

# DEWAN PUBLIC SCHOOL INTERNATIONAL, MEERUT

## *SUMMER VACATION ASSIGNMENT (2017-18)*

### CLASS-IX



## ENGLISH

1) **BBC Assignments:** To do the following modules in BBC

### **Term 1 Module:**

Module 1- **Reading Section-** Pg. no. 36, 37, 38, 39, 40, 41 (Passage)

Module 2- **Writing Section-** Pg No. 80, 81, 82, 83, 84, 85 (Article)  
Pg. no. 140, 141, 142, 143 (Short-story)

Module 3- **Grammar Section-** Pg No. 158,159 (Gap filling)

Pg No. 164, 165, 170, 171 (Editing & Omission)

Pg No. 176, 177 (Sentence Reordering)

2) To write the synopsis of the Novel – **Three Men In A Boat And File it(A4 Sheets)  
(150- 200 Words)**

3) To watch any one of the following movie and describe it in your own words(150-  
200 words) and arrange the work in a file:-

- a. **Good Will Hunting**
- b. **The Great Debaters**
- c. **Lean On Me**

4) To Read the book “**Wings of Fire** “ by APJ Abdul Kalam

## MATHEMATICS

1. Find two rational and irrational number b/w  $\sqrt{2}$  and  $\sqrt{3}$  .
2. Rationalise the denominator of  $\frac{5+2\sqrt{3}}{7+4\sqrt{3}}$  and compare it with  $a-b\sqrt{3}$  . Find  $a$  and  $b$ .
3. Arrange in ascending order of the following irrational numbers.  
 $\sqrt[2]{3}, \sqrt[3]{2}, \sqrt[4]{5}$
4. Define zero polynomial and write the degree of the zero polynomial
5. Factorise:
  - (i)  $x^3 + 13x^2 + 32x + 20$
  - (ii)  $x^3 + x^2 - x - 1$
6. Factorise:
  - (i)  $8a^3 + b^3 + 12a^2b + 6ab^2$
  - (ii)  $27p^3 - \frac{1}{216} - \frac{9}{2}p^2 + \frac{1}{4}p$
7. For what value of  $b$ , is the polynomial  $x^3 + 3x^2 + bx - 6$  divisible by  $x - 3$ .
8. If  $x = \frac{\sqrt{p+2q} + \sqrt{p-2q}}{\sqrt{p+2q} - \sqrt{p-2q}}$ , then show that  $qx^2 + px + q = 0$
9. State Euclid's five postulates.
10. Draw the graph of the following equations (i)  $y = 3x - 5$  (ii)  $y = 3x$

**Note:- Do this assignment on project file sheets.**

### **Project Work**

**Make a project file on Application of Euclid's Axioms and Postulates using Internet Facility .**

# हिंदी

प्र01—आपने 'दो बैलों की कथा' कहानी पढ़ी होगी। क्या आपको नहीं लगता कि यह एक आज़ादी के संग्राम की महाकथा है। नवीन कहानी उद्घाटित करके लिखिए।

प्र02—बाढ़ग्रस्त लोगों की सहायता के लिए विद्यालय के छात्रों से धन एवं कपड़े एकत्रित करने की अनुमति के लिए विद्यालय की प्राचार्या को पत्र लिखिए।

प्र03 कवि सुमित्रानन्दन पन्त की किन्हीं दो कविताओं को अन्तरजाल से ढूँढ़कर लिखिए। कविताएँ आपकी पाठ्य-पुस्तक से नहीं हो।

## SCIENCE

### **PHYSICS**

1. Plot the speed time graph for a body first deaccelerating uniformly then having uniform motion and then accelerating uniformly.
2. What is the quantity which is measured by the area occupied under the velocity –time graph?
3. Is there any situation in which a body has constant speed but variable velocity?
4. Obtain a relation for the distance travelled by an object moving with a uniform acceleration in the interval between 4<sup>th</sup> and 5<sup>th</sup> seconds.

### **CHEMISTRY**

- Q1. Why is diffusion of gases fastest?
- Q2. In a hot summer day, Rohan and Nidhi are wearing white cotton and dark coloured terrycot clothes respectively. Who do you think would feel more comfortable and why?
- Q3. Give reasons that gas exerts pressure on the walls of the container.
- Q4. What happens to the heat energy which is supplied to the solid once its starts melting?
- Q5. (a) Name the SI unit of measuring temperature.  
(b) The boiling point of water is 100°C under normal atmospheric pressure. Convert this temperature in SI unit.

Q.6. CO<sub>2</sub> is a gas. Write its any two gaseous properties to justify it. How can you liquefy gases?

SUMMER HOLIDAY ACTIVITY (chemistry).

Q7. Prepare a short report (80 to 100 words) on the applications of plasma i.e fourth state of matter in everyday life including coloured photographs pictures.

**BIOLOGY**

Q1. Which substance is responsible for transfer of characters from one generation to next generation?

Q2. What is the function of SER in liver of vertebrates?

Q3. From your daily life incidents, write one example of an event where Endosmosis and Exosmosis take place?

Q4. Draw labeled diagrams of:

- a) Section of onion peel
- b) Compound light Microscope
- c) Chloroplast, Mitochondria

SUMMER HOLIDAY ACTIVITY

Q. Viruses are considered to be as exceptions to the cell theory. They are non cellular particles. Review the statement.

**SOCIAL SCIENCE**

**To make project on**

**1- Man made disasters**

or

Natural disaster.

(Choose any one of the following disasters for project work)

Fire, Terrorism, Railway accident, Earthquake, Cyclones, flood etc.

**Guidelines**

1. Total length of the project report should not be more than 15 pages.
2. The report on work project should be hand written
3. The project report will be presented in the following manner :
  - A. Cover page
  - B. List of contents with page no.
  - C. Acknowledgements
  - D. Project overview
  - E. Conclusion

**Note:** - The Project is to be submitted in a Simple file. It will be evaluated by the teacher concerned.

## संस्कृतम्

प्र01—अधोलिखितानाम् श्लोकानाम् अन्वयम् उचितक्रमेण पूरयित्वा पुनः उत्तरपुस्तिकायां लिखत—

1. गच्छन् पिपीलको याति योजनानां शतान्यपि ।  
अगच्छन् वैनतेयोऽपि पदमेकं न गच्छति ॥

अन्वयः—गच्छन् (i) ..... योजनानां (ii) ..... अपि याति । (iii) .....  
..... वैनतेयः अपि एकम् (iv) ..... न गच्छति ।

2. शोको नाशयते धैर्यं, शोको नाशयते श्रुतम् ।  
शोको नाशयते सर्वं, नास्ति शोकसमो रिपुः ॥

अन्वयः—शोकः (i) ..... नाशयते, (ii) ..... श्रुतम् नाशयते । (iii) .....  
..... सर्वं नाशयते (iv) ..... रिपुः नास्ति ।

3. गौरवं प्राप्यते दानात् न तु वित्तस्य सञ्चयात् ।  
स्थितिरुच्चैः पयोदानां पयोधीनामधः स्थितिः ॥

अन्वयः—गौरवं (i) ..... प्राप्यते न तु, (ii) ..... सञ्चयात् पयोदानाम् (iii) ...  
..... पयोधीनाम् (iv) ..... अधः ।

4. भवन्ति नम्रास्तरवः फलोद्गमैः  
नवाम्बुभिर्भूरिविलम्बिनो घनाः ।

अनुद्धताः सत्पुरुषाः समृद्धिभिः  
स्वभाव एवैष परोपकारिणाम् ॥

अन्वयः—फलोद्गमैः तरवः (i) ..... भवन्ति, (ii) ..... घनाः भूरि विलम्बिनः ।  
(iii) ..... सत्पुरुषाः अनुद्धता, एष (iv) ..... स्वभावः एव ।

प्र02—I अधोलिखितप्रश्नानाम् उत्तराणि लिखत ।

1. म्, ख्, प्, एषु कः वर्णः कण्ठात् उच्चारितः भवति?
2. ऋ, प्, स् इत्यत्र कस्य वर्णस्य उच्चारण स्थानम् मूर्धा अस्ति?
3. ....वर्णस्य उच्चारणस्थानं 'दन्तोष्ठम्' अस्ति ।
4. श्, ष्, स् वर्णेषु कः वर्णः तालव्यः अस्ति?

## II अधोलिखितवर्णानाम् उचितं वर्ण-संयोजनम् कुरुत-

1. प् + अ + र् + इ + श् + र् + अ + म् + अः =
2. स् + ऊ + र् + य् + ओ + द् + अ + य् + अ + म् =

## III अधोलिखितपदानाम् उचितं सन्धिं विच्छेदं वा कुरुत ।

1. हितोपदेशः
2. विद्यानन्दः
3. विद्यालयम् + गच्छामि
4. उत् + लंघनम्
5. गौपालस्तथैव
6. शिशुः + हसति

## प्र03 अधोदत्तेषु कविषु एकस्य कवेः जीवनपरिचयः चित्रेणसहितं लिखत ।

- वाल्मीकिः
- वेदव्यासः
- कालिदासः
- भारविः

आलोकः – उपर्युक्तकार्यं सञ्चिकायां (फाईलमध्ये) कुरुत ।

## FIT

Make a collage of your family or friend group photos using Picasa or Photoshop.

**Note:** Submit your file using CD/Pen drive or you can mail at: -

[teachteam.dpsi@gmail.com](mailto:teachteam.dpsi@gmail.com)

## ART

**Activity Name:**

**BIRD MOBILE**

**(Page no.107)**

