



# VIKAS BHARTI SCHOOL, GORAKHPUR

## HOME ASSIGNMENTS FOR SUMMER VACATION - 2023

### FORM -A (Science)

#### **English Language:**

Write a composition (300- 350 words) on each of the following subjects:

1. Write an original story in which two children and their school teacher are the main characters.
2. Imagine a situation where you get an opportunity to change one thing in your school. What would it be? Why do you want to change it? How would you bring about the change?
3. School examinations do not test intelligence? Express your views either for or against
4. You are a regular visitor to your school library. Describe your library. Give details of familiar sights. Why is this place so important?

#### **English Literature:**

1. Make a **Critical appreciation** of the play *The Merchant of Venice* with reference to Act III Scene I & II.

#### **Hindi:**

1. "किसी व्यक्ति के सपने उसके लिए बहुत महत्त्व रखते हैं। हर व्यक्ति उसे पूरा करने की भरपूर कोशिश करता है। कथन के सन्दर्भ में अपने सपनों का उल्लेख कीजिए।
2. विद्यार्थी जीवन में समय व परिश्रम का विशेष महत्त्व है। अपने शब्दों में समझाइए।
3. "बड़े घर की बेटा" व "भीड़ में खोया आदमी" पाठ का सारांश लिखिए।
4. नया रास्ता उपन्यास के माध्यम से लेखिका सुषमा अग्रवाल ने अपने प्रमुख पात्र मीनू के द्वारा समाज को क्या सन्देश देना चाहा है? समझाइए।
5. कोई एक मौलिक कहानी लिखिए। जिससे कोई सीख मिलती हो।
6. किन्हीं बीस (20) शब्दों के पांच पांच पर्यायवाची शब्द लिखिए।
7. किन्हीं बीस (20) शब्दों के विलोम शब्द लिखिए।
8. किन्हीं बीस (20) मुहावरों का अर्थ लिखकर उन्हें वाक्य में प्रयोग कीजिए।
9. किन्हीं बीस (20) एक वचन वाक्यों को बहुवचन में बदलकर लिखिए।
10. किन्हीं बीस (20) वर्तमान काल के वाक्यों को भूतकाल में बदलकर लिखिए।

#### **History & Civics:**

1. Prepare a report on the contributions of the following agencies of the United Nations:
  - a) UNESCO
  - b) UNICEF
  - c) WHO
  - d) ILO
  - e) UNDP
  - f) FAO

#### **Geography:**

Make a project on any one from the following topics:

1. Visit a water treatment plant or sewage treatment or garbage dumping or vermin composting sites in the locality and study their working.
2. Wildlife conservation efforts in India
3. Industrialization in India
4. Development of tourism in India
5. Transport in India

#### **Mathematics:**

1. Solve ten- ten questions from the following chapters-
  - i. GST
  - ii. Banking
  - iii. Shares and dividends
  - iv. Matrices
  - v. Trigonometry

2. Make a formula chart on Mensuration and trigonometry.
3. Describe about an Indian mathematician and briefly explain about his main invention.

### **Physics:**

1. Prepare an Impressive project (20-25 pages) on any one topic of your syllabus as per ICSE guidelines.
2. Read, all questions & solved examples of Text book up to the taught portion and put tick or cross if understood.

### **Chemistry:**

Execute *any one* project (*At least 35– 40 pages*) creatively. Following is the list of projects:

- i. **Metallurgy** (Terminology, Processes involved during metallurgy, Metallurgy of *Aluminium, Iron, Zinc*).
- ii. **Electrolysis** (Terminology, Electrolysis of common electrolytes, Applications of electrolysis).
- iii. **HCl**: Lab preparation, industrial preparation, physical properties, chemical properties, tests and uses.
- iv. **HNO<sub>3</sub>**: Lab preparation, industrial preparation, physical properties, chemical properties, tests and uses.
- v. **H<sub>2</sub>SO<sub>4</sub>**: Industrial preparation, physical properties, chemical properties, tests and uses.
- vi. **NH<sub>3</sub>**: Lab preparation, industrial preparation, physical properties, chemical properties, tests and uses.
- vii. **Preparation, Identification and Uses of different Gases** (Such as *SO<sub>2</sub>, Cl<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>, HCl, NH<sub>3</sub>, NO<sub>2</sub> and CO<sub>2</sub>*)

### **Biology:**

Make a well organized project on any one of the following topic

1. Circulatory System
2. Excretory System
3. Nervous System
4. Nervous System
5. Sense Organs
6. Endocrine System
7. Reproductive System

### **Computer Applications:**

1. Prepare a chart of library functions, string functions with examples.

### **Physical Education:**

Complete your practical file & make a project on any one game & sports of your interest based on ICSE prescribed syllabus.

### **Environmental applications:**

You are recommended to complete two case studies and one project from the list given below;

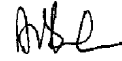
#### **Suggested topics for the project (Select any one).**

- 1: How can a society produce less waste?
- 2: Examine the problem of plastic.
- 3: Is water being wasted through the modern sewage disposal system in cities.
- 4: Can non-conventional sources meet the growing demand for power?
- 5: Should oceans act as waste dumps?
- 6: Role of vehicles in causing respiratory health problems.
- 7: Is better public transport an answer to reducing air pollution in cities?

#### **Suggested topics for Case Studies: (Select any two)**

- 1: Tarun Bharat Sangh's work in Alwar.

- 2: Auroville's afforestation effort.
- 3: Environmental effects of mining, brick industry.
- 4: Case study of Anna Hazare's work in Ralegoan Siddhi.
- 5: Bhopal Gas Tragedy. 6: Chernobyl tragedy. 7: Water Shortage in Kerala and Chirapunji
- 8: Rajasthan's water conservation systems.
- 9: The Tehri dam issue.
- 10: Narmada issue.
- 11: Ground water depletion.
- 12: Medical waste disposal through incineration – is there an option.



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