




**DAV PUBLIC SCHOOL, JAMALPUR.**  
**HOLIDAY HOMEWORK FOR SUMMER VACATION (2026-27)**

Class: XII COMMERCE

Sl. No.	SUBJECT	Homework/Assignment	Subject teacher name & signature
1	English	<p>1. <b>Notice Writing</b>:- You are the Cultural Secretary of your school. Write a notice in about 50 words informing students about an Inter-School Debate Competition to be held next week.</p> <p>2. <b>Notice Writing</b>:- Write a notice for the school notice board informing students about a lost school bag found in the library.</p> <p>3. <b>Invitation Writing</b>:- Design a formal invitation inviting parents to the Annual Function of your school.</p> <p>4. <b>Invitation Writing</b>:- Write an informal invitation to your friend inviting him/her to your birthday party.</p> <p>5. <b>Job Application</b>:- You are Riya/Rohan. You saw an advertisement for the post of Computer Operator in a company. Write a job application with bio data in response to the advertisement.</p> <p>6. <b>Article Writing</b>:- Write an article in 120–150 words on the topic “Importance of Discipline in Student Life.”</p>	D.K.Mishra 
2	Hindi	<p>आत्मपरिचय, जल्दी जल्दी ढलता है - हरिवंशराय बच्चन भक्तिन - महादेवी वर्मा सिल्वर वैडिंग - मनोहर श्याम जोशी जनसंचार की विधाएं</p> <p>पतंग आलोक- धन्वा बाजार दर्शन जैनेंद्र पत्रकारिता के विविध आयाम इकाई 1</p>	P.K.Mishra 
3	Applied Maths	<p>Modular Arithmetic</p> <ol style="list-style-type: none"> <li>Evaluate the following:           <ol style="list-style-type: none"> <li><math>43 \pmod{6}</math></li> <li><math>97 \pmod{5}</math></li> <li><math>-17 \pmod{4}</math></li> <li><math>(57 - 42) \pmod{11}</math></li> <li><math>(62 + 53) \pmod{7}</math></li> <li><math>(9 \times 8) \pmod{5}</math></li> </ol> </li> <li>Find <math>(576 + 789) \pmod{9}</math>.</li> <li>Find <math>(482 \times 813) \pmod{7}</math>.</li> <li>Find the remainder when <math>987 + 876 + 765 + 654 + 543 + 432 + 321 + 210</math> is divided by 6.</li> <li>Find the remainder when <math>862 \times 783 \times 671 \times 549 \times 411 \times 395 \times 217</math> is divided by 8.</li> <li>Find the last two digits of the product <math>4895 \times 6789</math>.</li> <li>Find the last three digits of the product <math>2345 \times 4567</math>.</li> <li>Find the last two digits of the product <math>123 \times 234 \times 345</math>.</li> <li>Find the value of <math>6^{12} \pmod{7}</math>.</li> <li>Find the last digit of <math>17^{17}</math>.</li> <li>Find the last two digits of <math>2^{20}</math>.</li> <li>It is 7:00 P.M. currently. What time (in A.M. or P.M.) will it be in next 1500 hours?</li> </ol> <p>Pipes and Cisterns</p> <ol style="list-style-type: none"> <li>Two pipes A and B can fill a tank in 20 hours and 16 hours respectively. Pipe B alone</li> </ol>	D.N.Dubey 




- is kept open for  $\frac{1}{4}$ th of time and both pipes are kept open for the remaining time. Find the time required to fill the tank.
- Two pipes A and B can fill a tank in  $\frac{1}{2}$  hour and 1 hour respectively. A pipe C can empty the tank in 2 hours. If all three pipes are opened simultaneously, how long does it take to fill the empty tank?
  - Two pipes A and B can fill a tank in 20 minutes and 60 minutes respectively. There is an outlet pipe C at the bottom of the tank. If all the three pipes are opened together it took 40 minutes to fill the tank. Find the time taken by outlet C to empty the full tank working alone.
  - Three pipes A, B and C can fill a tank in 72 minutes. If all the three pipes remain opened for 36 minutes and then pipe C is closed, it took 1 hour more to fill the tank by pipes A and B. Find the time required to fill the tank by pipe C alone.
  - Two pipes P and Q can fill a tank in 60 minutes and 30 minutes respectively. Third pipe R drains 5 litres of water per minute. If all the three pipes are opened it took 2 hours to fill the tank. Find the capacity of the tank.
  - A tank is filled by three pipes with uniform flow. The first two pipes operating simultaneously fill the tank in the same time during which the tank is filled by third pipe alone. The second pipe fills the tank 5 hours faster than the first pipe and 4 hours slower than the third pipe. Find the time required by first pipe to fill the tank alone.
  - Three pipes A, B and C can fill a tank in 5 hours working simultaneously. The pipe C is twice as fast as B and B is twice as fast as A. How much time will pipe A alone take to fill the tank?

#### Boats and Streams

- A boat rows a distance of 12 km upstream at 13 km/h and covers the same distance downstream at 7 km/h. Find the average speed of the boat.
- A man can row at 8 km/h in still water. If the speed of current is 2 km/h and he takes 4 hours to row to a place and return back, how far is the place?
- The speed of a boat in still water is 12 km/h and the speed of the stream is 2 km/h. A person rows to a place at a distance of 70 km and returns back to the starting point. Find the total time taken by him.
- A boat goes 30 km downstream and comes back to the starting point in 4 hours 30 minutes. If the speed of boat in still water is 15 km/h, find the speed of the stream.
- A boat takes 90 minutes less to travel 36 km downstream than to travel the same distance upstream. If the speed of the boat in still water is 10 km/h, find the speed of the stream.
- A man rows to a place at a distance of 48 km and returns back in 14 hours. He finds that he can row 4 km with the stream in the same time as 3 km against the stream. Find the speed of the stream.

#### Mixtures and Alligation

- Three varieties A, B and C of rice are mixed together in the ratio 4 : 1 : 1 respectively. The cost price of rice B is ₹82 per kg and that of rice C is ₹90 per kg. If the price of the mixture is ₹94 per kg, then find the price per kg of rice A.
- A vessel contains a mixture of two liquids X and Y in the ratio 3 : 5. 8 litres of mixture are drawn off from the vessel and 8 litres of liquid X is filled in the vessel. If the ratio of liquids X and Y now becomes 7 : 10, how many litres of liquids X and Y were contained by the vessel initially?
- Two vessels P and Q contain milk and water in the ratio 5 : 3 and 13 : 3 respectively. In what ratio should mixtures from two vessels be mixed to get a new mixture containing milk and water in the ratio 3 : 1 respectively?
- Two vessels A and B contain milk and water in the ratio 3 : 2 and 7 : 13 respectively. They are mixed in the ratio 2 : 3. Find the ratio of milk and water in the final mixture.
- A milkman has two cans. First containing 75% milk and rest water, whereas second containing 50% milk and rest water. How much mixture should he mix from each can so as to get 20 litres of mixture, such that ratio of milk and water is 5 : 3 respectively?
- In what ratio must a person mix two sugar solutions of 30% and 50% concentration respectively so as to get a solution of 45% concentration?
- A container contains 40 litres of milk. From this container 4 litres of milk was taken out and replaced by water. This process was repeated two more times. How much milk is

		<p>now left in the container?</p> <p>8. From a container containing 50 litres of milk, 8 litres of milk was taken out and replaced by water. This process is repeated two more times. How much milk is now left in the container?</p> <p>9. From a container full of alcohol 6 litres of alcohol was drawn out and replaced by water. This process is repeated one more time. The ratio of the quantity of alcohol and water left in the container is 9 : 16. How many litres of alcohol did the container hold originally?</p>	
4	Accountancy	<p>1. Revise chapter 1 and 3 for P.T 1 exam.</p> <p>2. Collect and write in a file details on partnership Act 1932.</p>	S.Maitra 
5	BST	<p>Draw in a chart paper showing functions of management</p> <p>Do 20 MCQ from 1st and 2nd chapter</p> <p>Do importance of coordination</p>	S.Y. Mallick 
6	Economics	<p><b>Economics Project Work</b></p> <p><b>Instructions for Project File</b></p> <ul style="list-style-type: none"> <li>• Make the project file neat, clean and attractive.</li> <li>• Write all topics in detail with proper explanation.</li> <li>• Use colorful headings and subheadings.</li> <li>• Add diagrams, charts or examples wherever needed.</li> <li>• Maintain good handwriting and proper presentation.</li> <li>• Decorate the cover page creatively.</li> </ul> <p><b>Project Topics</b></p> <ol style="list-style-type: none"> <li>1. Central Bank and its functions</li> <li>2. Role of banks in the Indian economy</li> <li>3. Credit Creation Process</li> <li>4. Government Budget &amp; its Components</li> <li>5. Exchange Rate Systems</li> <li>6. Foreign Exchange Markets</li> <li>7. Balance of Payments</li> <li>8. GST</li> <li>9. Demonetization</li> <li>10. Poverty/Unemployment in India</li> <li>11. Banking Sector Reforms</li> <li>12. Tax Reforms</li> <li>13. Import Substitutions vs Export Promotion</li> <li>14. A new approach – Sustainable Development</li> <li>15. Comparative study of India and China's Economy</li> <li>16. Indian Economy on the eve of Independence</li> <li>17. Pre Independence role of Railways – A critical analysis</li> <li>18. RBI's policies to curb inflation and appreciate currency value</li> <li>19. Rural Development – Factors and Govt. Initiatives</li> <li>20. Growth of Education sector in India</li> <li>21. Growth of Health sector in India</li> <li>22. Cooperatives – Case Study</li> <li>23. Self Help Groups – Case study</li> <li>24. Aggregate Demand and its Component</li> <li>25. Short run Equilibrium Output</li> </ol>	Ajeet Pal 

7	IP	1. Write down five programs on the python series using list and dictionary. 2. Write down programs on data frame using list series and dictionary.	Mukesh Sinha <i>M.Sinha</i>
8	PHY. EDU	Yoga as a Preventive Measure for Lifestyle Diseases 1. Obesity 2. Diabetes 3. Asthma 4. Hypertension 5. Back Pain & Arthritis Write down at least three asanas or pranayama exercises for each of these that help maintain a healthy lifestyle. Health and physical Education	Mithun Kumar <i>Mithun</i>

*[Signature]*  
Class In-charge

*[Signature]*  
Co-ordinator

*[Signature]*  
14/05/26  
Principal