

APS INTERNATIONAL SCHOOL, UJHANI
SUMMER HOLIDAY HOMEWORK (2024-25)
CLASS- IX

SUBJECT- ENGLISH

Kindly do the undermentioned work on 'Optima' language and literature (Practice Sheets) in legible handwriting.

- 1- Reading Comprehension (Page O. 5 to 65 worksheet 5 to 15)
- 2- Grammar (Page NO. 139 and 140) (Page NO. 177 and 178)
- 3- Writing (Page No. 100 to 103)
- 4- Literature
(Page NO. 223 to 240 Beehive),
(Page NO. 277 to 282 (Beehive Poetry))
(Page No. 325 to 328 (Moments))

SUBJECT- HINDI

1. सुमिश्रा नंद पंत की कविता 'चीटी' तथा महादेवी वर्मा की कविता 'कोयल' कंठस्थ करे तथा लिखे जब विद्यालय आयेंगे तो समस्त कक्षा विद्यार्थियों के समक्ष कविता का सुवाचन/स्वरवाचन करें।
2. मुंशी प्रेमचंद का प्रसिद्ध उपन्यास 'गोदान' ध्यानपूर्वक पढ़े तथा उसकी समीक्षा अपने शब्दों में लिखे। (180 से 200) शब्दों में।
3. शीर्षक लक्ष्य पर अनुक्रमांक (1 से 10) तक के विद्यार्थी कविता कंठस्थ करें तथा लिखे कवि का चित्र सहित शीर्षक 'परोपकार' पर अनुक्रमांक (11 से 20) तक के विद्यार्थी कविता कंठस्थ करें तथा लिखें कवि का चित्र सहित शीर्षक 'आजादी' पर अनुक्रमांक (21 से 30) तक के विद्यार्थी कविता कंठस्थ करें तथा लिखें शीर्षक 'शिष्टाचार' पर अनुक्रमांक (31 से 45) तक के विद्यार्थी कविता कंठस्थ करे तथा लिखें।
4. महादेवी वर्मा को आधुनिक मीरा कहने का क्या कारण है। अपने विचार व्यक्त कीजिए।
5. सुमित्रा नंदपंत को प्रकृति का सुकुमार क्यों कहा जाता है। प्रकृति से संबंधित उनकी किसी कविता की व्याख्या अपने शब्दों में चित्र सहित करें।
(समस्त कार्य एक प्रोजेक्ट फाइल में करें।)

SUBJECT- MATHEMATICS

- 1- Prepare a project file on the history of *Pie* (π) and correlate *Pie* (π) in real life situations.
- 2- Prepare a bar graph representing the literacy rate of 2 countries (India and China) for the last 5 years i.e. 2019-2023.
- 3- Solve the following:
 - a) Convert $0.\bar{6} \times 0.00\bar{27}$ in $\frac{p}{q}$ form.
 - b) Simplify: i) $\sqrt{8} + 16\sqrt{2} - \sqrt{128}$
ii) $\frac{2^n + 2^{n-1}}{2^{n+1} - 2^n}$
 - c) If $x = \frac{1}{2-\sqrt{3}}$ find $x^3 - 2x^2 - 7x + 5$.
 - d) Find a and b if $\frac{7+\sqrt{5}}{7-\sqrt{5}} - \frac{7-\sqrt{5}}{7+\sqrt{5}} = a + 7\sqrt{5}b$.
 - e) If $x = 3 + 2\sqrt{2}$, find i) $x^2 + \frac{1}{x^2}$
ii) $x^4 + \frac{1}{x^4}$

SUBJECT- SCIENCE

General Instructions-

1. Do all these worksheets in your class notebook.
2. Write only answers of the given questions in respective worksheets.

Worksheet 01

Note- This worksheet includes multiple choice questions.

1. During summer, water kept in earthen pots becomes cool because of the phenomenon of-
(a) Diffusion (b) Osmosis (c) Transpiration (d) Evaporation
2. The property of flow is unique to fluids. Which one of the following statement is correct?
(a) Only gases behave like fluids (b) Gases & solids behave like fluids
(c) Gases & Liquids behave like fluids (d) Only liquid are fluids.
3. Which condition out of the following will increase the evaporation of water?
(a) Increase in temperature of water (b) Decrease in temperature of water
(c) Less exposed surface area of water (d) Adding common salt to water.
4. Liquids diffuse slowly compared to gases because-
(a) the molecules of liquids are heavy (b) the molecules of liquids move fast
(c) liquids do not have any definite shape
(d) liquids have higher intermolecular force.
5. Which of the following does not affect the rate of evaporation?
(a) Wind Speed (b) Humidity (c) Surface Area (d) Impurities
6. A few substances are arranged in the increasing order of inter particle spaces. Which of the following represents the correct arrangement?
(a) Gold, Ethanol, Nitrogen (b) Water, Iron, Oxygen
(c) Aluminium, Hydrogen, Glycerine (d) Carbon dioxide, Alcohol, Copper
7. The correct condition to liquefy the atmospheric gases into liquids is-
(a) Low temperature, Low Pressure (b) Low temperature, High Pressure
(c) High temperature, Low Pressure (d) High temperature, High Pressure
8. The cell organelle other than the nucleus, contains its own DNA-
(a) Endoplasmic Reticulum (b) Golgi Body (c) Ribosome
(d) Mitochondria
9. The proteins and lipids help in reconstituting the plasma membrane are provided by the-
(a) Endoplasmic Reticulum (b) Golgi Body (c) Ribosome
(d) Mitochondria
10. Which out of the following is not the function of Vacuole?
(a) Storage (b) Providing turgidity & rigidity to cell
(c) Waste excretion (d) Locomotion
11. Which of the following helps in detoxifying the drugs & poisons present in the cell?
(a) RER (b) SER (c) Golgi Body (d) Nucleus
12. Amoeba acquires its food through-
(a) exocytosis (b) endocytosis
(c) plasmolysis (d) endocytosis & exocytosis both
13. The inner folded layer of mitochondria contains granular like appearance is known as-
(a) Lamellae (b) Cristal (c) Matrix (d) Stroma
14. The cell organelle helps in formation of complex sugars from the simple sugars-
(a) RER (b) SER (c) Golgi Body (d) Nucleus

Questions 15 to 20 are Assertion- Reasoning based Questions. Options are given below-

- (a) Both A & R are true and R is not the correct explanation of A.
- (b) Both A & R are true but R is not the correct explanation of A.
- (c) A is true but R is false.

(d) A is false but R is true.

15. Assertion (A)- Ice floats on water.
Reason (R)- Liquids have lower density than the solids.
16. Assertion (A)- Gases exert pressure on the walls of the container.
Reason (R)- The intermolecular force of attraction is very strong in gases.
17. Assertion (A)- Steam is better than boiling water for heating purposes.
Reason (R)- Steam contains higher kinetic energy than the boiling water.
18. Assertion (A)- The cell wall in plant cell is non-living & freely permeable.
Reason (R)- Cell wall in plant cell provides mechanical strength to the cell.
19. Assertion (A)- Mitochondria is also known as power house of the cell.
Reason (R)- Mitochondria has its own DNA & proteins.
20. Assertion (A)- Endoplasmic reticulum acts as an intercellular transporting system of cell.
Reason (R)- It helps in reconstituting the cell membrane by providing lipids & proteins.

Worksheet 02

Note- This worksheet includes short answer type questions.

- Why do we see water droplets on the outer surface of a glass containing ice cold water?
- Why do the doctors advise to put strips of wet cloth on the forehead of a person having high fever?
- Explain why-
 - Wet clothes dry quickly in the sun than in the shade.
 - We feel more comfortable under fan when we are perspiring.
- It is a hot summer day; Siya and Ali are wearing the cotton and nylon clothes respectively. What do you think would be more comfortable and why?
- Suggest an activity to show that the rate of diffusion of liquids decreases with increase in the density of the liquid.
- Why are Golgi bodies found in large numbers in the cells which secrete digestive enzymes?
- Differentiate between RER & SER. How is endoplasmic reticulum important for membrane biogenesis?
- What is Cell division? State the both types of cell division.
- Explain about the structure & functions of Mitochondria along with its diagram.
- In brief state what happens when:
 - dry apricots are left for sometime in pure water and later transferred to the sugar solution.
 - Golgi body is removed out from the cell.

PROJECT ACTIVITY

- Prepare a news report based on latest inventions and discoveries.

Instructions to draft the report are-

- Use A4 Sheets to write the news.
- The number of latest (2024) inventions/discoveries should be atleast 'five'.
- Also mention the references from wherever you have collected the news.
- Try to stay away from 'copy-pasting'.

SUBJECT- SOCIAL SCIENCE

1. Prepare a list of the resources which are utilized in your household and indicate which resources are natural and man made.
2. Collect the pictures of James Mill, James Rennel and Herodotus and write five lines on each of them in a history notebook.
3. Prepare a beautiful chart, writing the Preamble in beautiful handwriting.
4. Paste an Indian political map in your Geography notebook and locate all the Indian states with its capital.

SUBJECT- COMPUTER

NOTE:-

1. Take the print out of this worksheet and solve it.
 2. Question number 1 to 20 are objective type questions
 3. Question number 21 to 30 are subjective type questions
- Q1. _____ Communication is the sharing of information by using words.
a. Non-verbal b. Verbal c. Visual d. Written
- Q2. A _____ is a group of sentences dealing with a particular topic.
a. Paragraph b. Sentence c. Phrase d. Article
- Q3. How do you receive information on the phone?
a. Reading b. Listening. c. Speaking d. Writing
- Q4. When we communicate verbally, we should use _____ words.
a. confusing. b. Difficult. c. Abbreviation d. Simple.
- Q5. What does an upright body posture show?
a. shyness b. Fear c. Confidence d. Intelligence
- Q6. Identify the subject in the sentence. 'The children played football'.
a. The children. b. Played. c. Football d. None.
- Q7. The road communication came from the _____ word.
a. French b. Latin. c. Greek d. German
- Q8. The information can be _____.
a. Drawings. b. Words. c. Gestures. d. All of these.
- Q9. _____ Means to change the message into a form suitable for sending.
a. Decoding. b. Encoding. c. Feedback. d. Receiver.
- Q10. Get out of the class, this is a/an _____ sentence.
a. Interrogative. b. Exclamatory. c. Imperative. d. Declarative.
- Q11. Dressing and grooming are important because they help us to look _____.
a. smart. b. Untidy. c. Shabby. d. All of these.
- Q12. Which of the following is not a self management skill?
a. self motivation. b. Problem solving c. Teamwork d. Drawing pictures.
- Q13. Ability to control your behaviour, discipline, etc is regarded as _____.
a. self control. b. Self awareness. c. confidence. d. Problem solving
- Q14. What is self management?
a. self regulation. b. Self awareness. c. Self perseverance. d. Both a and b.
- Q15. Which type of people can easily convince others?
a. self confident. b. Talkative. c. Influential. d. Self confidence
- Q16. What makes us strong and determined?
a. experience. b. Positive thinking. c. Environment d. Self control.
- Q17. Planning concrete goals to be accomplished within a set time frame is known as _____.
a. time management. b. Goal setting. c. Problem solving. d. Stress management.
- Q18. Personal hygiene is important because it helps us _____.
a. stay healthy. b. Look ugly. c. Crazy stress. d. None of these
- Q19. Self management means managing your own emotions, thoughts and _____.
a. attitude b. Image c. Behaviour. d. Control
- Q20. Sometimes bad dressing includes body tattoos, and piercing.
a. true b. False
- Q21. Which are the firms with their headquarters in India?
- Q22. What is the full form of ITES?

- Q23. What does O stand for in BPO?
Q24. What are the companies with their headquarters outside India?
Q25. What is the full form of GIC?
Q26. Write the full form of ECG.
Q27. What is the full form of EEG?
Q28. What is the full form of CAT?
Q29. What is the full form of MRI?
Q30. What does M stand for in BPM?

Happy

dreamstime.

