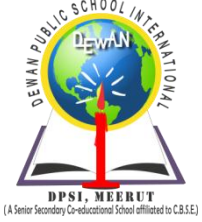


DEWAN PUBLIC SCHOOL INTERNATIONAL, MEERUT

SUMMER VACATION ASSIGNMENT (2017-18)

CLASS-X



ENGLISH

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

Term 1 Module:

Module 1- **Reading Section-** Page No. 44, 45, 46, 47, 48, 49, 50, 51 (Passage)

Module 2- **Writing Section-** Pg No. 130, 131, 132, 133 (Letter)

Pg No. 164, 165, 166, 167 (Stories)

Pg. no. 88, 89, 90, 91 (Article)

Module 3- **Grammar Section-** Pg No. 214-215 (Gap-filling)

Pg No. 220, 221, 226, 227 (Editing)

2) To write the synopsis of the Novel – **The Story of My Life (A4 Sheets) (150- 200 Words) and arrange it in a file.**

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. **The Paper Chase**

b. **21 (2008)**

c. **The Social Network**

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

MATHEMATICS

1. Prove that $(\sqrt{5} - 3\sqrt{2})$ is an Irrational Number.

2. Check whether 15^n ends with the digit 0. Justify your answer.

3. If the polynomial $6x^4 + 8x^3 + 17x^2 + 21x + 7$ is divided by polynomial $3x^2 + 4x + 1$, the remainder comes out to be $(ax + b)$. Find a and b.

4. Find the values of p and q for which the system has infinite numbers of solutions

$$2x + 3y = 7$$

$$(p + q)x + (2p - q)y = 21$$

5. Four different electronic devices make a beep after every 30 min, 1 hour, 1 hour 30 min and 1 hour 45 min respectively. All the devices beeped together at 12 noon. When will they beep again together at?

6. If α and β are zeros of $P(x) = x^2 - 2x + 3$. Find a polynomial whose zeros are $\frac{\alpha-1}{\alpha+1}$ and $\frac{\beta-1}{\beta+1}$.

7. Find the zeros of $f(x) = pqx^2 + (q^2 - pr)x - qr$. Verify the relationship between zeros and coefficients.

9. 8 men and 12 boys can finish a piece of work in 10 days while 6 men and 8 boys can finish the work in 14 days. Find the time taking by 1 man alone and 1 boy alone to finish the same work.

10. A number consists of two digits. When it is divided by sum of the digits the quotient is 6 with no remainder. When the number is diminished by 9, the digits are reversed. Find the number.

Note:- Do this assignment on project file sheets.

Project Work

Make a project file on 10 different methods of proving Pythagoras Theorem using Internet Facility .

हिंदी

प्र01—‘बाल गोबिन भगत’ पाठ के माध्यम से आपने एक ऐसे संत के विषय में जाना जो गृहस्थ होते हुए भी सच्चे संत थे। भारत में संत परम्परा का इतिहास बहुत प्राचीन है। किसी भी भारतीय संत के जीवन और शिक्षाओं के विषय में विस्तार से लिखिए।

प्र02—आपकी चैक बुक खो गई इसके लिए तत्काल उचित कार्यवाही हेतु बैंक प्रबंधक को पत्र लिखिए।

प्र03 कविवर जयशंकर प्रसाद की किन्हीं दो कविताओं को अंतरजाल से ढूँढ़कर लिखिए। स्मरण रहे वे कविताएँ आपकी पाठ्य-पुस्तक में नहीं हों।

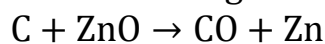
SCIENCE

PHYSICS

1. What do you mean by resistance? Derive an expression for the equivalent resistance when they are connected in parallel to each other.
2. Three resistance of 2, 3, 4 Ohm are connected in series across the potential 4V. Find the current flowing through the circuit.
3. Name the instrument which is used for measuring the electric current.
4. State the Joule's law of heating.

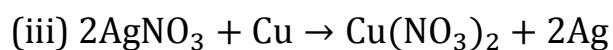
CHEMISTRY

Q1. In the given reaction which one is an oxidising and which one is a reducing agent.



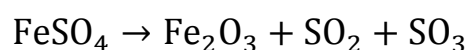
Q2. To preserve fatty food items, you keep them in a refrigerator. Why?

Q3. Consider the following reactions:



On the basis of above reactions, arrange Fe, Zn, Cu and Ag in decreasing order of reactivity.

Q4. Balance the chemical reactions:



SUMMER VACATION ACTIVITY

Q5. You are given the following materials:

- (i) Barium chloride solutions
- (ii) Ferrous sulphate crystals
- (iii) Copper sulphate solution

Identify the type of chemical reaction taking place when:

- (a) Barium chloride solution is mixed with copper sulphate solution and a white precipitate is observed.
- (b) On heating green coloured ferrous sulphate crystals reddish brown solid is left and smell of a gas having order of burning sulphur is experienced.

BIOLOGY

Q1. Liver plays an important role in maintaining a healthy digestive system. Justify the statement.

Q2. Do all plants open their stomata during day? If not, name some plants and state a reason for it.

Q3. Prepare a list of plants that liberate oxygen for the maximum time during day time and night time hours. What is so special about them?

Q4. Draw labeled diagrams of:

- a) Human digestive system
- b) Human Lungs
- c) Section of a green Leaf

SUMMER HOLIDAY ACTIVITY

Q. What are major differences between photosynthesis and thermosynthesis?

What pigments do photosynthetic bacteria have different as compared to plants.

SOCIAL SCIENCE

To work on the following project & prepare a comprehensive report on it :

Prepare a pocket guide on first-aid for your school. The first-aid pocket guide should contain aid that needs to be given for fractures, poisoning, cuts and burns, heat and cold waves and other threats that are prevalent in that area. The content shared in the guide should be supported with adequate pictures so as to give a clear and elaborate understanding about the topic.

OR

Generating awareness on Disaster Management. Design posters on Do's & Don'ts of following hazards:

1. Fire
2. Road Accidents
3. Flood
4. Earthquakes.

OR

Prepare a model on Disaster Management.

Guidelines

1. The report should be hand written.
2. Average size of the Pocket guide should be 6" X 5" inches'
3. Poster should be deigned on a good quality chart papers/Ivory sheet.

संस्कृतम्

प्र01—अधोलिखितानाम् श्लोकानाम् अन्वयम् उचितक्रमेण पूरयित्वा पुनः उत्तरपुस्तिकायां लिखत—

1. अपूर्वः कोऽपि कोशोऽयं विद्यते तव भारति!

व्ययतो वृद्धिमायाति क्षयमायाति सञ्चयात् ।।

अन्वयः— (i) तव अयम् कोशः कः अपि (ii) विद्यते । व्ययतः
वृद्धिम् (iii) सञ्चयात् (iv) आयाति ।

2. नास्ति विद्यासमं चक्षुः नास्ति सत्यसमं तपः ।

नास्ति रागसमं दुःखं नास्ति त्यागसमं सुखम् ।।

अन्वयः—विद्यासमम् (i) न अस्ति, (ii) तपः न अस्ति । रागसमम्
(iii) न अस्ति, (iv) सुखम् न अस्ति ।

3. आचार्यत्पादमादत्ते पादं शिष्यः स्वमेधया ।

कालेन पादमादत्ते पादं सब्रह्मचारिभिः ।।

अन्वयः—शिष्यः, (i) पादम् आदत्ते । (शिष्यः) स्वमेधया (ii) (आदत्ते),
(शिष्यः) (iii) पादम् आदत्ते, (शिष्यः) सब्रह्मचारिभिः पादम् (iv) ।

4. अनुद्वेगकरं वाक्यं सत्यं प्रियहितं च यत्।

स्वाध्यायाभ्यसनं चैव वाङ्मयं तप उच्यते।।

अन्वयः—यत् वाक्यम्, (i) सत्यम् (ii) च (तथा) स्वाध्याय। (iii)
..... च एव (iv) तपः उच्यते।

प्र02— सन्धिः विच्छेदम् वा कुरुत

1. महेन्द्रः
2. सु+उक्तिः
3. अद्यैव
4. वन + ओषधिः
5. पवनम्
6. गायति
7. पावनः
8. हरे + अत्र
9. कण्ठः
10. शिवच्छत्रम्
11. वाक् + ईशः
12. कश्चौरः

प्र03 अधोदत्तेषु कविषु एकस्य कवेः जीवनपरिचयः चित्रेणसहितं लिखत।

- वाल्मीकिः
- वेदव्यासः
- कालिदासः
- भारविः

आलोकः — उपर्युक्तकार्यं सञ्चिकायां (फाईलमध्ये) कुरुत।

FIT

Make a movie of any Holiday/Tour/Family function Photos/Videos.

Software Requirement: Windows Movie Maker.

Following points must be considered while creating a movie.

- I. A video should contain suitable background music.
- II. Proper transition and video effect must be there.

Note: Submit your file using CD/Pen drive or you can mail at: -
teachteam.dpsi@gmail.com

ART

Activity Name:

PENDANT LAMP or BALLOON BOWL

(Page no.104 & 105)