



# PATEL INTER COLLEGE

CIVIL LINES, FATEHPUR, UTTAR PRADESH



## SUMMER HOLIDAY HOME WORK

NAME:.....

CLASS:.....

ROLL NO.....



# SHIVAJI GROUP OF INSTITUTIONS

## SUMMER VACATION WORK (2025-26)

### CLASS- 12 E

| Subject   | Holiday Work  |   |                             |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |
|-----------|---|---|-----------------------------|----------|---|--|----------------------------|---|---|-----------------------------|---|--|------------------------------|---|--|------------------------------|
| Hindi     | 1. <u>अनेकार्थी शब्द लिखिए</u> कनक , कर , अम्बर , अर्क , द्विज , पतंग , असि , हर , हार , कौशिक , अक्षत  <br>2. अपना कुटीर उद्द्योग प्रारम्भ करने के हेतु किसी बैंक प्रबंधक को ऋण प्रदान करने हेतु एक पत्र लिखिए  <br>3. निबन्ध लिखिए – (१) नई शिक्षा नीति<br>(२) भारत में बेरोजगारी की समस्या व समाधान  |   |                             |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |
| English   | 1. Write the articles on the following topic-<br>I. Terrorism and its consequences .<br>II. The impact of social media in youngster<br>2. Write the summery of the following poems.<br>I. My mother at sixty – six<br>II. Keeping Quiet<br>3. Write and learn 40 idioms and make sentences .  |   |                             |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |
| Math      | Draw the graph of all inverse trigonometric functions . ( On chart Paper )  |   |                             |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |
| Physics   | 1. Explain sign convention used for lenses and mirrors. ( Roll No. 1 To 9 )<br>2. Draw ray diagram of astronomical telescope and reflecting telescope. (Roll No. 10 To 18)<br>3. Define visual angle and sketch diagram of compound microscope. ( Roll No. 19 To 27 )<br>4. Derive expression of radius , velocity and energy of electron in nth orbit. (Roll No. 27 To 35 )<br>5. Sketch diagram of hydrogen spectrum. (Roll No. 36 To 45 )<br>6. Find 1st and last wavelength of all series in hydrogen spectrum. (Roll No. 46 To 54 )<br>7. Explain working of Nuclear Reactor. ( Roll No 55 To 60 )   |   |                             |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |
| Chemistry | Make an assignment on following topic in A4 sheet-  |   |                             |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |
|           | <table><tr><th>S.NO.</th><th>Investigatory Project</th><th>Roll No.</th></tr><tr><td>1</td><td>Check the solubility of following compound in water-<br/>CaCO<sub>3</sub>, NaCl, sucrose, mustard oil</td><td>(1,3,5,7,9,11,32,34,35,38)</td></tr><tr><td>2</td><td>a) What is Nessler reagent &amp; write down its use with reaction.<br/>b) What is esterification reaction? How it is use to identify organic compound?</td><td>(2,4,6,8,12,22,24,26,28,30)</td></tr><tr><td>3</td><td>Make a chart to explain working of electro chemical cell</td><td>(13,10,15,17,19,21,20,23,14)</td></tr><tr><td>4</td><td>Checking the purity of Condensed Milk, Cheese and hard water</td><td>(25,27,29,31,33,16,18,39,40)</td></tr></table> | S.NO.   | Investigatory Project       | Roll No. | 1 | Check the solubility of following compound in water-<br>CaCO <sub>3</sub> , NaCl, sucrose, mustard oil | (1,3,5,7,9,11,32,34,35,38) | 2 | a) What is Nessler reagent & write down its use with reaction.<br>b) What is esterification reaction? How it is use to identify organic compound? | (2,4,6,8,12,22,24,26,28,30) | 3 | Make a chart to explain working of electro chemical cell | (13,10,15,17,19,21,20,23,14) | 4 | Checking the purity of Condensed Milk, Cheese and hard water | (25,27,29,31,33,16,18,39,40) |
|           | S.NO.   | Investigatory Project   | Roll No.                    |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |
|           | 1   | Check the solubility of following compound in water-<br>CaCO <sub>3</sub> , NaCl, sucrose, mustard oil  | (1,3,5,7,9,11,32,34,35,38)  |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |
|           | 2   | a) What is Nessler reagent & write down its use with reaction.<br>b) What is esterification reaction? How it is use to identify organic compound? | (2,4,6,8,12,22,24,26,28,30) |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |
| 3         | Make a chart to explain working of electro chemical cell  | (13,10,15,17,19,21,20,23,14)  |                             |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |
| 4         | Checking the purity of Condensed Milk, Cheese and hard water  | (25,27,29,31,33,16,18,39,40)  |                             |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |
|           |   |   |                             |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |
|           |   |   |                             |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |
|           |   |   |                             |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |
| Biology   | Make a project file ( Draw a neat and labelled diagram on Art Sheet and Write 8-10 characteristics features on Comment Sheet of each of the following .)<br>Bat, Hippocampus , Starfish , Scoliodon , Flatworms , Pigeon , Rabbit , Octopus , Frog , Leech , Cockroach , Physalia , Lizard , Ascaris , Amoeba , Pila , Sycon , T.S of Testis of Mammal , T.S of Ovary of Mammal , T.S. of Mammalian Blastula , House Sparrow , Crow , Earthworm , Centipede , Scorpion , Squirrel , Rat , Grasshopper , Labeo rohita , Whale , Kangaroo , Rat , Camel .   |   |                             |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |
| Computer  | <div>➤ Define OOP’s Features in brief.<br/>( OOP’s के सभी तत्वों का वर्णन कीजिये )</div> <div>➤ Define Inheritance with its types and example .<br/>( इन्हेरिटेंस क्या है , यह कितने प्रकार के होते हैं , प्रत्येक को उदाहरण सहित बताइए )</div> <div>➤ Define Stream in java with its types.<br/>(जावा में स्ट्रीम क्या होती है , यह कितने प्रकार की होती है , उदाहरण सहित बताइए )</div> <div>➤ Differentiate between Method and Constructor .<br/>( मैथड तथा कंस्ट्रक्टर में क्या अंतर है स्पष्ट कीजिये )</div> <div>➤ Define Method Overloading with a suitable example .<br/>( मैथड ओवरलोडिंग क्या है एक उदाहरण देकर बताइए )</div>   |   |                             |          |   |  |                            |   |   |                             |   |  |                              |   |  |                              |