



SHARDA INTERNATIONAL SCHOOL

SUMMER HOLIDAY HOMEWORK

CLASS VIII

General Instructions:

1. Complete all the work neatly in colored ruled sheets. Put the sheets in sequence in a beautifully decorated handmade folders.
2. Maintain proper handwriting and presentation.
3. **Revise your Periodic Tests 2 syllabus for all subjects thoroughly.**

SUBJECT – ENGLISH

1. Write a descriptive paragraph on:

“My Favourite Place to Visit During Holidays”

2. Prepare and write a short speech (2–3 minutes) on any one topic in 120 words.

- a) Benefits of Reading Books.
- b) Importance of Healthy Food
- c) How Students Can Help Save Water

SUBJECT - HINDI

1. 'अनुशासन का महत्व' अथवा 'ऑनलाइन शिक्षा के लाभ और हानि' विषय पर 100 शब्दों में अनुच्छेद लिखिए।

SUBJECT- MATHEMATICS

General Instructions

- * The given questions are to be done in the Maths homework notebook.
- * Solve all questions neatly and systematically.
- * Show all proper steps and complete working for each answer.
- * Do not write only the final answer.
- * Maintain neat handwriting and proper presentation throughout the work.

Q1-What is the smallest number by which 16562 must be divided to get a perfect square and also find the number whose perfect square is a new number.

Q2-Find the square root of the 84.8241

Q3-Find the side of a cube, if its volume is 0.001728 m^3 .

- Q4-Find the least number which must be added to 417496 to make it a perfect square.
- Q5-What is the smallest number by which 324 must be multiplied so that the product is a perfect square?
- Q6-The length of each side of a cubical box is 3.2m.What is its volume?
- Q7-What is the number of digits in the square root of 5340721.
- Q8-Simplify and write the answer in exponential form: $2a^6 \div (2a^2 \times 2a^4)$, where a is natural number.
- Q9-Simplify: $(3.1)^3 \times (0.1)^2$
- Q10-Express the length 0.00000000236 cm in the standard form.
- Q11-Express the 81 as the square of a natural number.
- Q12-Which is greater? 3^2 or 2^3
- Q13-Find the fifth power of 5.
- Q14-Simplify: $3^0 + 5^0 + 19^0$
- Q15-Three angles of a quadrilateral are 100° , 50° and 50° respectively. Find the measure of the fourth angle.
- Q16-The four angles of a quadrilateral are in the ratio 3 : 5 : 7 : 9. Find the angles of the quadrilateral.
- Q17-Two angles of a quadrilateral are 55° and 175° and the other two angles are equal. What is the measure of each equal angle?
- Q18-The angles of a quadrilateral are $2x + 3^\circ$, $x + 7^\circ$, $3x - 5^\circ$ and $2x + 11^\circ$. Find the measure of each angle of the quadrilateral.
- Q19-Prove that in a parallelogram:
- (i) opposite sides are equal.
- Q20-Construct a kite whose diagonals are of length 12 cm and 16 cm.

● **Mental Math**

- Q1-The unit digit of the cube root of a perfect cube ending in 7 is.....
- Q2-Cube of a natural number of the form $3x$ is divisible by.....
- SeQ3- $1+3+5+7+9+11+13+15+17=(\dots)^2$.
- Q4-The least perfect square which is exactly divisible by 2,4,8 is.....
- Q5-A number added to its square gives 182. The number is.....
- Q6-The cube of 0.3 is.....
- Q7-The cube root of 0.027 is.....
- Q8-The square of 0.3 is.....
- Q9-The square root of 0.7225
- Q10-If $\sqrt{0.09 \times 0.9 \times x} = 0.9 \times 0.09 \times \sqrt{y}$, then find x/y .
- Q11-Simplify $(8^0 - 3^0)(8^0 + 3^0)$

Q12-A figure made up of two isosceles triangles on the opposite sides of the common base is a.....

Q13-The opposite of interior is.....

Q14-Theangles of a parallelogram are supplementary.

Q15-The diagonals of a parallelogram are.....

SUBJECT- SCIENCE

Working Model: Prepare a working model on following topics:

- Tester to test conductivity of a liquid (Roll No. 1 to 4)
- Kaleidoscope (Roll No. 5 to 8)
- States of matter (Roll No. 9 to 12)
- Electroscope(Roll No. 13 to 16)
- Solar system (Roll No. 17 to 20)
- Vacuum cleaner (Roll No. 21 to 24)

Written Work :“This Science Assignment is OPTIONAL. Only interested and willing students may complete it and submit it.”

ASSIGNMENT: SCIENCE

Section A: 1 Mark Questions

- Q1. Which cell organelle is called the “control centre” of the cell?
- Q2. Which microorganism is used for converting milk into curd?
- Q3. Name the force responsible for an object falling towards Earth.
- Q4. Name the device used to measure electric current in a circuit.
- Q5. Name the effect of electric current due to which a filament becomes hot.
- Q6. What is the SI unit of weight?

Section B: 2 Marks Questions

- Q7. A cell is kept in a solution with very high salt concentration. Predict what happens to the cell and why.
- Q8. A student observes that a needle placed near a current-carrying wire deflects. What does this prove?
- Q9. A heavy iron ball and a wooden ball of the same size are dropped in water. One sinks and the other floats. Explain using buoyant force.
- Q10. Why is mass constant everywhere but weight changes from Earth to Moon?
- Q11. A metal wire becomes red hot when current passes through it for a long time. Give one factor that increases the heating effect.
- Q12. Why are decomposers considered essential microorganisms in nature?

Section C: 3 Marks Questions

- Q13. A student observes onion peel cells under a microscope.

- (a) Why does the student add iodine stain?
- (b) Which cell parts become clearly visible after staining?
- (c) Why are onion peel cells considered plant cells?

Q14. A student kept two bread slices: one in an open dry plate and another in a closed moist box.

After 4 days, fungal growth is seen only in the closed box.

Explain the role of moisture, air, and temperature in microorganism growth.

Q15. A wooden block is pushed on a table and stops after moving some distance.

- (a) Name the force responsible for stopping it.
- (b) Mention two ways to reduce this force.
- (c) Mention one situation where this force is helpful.

Q16. A student pushes a cart with a force of 40 N, but the cart moves with constant speed.

- (a) What does this tell about the net force acting on the cart?
- (b) Which force is balancing the applied force?
- (c) Mention one method to increase the speed of the cart.

Q17. A student makes an electromagnet using an iron nail and copper wire.

- (a) What happens if the number of turns is increased?
- (b) What happens if current is increased?
- (c) Why is soft iron used instead of steel?

Section D: 5 Marks Questions

Q18. A student observes two different cells under a microscope. One cell has a clear boundary but no visible nucleus, while the other cell has a clearly visible nucleus.

Answer the following:

- (a) Which type of cell is likely to have no distinct nucleus?
- (b) Name the substance that fills the cell and holds cell organelles.
- (c) Which cell structure controls the entry and exit of substances?
- (d) Why are mitochondria called the “powerhouse of the cell”?
- (e) Write any two differences between plant cell and animal cell based on cell organelles.

Q19. A student has two identical objects: one is made of aluminium and one is made of iron.

Both are dipped in water using a spring balance.

- (a) Which one will show more loss in weight and why?
- (b) State Archimedes’ principle.
- (c) How is this principle used in ships?
- (d) Why does a steel ship float but a steel needle sinks?
- (e) Define buoyant force.

Q20. A student connects a circuit with a battery, key, and nichrome wire. The bulb glows dimly but the nichrome wire becomes hot.

- (a) Explain why nichrome heats up strongly.
- (b) Name the effect of current responsible.
- (c) Give two appliances based on this effect.
- (d) If a fuse wire melts, what does it indicate?
- (e) Why is a fuse always connected in series.

SUBJECT – SANSKRIT

❖ पाठ 5 के सभी श्लोक याद करें।

राजन् शङ्कर, अस्मद् रूप, कृ धातु के रूप (पाँचों लकार) और क्त क्तवतु प्रत्यय सभी अवश्य याद करें।

SUBJECT – SOCIAL SCIENCE

Activity – Chart Making

Topic: Election Process in India

- Students need to prepare a colourful flowchart on the Election Process in India. The chart should include proper sequence, headings, arrows, and creative decoration with colours and illustrations.

Flowchart Suggestion:

Voter Registration → Election Campaign → Voting Day → Counting of Votes → Declaration of Results → Formation of Government

