

J.R.M. INTERNATIONAL SCHOOL

Achhnera Road, Sahai, Bichpuri, Agra

Session 2024-25

Holiday Homework

Class – 12th

1. English:

1. **Corruption** – The biggest impediment in the progress of Nation. (Roll no. 01 to 10)
2. **Pollution** – Way to control it. (Roll no. 11 to 20)
3. Importance of mother tongue (Roll no. 21 to 30)
4. Lost Childhoods (Roll no. 31 to 40)
5. Film city department (Roll no. 41 to 50)
6. Care of Elderly (Roll no. 51 to 60)
7. Education is empowerment (Roll no. 61 to 70)
8. Modern Literature (Roll no. 71 to 80)
9. Teachings of Vivekanand (Roll no. 81 to 90)
10. Ban Poly Bags (Roll no. 91 to 93)

Note: – Project file should be hand written, well presented and pictorial.

Project file contents:

1. Index
2. Acknowledgement
3. Objectives
4. About the topic
5. Conclusion

2. Mathematics:

- Do all examples of chapter – 1, 2 and 3 from NCERT book and R. D. Sharma book.
- Make a project file on following topics, According to their roll numbers.

Topic 1. Make a chart of the formula of application of calculus in file. (Roll no. 01 to 10)

Topic 2. Application of conic sections, vectors and 3d-geometry. (Roll no. 11 to 20)

Topic 3. History of Indian Mathematicians Aryabhata. (Roll no. 21 to 30)

Topic 4. Make a chart of formula of matrices and determinants, also write their applications. (Roll no. 31 to 40)

Topic 5. Graph of all trigonometric functions, inverse trigonometric functions along with their domain and range. (Roll no. 41 to 50)

Topic 6. History of Indian Mathematician Ramanujan. (Roll no. 51 to 60)

Topic 7. Graph on types of functions such as : Identity function, constant function, Modulus function, Signum function, Greatest integer function, polynomials function, square root function, signum function, cube root function with their domain and range. (Roll no. 61 to 70)

Topic 8. Mathematics and Arts. (Roll no. 71 to 80)

Topic 9. History of Indian Mathematician Bhaskaracharya. (Roll no. 81 to 90)

Topic 10. Mathematics and Music. (Roll no. 91 to 93)

3. Physics:

Topic 1. To study various factors on which the internal resistance / EMF of a cell depends.

Topic 2. To study the variations in current flowing in a circuit containing an LDR because of a variation in (a) the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance). (b) the distance of a incandescent lamp (of fixed power) used to 'illuminate' the LDR.

Topic 3. To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an adjustable object needle.

Topic 4. To investigate the relation between the ratio of (i) output and input voltage and (ii) number of turns in the secondary coil and primary coil of a self-designed transformer.

Topic 5. To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids.

Topic 6. To estimate the charge induced on each one of the two identical Styrofoam (or pith) balls suspended in a vertical plane by making use of Coulomb's law.

Topic 7. To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in series with a resistor / (bulb) in a circuit fed up by an A. C. source of adjustable frequency.

Topic 8. To study the earth's magnetic field using a compass needle-bar magnet by plotting magnetic field lines and tangent galvanometer

4. Chemistry:

Topic 1. Study of presence of oxalate ions in guava fruit at different stages of ripening.

Topic 2. Study of quantity of casein present in different samples of milk.

Topic 3. Preparation of Soyabean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, taste etc.

Topic 4. Study of the effect potassium bisulphate as food preservation under various conditions.

Topic 5. Study of digestion of starch by salivary amylase and effect of pH and temperature on it.

Topic 6. Comparative study of the rate of formation of wheat flour, gram flour, potato juice carrot juice.

Topic 7. Extraction of essential oil present in aniseed, carom, cardamom.

Topic 8. Study of common food adulterates in fat oil, butter sugar, turmeric powder chili powder and pepper.

Roll No.	Student's Name	Topics (Physics & Chemistry)	Roll No.	Student's Name	Topics (Physics & Chemistry)
01	Abhay Pratap Singh	Topic – 1	41	Rishav Singh	Topic – 1
02	Abhishek Narwar	Topic – 2	42	Rudra Pratap Singh	Topic – 2
03	Aditya Agarwal	Topic – 3	43	Sachin Kumar	Topic – 3
04	Aditya Rajput	Topic – 4	44	Sachin Rana	Topic – 4
05	Akash Kumar	Topic – 5	45	Shammi Yadav	Topic – 5
06	Akash Solanki	Topic – 6	46	Shivam Baghel	Topic – 6
07	Aman Solanki	Topic – 7	47	Shivani Narwar	Topic – 7
08	Amit Solanki	Topic – 8	48	Shubham Singh	Topic – 8
09	Anant Srivastava	Topic – 1	49	Sonam Rathore	Topic – 1
10	Anuj	Topic – 2	50	Suraj	Topic – 2
11	Ankit Shakya	Topic – 3	51	Tinku	Topic – 3
12	Anshika Kholiya	Topic – 4	52	Utkarsh Gupta	Topic – 4
13	Apoorv Singh	Topic – 5	53	Vanshika Solanki	Topic – 5
14	Archit Upadhyay	Topic – 6	54	Vinay Narwar	Topic – 6
15	Arpit Raj	Topic – 7	55	Vineet Singh	Topic – 7
16	Atul Kumar	Topic – 8	56	Vishesh Singh	Topic – 8
17	Avika Gautam	Topic – 1	57	Vivek Chaudhary	Topic – 1
18	Ayush Gautam	Topic – 2	58	Vivek Dhakarey	Topic – 2
19	Bhoomi Singh	Topic – 3	59	Vashman Solanki	Topic – 3
20	Dinanjay Singh Solanki	Topic – 4	60	Abhishek	Topic – 4
21	Drashit Pathak	Topic – 5	61	Aishwarya Rajawat	Topic – 5
22	Kanak Solanki	Topic – 6	62	Anushka Goutam	Topic – 6
23	Kartik Kumar	Topic – 7	63	Arpit Kumar	Topic – 7
24	Krishna Sikarwar	Topic – 8	64	Ashutosh Kushwah	Topic – 8
25	Krishnaveer Singh So.	Topic – 1	65	Avni Jain	Topic – 1
26	Manya Mathuriya	Topic – 2	66	Awantika Solanki	Topic – 2
27	Mohammad Faiz	Topic – 3	67	Bhoomi Katara	Topic – 3
28	Mohit Gola	Topic – 4	68	Dev Solanki	Topic – 4
29	Nitin Kumar	Topic – 5	69	Divya Tripathi	Topic – 5
30	Prabha	Topic – 6	70	Harshit Goswami	Topic – 6
31	Pragati Tiwari	Topic – 7	71	Jyoti Verma	Topic – 7
32	Prashant Sikarwar	Topic – 8	72	Komal	Topic – 8
33	Praveen Solanki	Topic – 1	73	Manish Rajput	Topic – 1
34	Prince Parihar	Topic – 2	74	Mohmmad Rashid	Topic – 2
35	Prince Sharma	Topic – 3	75	Mradul Kant	Topic – 3
36	Priyansh Sharma	Topic – 4	76	Muhammad Owais	Topic – 4
37	Priyanshu Parihar	Topic – 5	77	Payal Agarwal	Topic – 5
38	Priyanshu Pathak	Topic – 6	78	Priyanshi Solanki	Topic – 6
39	Rahul Kumar	Topic – 7	79	Rajini Solanki	Topic – 7
40	Raoyal Rasor	Topic – 8	80	Raman Kushwah	Topic – 8

Roll No.	Student's Name	Topics (Physics & Chemistry)	Roll No.	Student's Name	Topics (Physics & Chemistry)
81	Sameer Singh	Topic – 1	88	Sulabh Mathur	Topic – 8
82	Sandeep Rana	Topic – 2	89	Sharad Verma	Topic – 1
83	Sandhya Solanki	Topic – 3	90	Bhanu Pratap Si. Jadon	Topic – 2
84	Sanskriti Gupta	Topic – 4	91	Anmol Yadav	Topic – 3
85	Shreya Agarwal	Topic – 5	92	Ayush Mittal	Topic – 4
86	Siddharth Burman	Topic – 6	93	Krishna Chauhan	Topic – 5
87	Sneha Singh	Topic – 7			

5. Biology:

Topic 1. To study the impact of global warming on the environment.

Topic 2. To study the human reproductive cloning and biotechnology.

Topic 3. To study the classification of Drug Addiction.

Topic 4. To study the development of the Human embryogenesis.

Topic 5. To study DNA finger printing principles, Methods and Application.

Topic 6. To study the Agricultural waste water treatment.

Topic 7. To study the Transgenic Animal, Production and Application.

Topic 8. To study the effect of Antibiotics on the Micro Organisms.

Topic 9. To study on the infertility and its causes and treatment.

Topic 10. The study the Method to Improvements of the Biogas Productions.

Topic 11. To study the harmful effect of the mobile radiation on human body.

Roll No.	Student's Name	Topics (Biology)	Roll No.	Student's Name	Topics (Biology)
01	Abhishek	Topic – 1	17	Mradul Kant	Topic – 6
02	Aishwarya Rajawat	Topic – 2	18	Muhammad Owais	Topic – 7
03	Anushka Gautam	Topic – 3	19	Payal Agarwal	Topic – 8
04	Arpit Kumar	Topic – 4	20	Priyanshi Solanki	Topic – 9
05	Ashutosh Kushwah	Topic – 5	21	Ragini Solanki	Topic – 10
06	Avika Gautam	Topic – 6	22	Raman Kushwah	Topic – 11
07	Avani Jain	Topic – 7	23	Sameer Singh	Topic – 1
08	Awantika Solanki	Topic – 8	24	Sandeep Rana	Topic – 2
09	Bhoomi Katara	Topic – 9	25	Sandhya Solanki	Topic – 3
10	Dev Solanki	Topic – 10	26	Sanskriti Gupta	Topic – 4
11	Divya Tripathi	Topic – 11	27	Shammi Yadav	Topic – 5
12	Harshit Goswami	Topic – 1	28	Shreya Agarwal	Topic – 6
13	Jyoti Verma	Topic – 2	29	Siddharth Burman	Topic – 7
14	Komal Sengar	Topic – 3	30	Sneha Singh	Topic – 8
15	Manish Rajput	Topic – 4	31	Sulabh Mathur	Topic – 9
16	Mohammad Rashid	Topic – 5			