

Name : \_\_\_\_\_

# The Ideal New Star English School

## Varanasi

### Homework for Summer Holidays

Session : 2024-25

Class – XI (Mathematics)

Kids, the much awaited holidays are here and it's time to play and have fun!! We have planned some work for you to make the optimum use of your energy and give a vent to your creativity so that you continue learning during the holidays.

- ❖ Parents are requested to encourage their ward to do the homework independently.
- ❖ They can help the child if he/she needs help.
- ❖ Creativity and originality of the work will be appreciated.
- ❖ Complete the homework of each subject in a thin notebook, separate report file, stick file or scrapbook as per requirement of the subject and the activity.

#### **Subject – English Core (301)**

#### **HORNBILL**

1. Notice atleast 20 difficult words and note down their meanings from the following:  
(a) The Portrait of a Lady (b) We're not Afraid to Die .....  
(c) Discovering Tut : The saga Continues (d) The Adventure
2. Write the Central theme of the "The Portrait of a Lady".
3. Answer the following questions in about 30-40 words:  
(a) The author's grandmother was a religious person. What are the different ways in which we come to know this?  
(b) Describe the mental condition of the Voyagers from the chapter 'We're afraid to die.....' on 4 and 5 January.  
(c) Trace the interest of the old grandmother in the Education of the author. Do you think her concern was misplaced?

#### **SNAPSHOTS**

4. Write the Summary of the lesson 'The Summary of the Beautiful White Horse'.
5. Answer the following questions:  
(a) The narrator's uncle Khosrove was known to be a crazy fellow. Give a few instances of his craziness.  
(b) Narrate the story of the stolen White Horse in not more than 100 words.  
(c) What did John Byro mean when he said, "A suspicious man would believe his Eyes instead of his heart"?

#### **WRITING SECTION**

6. You are Praveen/Prabha. As the Secretary, Science club of your school, write a notice informing students about an Inter School Science Exhibition and encouraging them to participate in it.
7. In School and the colleges, a great stress is laid on the importance of discipline in life. The previous day your school Principal delivered a lecture about discipline in life. You were greatly impressed by him. You decided to reproduce his ideas in a form of a speech for your school magazine. Write his ideas including your own in about 200 words on the 'Importance of discipline in life'.

#### **CREATIVITY CORNER / ACTIVITIES**

8. Prepare a project file under the following categories:  
(a) Project : 1 Plight of Old Aged People
  - Highlight the plight of oppressed Gender – in equality
  - Injustice

- Deprivation
  - Agony
  - Pain faced by them
  - Women ideology towards gender in equality
  - Movements against gender in equality
- (b) Courage is not the absence of fear but triumph over it.
- Introduction
  - Origin of the quote
  - Courage – a choice to act
  - What can one learn from fear
  - Benefits of having courage over fear
  - How and why to overcome one fear
  - Mention some of your worst fear and how you managed to overcome them.

### **Mathematics**

1. Do Exercise 1.4 and 1.5.
2. Do miscellaneous Exercise on Chapter 1
3. Do Exercise 2.2
4. Draw the graphs of identity function, constant function, polynomial function, rational function, modulus function, signum function and greatest integer function.
5. Do Miscellaneous Exercise on Chapter 2.

### **Physics**

1. Complete the exercise questions of Lesson – 1.

### **Chemistry**

1. Complete the exercise question of lesson 1 and 2.
2. Prepare periodic table on chart paper.
3. For a precious stone “carat” is used for specifying its mass. If a carat = 3.168 grains (a unit of mass) and 1 gram = 15.4 grains. Find the total mass in kg of the ring that contains a 0.500 carat diamond and 7.00 gram gold.
4. The mass of copper metal is 6.342 gram and the density of copper is  $7.6 \text{ g/cm}^3$ . What is the volume according to significant figure. [Ans.:  $0.83 \text{ cm}^3$ ]
5. Naturally occurring Neon consists of three isotopes  ${}_{10}\text{Ne}^{20}$ ,  ${}_{10}\text{Ne}^{21}$  and  ${}_{10}\text{Ne}^{22}$ . Their percentage abundance in Nature are 90.51, 0.27 and 9.22 respectively. Calculate the average atomic mass of Neon. [Ans.:  $20.179 \text{ amu}$ ]
6. How many years would it take to spend one Avogadro’s number of rupees at a rate of 10 lakh of rupees in one second? [Ans.:  $1.9 \times 10^{10} \text{ years}$ ]
7. Derive the relation between Molarity (M) and Molality (m) including density (d)?
8. An Ion with mass no. 56 contains 3 unit of positive charge and 30.4% more neutron than electron assign the symbol for the Ion? [Ans.:  ${}_{26}^{56}\text{Fe}^{3+}$ ]

**Instruction: Solve all the questions in a separate copy.**

9. to record an osmotic pressure of 4.82 atm at 293 K. What is the molality of the solution?

### **Physical Education**

1. What is the concept of Physical Education?
2. What are the aims and objectives of Physical Education?
3. What are the career options in the field of Physical Education?
4. Write a short note on Khelo-India Programme?
5. How many categories are there in the Khelo-India Games and explain any two?

### Music

निर्देश : सभी विद्यार्थी अपनी उत्तर पुस्तिका में लिखकर दिखायेंगे।

1. संगीत की परिभाषा, नाद की परिभाषा, नाद के गुण की विशेषता।
2. स्वरों के पूर्ण नाम।
3. श्रुति की परिभाषा।
4. श्रुति स्वर में अंतर।
5. तीन ताल का वर्णन।
6. पं. विष्णु नारायण भातखण्डे का जीवन परिचय।

### Hindi

1. मुंशी प्रेमचंद का जीवन परिचय लिखिए।
2. नमक के दरोगा कहानी से समाज को क्या संदेश मिलता है?
3. हिंदी साहित्य में हिंदी का नामकरण कैसे हुआ?
4. भक्तिकाल की क्या विशेषता थी?

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