# SHIVAJI INTER COLLEGE

## KESHAV NAGAR, KANPUR

# 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.**अनेकार्थी शब्द लिखिए** कनक ,कर , अम्बर , अर्क , द्विज , पतंग , असि , हर , हार , कौशिक , अक्षत |<br>2.अपना कुटीर उद्द्योग प्रारम्भ करने के हेतु किसी बैंक प्रबंधक कों ऋण प्रदान करने हेतु एक पत्र लिखिए |<br>3.निबन्ध लिखिए – (१) नई शिक्षा नीति<br>(२) भारत में बेरोजगारी कि 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-

| S.NO. | Investigatory Project | Roll No. |
|---|---|---|
| 1 | Check the solubility of following compound in water- $CaCO_3$, 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) |

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| 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 | ➤ Define OOP's Features in brief.<br>  ( OOP's के सभी तत्वों का वर्णन कीजिये )<br>➤ Define Inheritance with its types and example .<br>  ( इन्हेरिटेंस क्या है , यह कितने प्रकार के होते हैं , प्रत्येक कों उदाहरण सहित बताइए )<br>➤ Define Stream in java with its types.<br>  (जावा में स्ट्रीम क्या होती है , यह कितने प्रकार कि होती है , उदाहरण सहित बताइए )<br>➤ Differentiate between Method and Constructor .<br>  ( मैथड तथा कंस्ट्रक्टर में क्या अंतर हा स्पष्ट कीजये )<br>➤ Define Method Overloading with a suitable example .<br>  ( मैथड ओवरलोडिंग क्या है एक उदाहरण देकर बताइए |