



DELHI PUBLIC SCHOOL

VISAKHAPATNAM STEEL PLANT

ASSIGNMENT JUNE - JULY 2020

Class: IX

Subject: ENGLISH

I. Complete the following from Words & Expressions

Unit I Comprehension I

Unit II Comprehension II

II. Write any one paragraph from the given topics on Page no. 18.

GRAMMAR-

III. Fill in the blanks with the right option.

The value of school uniform is always discussed and every child should know the importance of it. Teachers believe it _____[help/helps] to establish a spirit of unity and co-operation in a school. Uniform certainly makes pupils _____[look/looks] neater and tidier and enables _____[him/them] to be recognized as members of the school outside the walls.

Uniforms _____[are/was] impersonal clothes, they mark the part that _____[people/pupil] play in the drama of life, distinguishing the soldier _____[to/ from] a policeman, the airhostess from the mere passengers, or the school Head Boy/Girl from the rest. Uniform has been used to help people to be disciplined and leads to a _____[feeling/feel] of equality.

IV. Rearrange the following into meaningful sentences

1.new field /Sports science/ a / study/is/ of

2. science/ puts together/ and technology/ it/ research /to do.

3.gathered/ is helpful /the data /for the players /through research.

4.their skills/ strengthen/and/the players/ their body/ can sharpen

5.study and analyze/ / scientists /responses/ and diet models /sports /the muscle

V. Write the missing word along with the word that comes before and after it.

Alfred and Marc Chavannes attempting [Eg] Chavannes were attempting

to create 3D plastic wallpaper 1957 [a]

That idea failed they discovered that [b]

the item another useful quality to it. [c]

The item is made polyethylene film [d]

which resulted in a shape gives it, its [e]

name and it used to give protection [f]

to sensitive fragile objects. Many people [g]

love to burst it and fun. [h]

Any guesses? It's a Bubblewrap

VI. Answer the following briefly-

Q1. How did grandmother encourage Kezia to get to know her father?

Q2. How was Mr. MacDonald different from Kezia's father?

Q3. Why was Einstein called a World Citizen and a Visionary?

Q4. "Toto was not the sort of pet we could keep for long" Give reasons to explain the statement.

Q5. What were the Guru's words of wisdom and when does the disciple remember them?

Subject: MATHEMATICS

- Three friends walk away from a point in three different directions such that the path of each is equally inclined to those of the other two. Find the angles their paths make with one another.
- The angles of a triangle are $(x+10)^\circ$, $(2x+5)^\circ$ and $(6x - 15)^\circ$. Find x and the three angles.
- In a triangle ABC, if $2\angle A = 3\angle B = 6\angle C$. Find $\angle A$.
- The sum of two angles of a triangle is 80° and their difference is 20° . Find all the angles of the triangle.
- Three angles of a quadrilateral are respectively 110° , 40° , 50° . Find the fourth angle.
- Two adjacent angles on a straight line are in the ratio 5 : 4. Find the measure of each one of these angles.
- Mark the points A (5,5), B (-5 , 5) on the graph paper. Join OA , OB and AB. Name the figure so formed and measure each side of the figure.
- Plot the points O 0,0), B(16,0), C(16,12) on the graph paper . Join OB , BC and OC . Name the figure and find its area.
- Which of the following points will lie on x- axis and y – axis?
A(1,1) , B(1,0) , C(0,1) , D(0,0) , E(-1,0) , F(0,-1) , G(4,0) , H (0,-7)
- State the quadrants in which the following points lie
(i) A (1,1) (ii) B(2,4) (iii) C(-3,10) (iv) D(-1,2) (v) E(1,-1) (vi) F(-2,-4)
(vii) G(-3,10) (viii) H(1,-2)

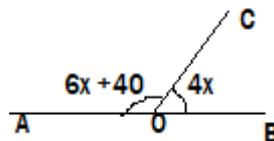
11. Find four solutions for the equation $4x+3y = 12$.

12. In which quadrant or on which axis are the points (-2, 4), (3,-1), (-1,0), (1,2) and (-3, -5) lie? Verify your answer by locating them on the Cartesian plane.

13. If $(2m, m-1)$ is a solution of $2x + 3y - 9 = 0$, find the value of m .

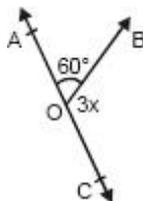
14. Find the perpendicular distance of the point $p(7, 5)$ from y -axis.

15. In the given figure if AOB is a straight line, find $\angle BOC$.



16. The perimeter of a triangular field is 144m and its sides are in the ratio 3 : 4 : 5. Find the length of the perpendicular from the opposite vertex to the side whose length is 60m.

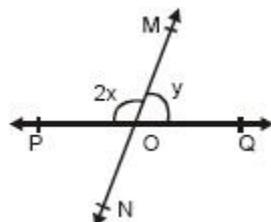
17. A point is such that (abscissa of the point, other than zero) that it equals to the ordinate of the point. In which quadrants can the point lie?



18. In the given figure, AOC is a line, find x .

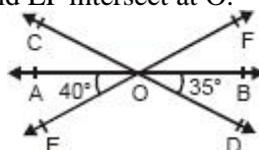
19. In the given figure, \overline{PQ} and \overline{MN} intersect at O.

a. Determine y , when $x = 60^\circ$.



b. Determine x , when $y = 40^\circ$.

20. In the given figure, lines AB, CD and EF intersect at O.



21. Find the measure of $\angle AOC$, $\angle COF$.

22. The exterior angles obtained on producing the base of a triangle both ways are 100° and 120° . Find all the angles.

Subject: PHYSICS

1. A motorcar of mass 1200 kg is moving along a straight line with a uniform velocity of 90kmph. It's velocity is slowed down to 18 kmph in 4 s by an unbalanced external force, Calculate the acceleration and change in momentum. Also, calculate the magnitude of the force required.
2. A large truck and a car, both moving with a velocity of magnitude v , have a head - on collision and both of them come to a halt after that. If the collision last for one second:
 - (a) which vehicle experience the greater force of impact?
 - (b) Which vehicle experience the greater change in momentum?
 - (C) which vehicle experience the greater acceleration?
 - (d) why is the car likely to suffer more damage than the truck?
3. From a rifle of mass 5 kg, a bullet of mass 50g is fired with an initial velocity of 108kmph. Calculate initial recoil velocity of the rifle.
4. A sphere of mass 40 kg is attracted by second sphere of mass 15 kg when their centres are separated by 20 cm apart, with a force of 0.1 milligram weight. Calculate the value of gravitational constant.
5. Suppose a planet exists whose mass and radius both, are half those of earth. Calculate the acceleration due to gravity on the surface of this planet.

Subject: CHEMISTRY

1. Suggest techniques to separate the following mixtures.
 - a. Mercury and water
 - b. Potassium chloride and ammonium chloride
 - c. Common salt , water and sand
2. Smoke and fog both are aerosols. In what way are they different?
3. Classify the following as physical and chemical changes
 - a. The composition of a sample of steel is 98% iron, 1.5% carbon and 0.5% other elements.
 - b. Zinc dissolves in hydrochloric acid with the evolution of hydrogen gas.
 - c. Metallic sodium is soft enough to be cut with a knife.
 - d. Most metal oxides form alkalis on interacting with water.
4. The teacher instructed three students A, B and C respectively to prepare a 50% (mass by volume) solution of sodium hydroxide (NaOH). A dissolved 50g of NaOH in 100ml of water, B dissolved 50g of NaOH in 100g of water while C dissolved 50 g of NaOH in water to make 100 ml of solution. Which one of them has made the desired solution and why?
5. Fill in the blanks
 - a. A colloid is a ----- mixture and its components can be separated by the technique known as -----
 - b. A mixture of chloroform and water taken in a separating funnel is mixed and left undisturbed for sometime. The upper layer in the separating funnel will be of ---- and the lower layer will be that of -----

Subject: BIOLOGY

1. Draw the cross section of Phloem tissue and label it. Also write the functions of all the constituents of this tissue.
2. How muscles present in the limb and in the lungs of an animal differ in structure and function?
3. When a potted plant is covered with a glass jar, water droplets appear on the inner wall of the glass jar. Why?
4. We can bend the branch of a tree easily. Name the tissue responsible for it. Draw the cross section of the tissue and label it.
5. Differentiate between parenchyma and sclerenchyma.
6. Identify the type of tissue present in the following:
 - i) Lining of blood vessels
 - ii) Lining of small intestine
 - iii) Lining of kidney tubules
 - iv) Epithelial cells with cilia
7. Draw the labelled diagram of different types of epithelial tissue.
8. Give three differences between epithelial and connective tissues.
9. What is the matrix of blood called? Write its composition and one function.

Subject: SOCIAL SCIENCE

1. Describe the features of Peninsular plateau.
2. What are the differences between western and eastern ghats?
3. Why is educated unemployment a peculiar problem of India?
4. What is disguised unemployment explain with an example?
5. What inspired the Indian leaders in the making of the constitution?
6. How was the apartheid system oppressive for the blacks?
7. What do you mean by constitutional amendments? Why are they essential?
8. Write the main features of Indian desert.
9. What were boys and girls taught in Nazi Germany?
10. Why did Hitler create surveillance forces in Germany besides the regular police?

Subject: HINDI

- 1) अपने पाठ्यपुस्तक के पढ़े गए पाठों से 10 अनुस्वार और अनुनासिक वाले शब्दों को छाँटकर लिखिए।
- 2) अपने पाठ्यपुस्तक के पढ़े गए पाठों से 10 नुक्ता वाले शब्दों को छाँटकर लिखिए।
- 3) निम्नलिखित शब्दों के मूल शब्द और उपसर्ग अलग करके लिखिए:
परलोक, अधिकार, हरदम, दुर्गम, प्रगति, बेचारा, अज्ञात, संक्रमण, स्वागत, विवाद
- 4) निम्नलिखित शब्दों के मूल शब्द और प्रत्यय अलग करके लिखिए:
दुखी, बुढ़िया, समेटकर, चढ़ाई, पहाड़ी, सफलता, नम्रता, महँगाई, देवत्व, शानदार
- 5) दो-दो पर्यायवाची शब्द लिखिए:
चाँद, जिक्र, आघात, ऊष्मा, अंतरंग
- 6) अर्थ के आधार पर वाक्य भेदों के नाम दो-दो उदाहरण के साथ लिखिए।
- 7) बहन की शादी में आमंत्रित करते हुए अपने मित्र को एक पत्र लिखिए।
- 8) 'सत्संगति के लाभ' और 'जीवन में परिश्रम का महत्व' पर सौ शब्दों में अनुच्छेद लिखिए।
- 9) परीक्षा से पहले दो मित्रों के बीच हुई बातचीत को लगभग 50 शब्दों में संवाद रूप में लिखिए।
- 10) 'जल संरक्षण' पर स्लोगन लिखिए।

Subject: TELUGU

I. ఈ క్రింది పద్యములకు ప్రతిపదార్థము, భావం వ్రాయుము.

1. ఆ దుర్యోధనుడుడంత మాత్రమును జేయంజాలడో కానీ -----
2. అక్కట! లాతులైన బగరైనను జంపన కొరనేల?-----
3. పగయడగించు టెంతయు శుభం, బది లెస్స యడంగునే-----

II. ఈ క్రింది ప్రశ్నలకు సమాధానములు వ్రాయుము.

1. ధర్మ రాజు శాంతి వచనములు సొంత మాటలలో వ్రాయుము.?
2. జంగాల శాస్త్రి ఆవేశముగా పలికిన పలుకు లేవి?
3. వీడ్కోలు సమావేశములో ఏమి జరిగింది ?
4. అబ్దుల్ కలాం దారి తప్పినప్పుడు ఆయన తండ్రి మాటలు అతన్ని దారిలో పెట్టేవి కదా! ఆ మాటలు ఏమిటి?
5. సావిత్రిభాయి కాలములో స్త్రీల పరిస్థితులు ఎలా వుండేవి?

III. ఈ క్రింది అర్థ సందర్భములు వ్రాయుము.

1. దూరెక్కుట దోషమందుటను నీ దురవస్థల కోర్వవచ్చునే.
2. నేనొక్కడినే అదృష్ట వంతుడినా!
3. వివేకం లేని విజ్ఞానం ప్రయోజన శూన్యం.
4. నాతో పాటు రా ముందు కూర్చో.

III. ఈ క్రింది సంధులను తెలుపుము.

1. సవర్ణదీర్ఘ సంది 2. గుణ సంది 3. వృద్ధి సంది

IV. ఈ క్రింది పదములకు పర్యాయ పదములు వ్రాయుము.

1. పోరితము 2. అంబరము 3. పండితుడు 4. ఆశ 5. జీవితము

V. ఈ క్రింది లేఖ వ్రాయుము.

1. నీవు చదివిన మంచి పుస్తకం గురించి అదిలాబాద్ జిల్లా బాసరలో ఉన్న నీ మిత్రుడు రమణకు లేఖ వ్రాయుము.

Subject: SANSKRIT

- 1) ' सूक्तिमौक्तिकम्' पाठ के श्लोको को लिखकर अन्वय भी लिखिए ।
- 2) दीर्घ सन्धि, गुण सन्धि, अयादि सन्धि के पाँच – पाँच उदाहरण लिखिए ।
- 3) राम, रमा, हरि तथा मति शब्दों के शब्दरूप लिखिए ।
- 4) भू, अस्, कृ तथा पा शब्दों के धातु रूप लट्, लृट्, लङ्, लोट् तथा विधिलिङ् लकारों में लिखिए । सेव् तथा लभ् शब्दों के धातु रूप लट्लकार तथा लृट्लकार में लिखिए ।
- 5) तुमुन्, क्त्वा तथा ल्यप् -प्रत्ययो के पाँच पाँच उदाहरण लिखिए ।