

Adarsh Public School
Summer Holiday Home work
Class – 9th

• **SCIENCE**

- 1) Draw the diagram of animal cells, plant cells, 2-2 diagrams of eukaryotic and prokaryotic cells, mitochondria, mitosis and meiosis.. also write about them...
- Holiday Home Work

• **S.S.T**

1. Geography :- Subject Activity 1 and 2, Page no 1- 6 (in lab manual).
2. History :- Subject Activity 1 (Page no. 34 – 38).
3. Civics :- Subject Activity 1, Page no. 56 - 59 (in lab manual)
4. Economics :- Subject Activity Page no. 78 - 84 (in lab manual)
5. Do 20 multiple choice questions from ch 1 and 2 (Geography, history, civics, economics)

• **ENGLISH**

- 1) Do any five unseen passages with questions and Answers.
 - 2) Write the summaries of the following chapters :
 - a) The fun they had
 - b) The adventure of Toto
 - c) The Lost child
 - d) Iswaran the story teller.
 - e) The poem 'Wind'
 - 3) Any three formal and informal letters in your school notebook.
 - 4) Prepare a English file that includes the Biographies of any two writers and poets with pictures.
 - 5) Complete your school notebook work.
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• **Hindi**

- 1) परियोजना कार्य :- परियोजना (प्रोजेक्ट) कार्य हेतु चयनित विषय
 - क) लेखक प्रेमचंद जी
 - ख) कवि कबीरदास जीपरियोजना कार्य हेतु कम मुख्य पृष्ठ घोषणा पत्र, आभार पत्र, अनुक्रमणिका विषय सूची), लेखक फोटोग्राफ
- 2) सकेत बिंदु -

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| (क) जीवन परिचय | (ख) पारिवारिक पृष्ठभूमि व गतिविधिया |
| (ग) हिंदी साहित्य में स्थान | (घ) साहित्यिक पृष्ठभूमि व साहित्यिक विशेषताए |
| (ङ) हिंदी साहित्य में स्थान | (च) सम्मान व उपलब्धिया |
| (छ) रचनाए | (ज) पाठ्यक्रम में वर्णित रचना के प्रमुख अंश |
| (झ) निष्कर्ष या उप संहार | |

• **महत्वपूर्ण बिंदु**

- (1) परियोजना कार्य स्व लिखित एवं क्रम अनुसार होना चाहिए।
- (2) वर्णित विषय वस्तु अनुसार फोटोग्राफ लगाना अनिवार्य है।
- (3) परियोजना कार्य 15 से 20 पेज में पूर्ण होना चाहिए ।
- (4) लिखावट सुंदर एवं स्पष्ट होना चाहिए ।

• COMPUTER

1) Answer the following:

- Q1. Write and explain the strength of computer.
- Q2. Write and explain the weakness of computer.
- Q3. Explain Hardware and Software.
- Q4. List different application area of Computer.
- Q5. Give the name of different Mobile Computing Devices.
- Q6. How computer helps us in our routine life.
- Q7. Explain following terms- CPU and Motherboard
- Q8. What is role of Operating System? Give the name of two operating system.
- Q9. What do you mean by term platform?
- Q10. Define Server and workstation.
- Q11. Differentiate between Intranet and Internet.
- Q12. What is www?

• MATHS

1) Write about any two Indian Mathematicians and their contributions in the field of Mathematics. Also paste the pictures of these mathematicians.

2) Mathematics Assignment

CONCEPT: Representation of rational/irrational numbers on number line.

- i) Represent $\sqrt{5}$ on number line..
- ii) Find 3 rational and 3 irrational numbers between 2 and 3 .
- iii) Find 4 rational and 4 irrational numbers between 2.2 and 2.3 .
- iv) Is 0 a rational number ?Can you write in the form of p/q form.

3) Topic: Polynomials

- Q1. If $(x + k)$ is a factor of $2x^2 + 2kx + 5x + 10$, find k.
- Q2. Compute the value of $9x^2 + 4y^2$ if $xy = 6$ and $3x + 2y = 1$
- Q3. Find the value of the polynomial $5x - 4x^2 + 3$ at $x = 2$ and $x = -1$.
- Q4. Find the value of $x^3 + y^3 + z^3 - 3xyz$ if $x^2 + y^2 + z^2 = 83$ and $x + y + z = 15$
- Q5. If $(x - 1/x) = 4$, then evaluate $(x^2 + 1/x^2)$ and $(x^4 + 1/x^4)$.
- Q6. Find the values of a and b so that $(2x^3 + ax^3 + x + b)$ has $(x + 2)$ and $(2x - 1)$ as factors.
- Q7. Factorise $x^2 - 1 - 2a - a^2$