2. Solve P.T 1 question paper on A-4 Sheet.

#### SUBJECT – BIOLOGY

#### Worksheet-1

1.write 20 Biological names.(ten plants and ten animals)

2. Make 3D model of tobacco mosaic virus or Bacteriophage.

#### Worksheet\_2

1. Make herbarium sheet (Any 5 plants)

2.Complete the given experiments in the lab manual.

3. Suggest an activity to clean your surroundings in your locality from waste /garbage improper disposal . Draw related pictures also .

#### 4. Complete notes of ch-cell

#### Worksheet -3

- 1. write about mycorrhiza and red tide and paste their beautiful pictures.
- 2.find differences between -
- i) Liverwort and mosses
- iii ) Chlorophyceae, phaeophycean and Rhodophyceae.

iv) virus and viroids

- v)antheridia and archegonia.
- vi) Gametophyte and sporophyte

vii) cycus and pinus

3. Revise ch-biomolecules

#### SUBJECT – PHYSICAL EDUCATION

- Q1. Write any game according to your syllabus in Lab manual.
- Q2. Make a chart of 'Shath Karma'.