



DELHI PUBLIC SCHOOL PARADIP REFINERY

SUMMER HOLIDAY ASSIGNMENTS 2018-19

CLASS - X

ENGLISH

- A. Read Unit 1 (Health and Medicine) and Unit 2 (Education) from Main Course Book (MCB) thoroughly and write the followings in your English Home Work Copy.
1. HEALTH AND MEDICINE (MCB)
 - (a) Pg No.21. B6. Write an e-mail to your overstressed sister who is preparing for her class XII exams suggesting her to join a laughter club to combat her anxiety.
 - (b) Pg No.28. C8. Write a message in not more than 40 words.
 2. EDUCATION (MCB)
 - (a) Pg No. 57. B7. Draft the Speech.
 - (b) Pg No.58. B9. Write a letter to the Editor.
 - (c) Pg No. 77. D5. Write an article.
- B. Read chapters 1 to 7 from extended reading text "Story Of My Life".

HINDI

1. 'नेताजी का चश्मा' पाठ के आधार पर कैप्टन चश्मेवाले का चरित्र-चित्रण कीजिए। (संकेत-बिंदु- देशभक्त, स्वतंत्रता सेनानियों के प्रति श्रद्धालु, स्वाभिमान, व्यवहार-कुशल आदि।)
2. बालगोबिन भगत किसे अपना गुरु मानते थे? गुरु की सीख तथा आदेश का कैसे पालन करते थे? पाठ के आधार पर लिखिए।
3. सूरदास रचित भ्रमर गीत की क्या विशेषताएँ हैं? पठित पदों के आधार पर लिखिए।
4. तुलसीदास का सचित्र संक्षिप्त परिचय दीजिए। (जीवन-परिचय, काव्य कृतियाँ, काव्यगत विशेषता, भाषा, रामचरितमानस काव्य)
5. 'लखनवी अंदाज' पाठ के माध्यम से लेखक क्या संदेश देना चाहता है?
6. 'माता का आँचल' पाठ को ध्यानपूर्वक पढ़कर पाठ में प्रयुक्त आंचलिक शब्दों की सूची बनाइए तथा पाठ से प्राप्त जीवन-मूल्य व संदेश लिखिए।
7. रचना के आधार पर वाक्य-परिवर्तन अभ्यास करें।
8. वाच्य-परिवर्तन अभ्यास करें।
9. विकारी एवं अविकारी शब्दों के भेद उदाहरण के साथ लिखिए।

रचना के आधार पर सरल वाक्य का परिवर्तन

सरल वाक्य से संयुक्त वाक्य ==>

- १ - सरल वाक्य ==> राधा नाचती - गाती है।
- २ - सरल वाक्य ==> मोहन हँसकर
- ३ - सरल वाक्य ==> तुम पढ़कर सौ जाना।

- ४ -सरल वाक्य ==> अंकित की कलम छूटकर गिर गई।
- ५ -सरल वाक्य ==> बादल घिरते ही मोर नाचने लगा।
- ६ -सरल वाक्य ==> प्रथम आते ही खेलने लगे।
- ७ -सरल वाक्य ==> सूरज के निकलते ही फूल खिल उठे।
- ८ -सरल वाक्य ==> अभि तथा दीपक खेल - कूद रहे हैं ।
- ९ -सरल वाक्य ==> सूरज पढ़-लिखकर अधिकारी बना।
- १०-सरल वाक्य ==> अभिषेक थैला लेकर बाज़ार चला गया ।

सरल वाक्य से मिश्र वाक्य ==>

- १ -सरल वाक्य ==> राधा नाचती - गाती है।
- २ -सरल वाक्य ==> मोहन हँसकर बोल।
- ३ -सरल वाक्य ==> तूम पढ़कर सो जाना।
- ४ -सरल वाक्य ==> अंकित की कलम छूटकर गिर गई।
- ५ -सरल वाक्य ==> बादल घिरते ही मोर नाचने लगा।
- ६ -सरल वाक्य ==> प्रथम आते ही खेलने लगे।
- ७ -सरल वाक्य ==> सूरज के निकलते ही फूल खिल उठे।
- ८ -सरल वाक्य ==> अभि तथा दीपक खेल - कूद रहे हैं।
- ९ -सरल वाक्य ==> सूरज पढ़-लिखकर अधिकारी बना।
- १०-सरल वाक्य ==> अभिषेक थैला लेकर चला गया।

संयुक्त वाक्य से सरल वाक्य ==>

- १ - संयुक्त ==> सभी लिख चुके हैं लेकिन सृजिता अभी तक लिख रही है
- २ - संयुक्त ==> निधि रात भर पढ़ती है ताकि परीक्षा देने की तैयारी कर सके।
- ३ - संयुक्त ==> अभिलाषा ने रोना शुरू किया और बेहोश हो गई।
- ४ - संयुक्त ==> एलिन फ़ेसबुक करती है या ह्वाट्सएप करती है।
- ५ - संयुक्त ==> श्रेयसी बीमार थी अतः स्कूल नहीं आई।
- ६ - संयुक्त ==> सौमिता खाना खाई और चली गई।
- ७ - संयुक्त ==> आयुष ने केक काटा और सबको बाँट दिया ।
- ८ - संयुक्त ==> सीमा को खेलना भी अच्छा लगता है और सोना भी।
- ९ - संयुक्त ==> तुम्हारे बारे में सभी बच्चे जानते हैं और बड़े भी।
- १० - संयुक्त ==> उसके पास घड़ी तो थी किन्तु ठीक नहीं थी।

मिश्र वाक्य से सरल वाक्य ==>

- १-मिश्र वाक्य ==> जब भी मैं विकास के घर गया,मेरा आदर सत्कार हुआ।
- २-मिश्र वाक्य ==> विशाल ने जो मोबाइल खरीदा है, वह नया है।
- ३-मिश्र वाक्य ==> शिक्षक ने कहा कि सबको अपना गृहकार्य स्वयं करना है।

- ४-मिश्र वाक्य ==> जैसे ही हम बस से उतरे , रिक्शा वाले दौड़ पड़े।
 ५-मिश्र वाक्य ==> ज्योंही गुरुजी आए , भक्त शान्त हो गए।
 ६-मिश्र वाक्य ==> जब दुर्घटना की खबर सुना , तब मन दुखी हो
 ७-मिश्र वाक्य ==> ज्यों ही भीखमंगा दिखा , मधुसूदन को दया आ गई
 ८-मिश्र वाक्य ==> जो लोग परिश्रमी थे , वे सफल हो गए
 ९-मिश्र वाक्य ==> जैसे ही छुट्टी हुई , बच्चे घर चले गए।।
 १०-मिश्र वाक्य ==> यद्यपि रूबी घर गई तथापि काम में नहीं लगी।

मिश्र वाक्य से संयुक्त वाक्य ==>

- १-मिश्र वाक्य ==> जब भी मैं विकास के घर गया,मेरा आदर सत्कार हुआ
 २-मिश्र वाक्य ==> विशाल ने जो मोबाइल खरीदा है, वह नया ह
 ३-मिश्र वाक्य ==> शिक्षक ने कहा कि सबको अपना गृहकार्य स्वयं करना।
 ४-मिश्र वाक्य ==> जैसे ही हम बस से उतरे , रिक्शा वाले दौड़ पड़े।
 ५-मिश्र वाक्य ==> ज्योंही गुरुजी आए , भक्त शान्त हो गए।
 ६-मिश्र वाक्य ==> जब दुर्घटना की खबर सुना , तब मन दुखी हो गया।
 ७-मिश्र वाक्य ==> ज्यों ही भीखमंगा दिखा , मधुसूदन को दया आ ग
 ८-मिश्र वाक्य ==> जो लोग परिश्रमी थे , वे सफल हो गए
 ९-मिश्र वाक्य ==> जैसे ही छुट्टी हुई , बच्चे घर चले गए।
 १०-मिश्र वाक्य ==> यद्यपि रूबी घर गई तथापि काम में नहीं लगी।

SANSKRIT

- (१) प्रथम सत्राय यत् अव्ययाः यथा-(इतस्ततः, नुनं, सहसा, शनैः, अधुना, इत्यादयं अव्ययं नीत्वा वाक्य विरचनं)
 (२) गच्छन्, गुणीन्, राजन् इत्यादय शब्दानां अभ्यासं
 (३) प्रथम तथा द्वितीय पाठयोः अभ्यास तथा श्लोकानां अन्वय भावार्थ लिखनं
 (४) मणिका पुस्तकात् वाच्य अभ्यासं (पंचाशत् वाक्यानां अभ्यासात् लिखनं)
 कठिनशब्दानां अर्थलेखनं (पुस्तकगत विषये यत् प्रथम सत्राय अस्ति)
 (६) कमपि अभ्यास पुस्तकात् तव्य, अनीयर्, मतुप्, इन्, ठक् प्रत्ययं नीत्वा विंशतिः वाक्य विरचनं
 (७) समासस्य अभ्यासं पुस्तक आधारेण करणीयं ।
 (८) वाक्येषु समयस्य अभ्यासं कथं भवति तस्य अभ्यासं करणीय
 (९) कमपि अभ्यास पुस्तकात् अपठित अवबोधनं (गद्यांश, चित्रं पत्रं च लिखनं)

MATHEMATICS

1. What value of k , do the equations $3x-y+8=0$ and $6x-ky=-16$ represent coincident lines?
2. For the pair of equations $\lambda x+3y+7=0$ and $2x+6y-14=0$. To have infinitely many solutions, the value of λ should be 1. Is the statement true? Give reasons.
3. For which value (s) of λ , do the pair of linear equations $\lambda x+y=\lambda^2$ and $x+\lambda y=1$ have
4. For which value(s) of k will the pair of equation $Kx+3y=k-3$, $12x+KY=k$ has no solution?
5. For which values of a and b will the following pair of linear equations has infinitely many solutions $x+2y=1$, $(a-b)x+(a+b)y=a+b-2$
6. Two straight paths are represented by the equations $x-3y=2$ and $-2x+6y=5$. Check whether the paths cross each other or not.
7. Solve the following pairs of equations
 - I) $\frac{x}{3} + \frac{y}{4} = 4$, $\frac{5x}{6} - \frac{y}{8} = 4$
 - II) $\frac{1}{2x} - \frac{1}{y} = -1$, $\frac{1}{x} + \frac{1}{2y} = 8$, $x, y \neq 0$
 - III) $\frac{x}{a} + \frac{y}{b} = a+b$, $\frac{x}{a^2} + \frac{y}{b^2} = 2$, $a, b \neq 0$
 - IV) $\frac{2xy}{x+y} = \frac{3}{2}$, $\frac{xy}{2x-y} = \frac{-3}{10}$, $x+y \neq 0$, $2x - y \neq 0$
8. Find the solution of the pair of equations $\frac{x}{10} + \frac{y}{5} - 1 = 0$ and $\frac{x}{8} + \frac{y}{6} = 15$ and find λ , if $y=\lambda x+5$.
9. Draw the graph of the pair of equations $2x+y=4$ and $2x-y=4$. Write the vertices of the triangle formed by these lines and the Y-axis; find the area of this triangle?
10. The age of the father is twice the sum of the ages of his two children. After 20 yrs, his age will be equal to the sum of the ages of his children. Find the age of the father.
11. A shopkeeper gives books on rent for reading. She takes a fixed charge for the first two days and an additional charge for each day thereafter. Latika paid Rs22 for a book kept for six days, while Anand paid Rs16 for the book kept for four days. Find the fixed charges and the charge for each extra day.
12. In a competitive examination, 1 mark is awarded for each correct answer while $\frac{1}{2}$ marks is deducted for every wrong answer. Jayanti answered 120 questions and got 90 marks. How many questions did she answer correctly?
13. A person, rowing at the rate of 5 km/h in still water, takes thrice as much time in going 40 km upstream as in going 40 km downstream. Find the speed of the stream.
14. Ankita travels 14 km to her home partly by rickshaw and partly by bus. She takes half an hour, if she travels 2 km by rickshaw and the remaining distance by bus. On the other hand, if she travels 4 km by rickshaw and the remaining distance by bus, she takes 9 min longer. Find the speed of the rickshaw and of the bus.
15. A two –digit number is obtained by either multiplying the sum of the digits by 8 or then subtracting 5 or by multiplying the difference of the digits by 16 and then adding 3. Find the number.

16. Vijay had some bananas and he divided them into two Lots A and B. He sold the first Lot at the rate of Rs. 2 for 3 bananas and the second Lot at the rate of Rs. 1 per banana and got a total of Rs400. If he had sold the first Lot at the rate of Rs. 1 per banana and the second Lot at the rate of Rs 4 for 5 bananas, his total collection would have been Rs 460. Find the total number of bananas he had.

SCIENCE

PHYSICS

1. Write any three differences between real and virtual images.
2. A spherical mirror produces an image of magnification -1 on a screen placed at a distance of 30cm from the pole of the mirror.
 - (i) Write the type of mirror in this case.
 - (ii) What is the nature of the mirror?
 - (iii) What is the focal length of the mirror?
3. Draw a ray diagram to show the formation of image when the object is placed in front of a concave mirror.
 - (i) Between its pole and focus
 - (ii) at the centre of curvature(C)
 - (iii) at F.
4. Draw a ray diagram to show the formation image by convex mirror when object placed between pole and infinity.
5. Define magnification of a mirror and write mirror formula.
6. Name the mirror used in the following and give the reason.
 - (i) Head lights of bus
 - (ii) rear view mirror in vehicles.
 - (iii) Solar furnaces
 - (iv) shaving mirror.
7. A convex mirror used in a bus has radius of curvature 3.5m.if the bus locates a car at 10m behind the bus, find the position, nature and size of the image of the car.
8. State the sign conventions for a spherical mirror with a neat ray diagram.
9. An object is placed at a distance of 10 cm from a convex mirror of focal length 15cm. find the position and nature of the image. Draw a ray diagram to show formation of image.
10. The magnification produced by a plane mirror is +1.what does this mean?
11. What is meant by refraction of light? State the laws of refraction.
12. State Snell's law of refraction.
13. A student want to project a image of a candle flame on a screen 90cm in front of a mirror by keeping the flame At distance of 15 cm from its pole.
 - a) Suggest the type of mirror he should use.
 - b) Determine the magnification in this case
 - c) Find the distance between the object and its image.
 - d) Draw the ray diagram to show the image formation in this case.

CHEMISTRY

1. Identify the problem and find its solution : Hardship faced by people living near oil refinery.
2. Make a power point presentation on any one of the following topic .
 - (I) Rusting
 - (II) Rancidity

3. Write any 10 balanced chemical reaction .

4. Give reasons:-

A) Magnesium ribbon should be cleaned before burning in air.

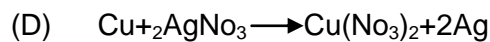
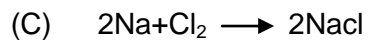
B) The colour of copper sulphate change when an iron nail is dipped in it ?

C) Respiration considered as an exothermic reaction .

D) We apply paint on articles.

E) Oil and fat containing food items are flushed with nitrogen

5. Name the substance oxidised, reduced, oxidising agent and reducing agent in the following reactions.



BIOLOGY

1. Draw labelled diagram of Nephron. Write the process of Filtration and Reabsorption.

2. Draw labelled diagram of Human Digestive System. Describe the digestion of food in mouth, stomach and small intestine.

3. Write differences between Aerobic and Anaerobic respiration.

4. Write the functions of : (i) Rings of cartilage in trachea (ii) alveoli (iii) diaphragm (iv) Hair in the nose

5. Describe the working of Human Heart. Why mammals and aves have four chambered heart?

6. What is ascent of sap and how transpiration pull help in it?

7. Write a short note on Haemodialysis.

8. How plants remove their waste products?

Read the chapter - Control and Coordination

SOCIAL SCIENCE

1. Why does resource development require in India?

2. Write a short note on '1st earth summit and agenda 21'.

3. Land is an important resource. Justify.

4. How did the technology influenced the history of economics. Justify

5. Explain the different forms of power sharing .

6. What do you think average income is an important criteria for the development. Explain

7. Role of technology in world economy. (18th - 19th century)

8. Print is the ultimate gift of God. Justify in historical point of view.

1. Visit a slum area / local area nearby and collect the information such as:

- (a) Their life style
- (b) Drinking facilities
- (c) Electricity
- (d) Cleanliness
- (e) School
- (f) Health care facilities
- (g) Sources of income

2. National development of a country depends on the availability of public facilities". How?

3. Why do different people have different development goals? Explain.

4. Explain the economic interdependence of the three sectors of the economy.

5. Give reason why there is a quantum increase in tertiary sector over a period of forty years.

COMPUTER

Make a Powerpoint Presentation on the topic "SOCIAL IMPACT OF IT ON SOCIETY" in a CD and write a report on this topic in your computer H.W. copy.