



DELHI PUBLIC SCHOOL

VISAKHAPATNAM STEEL PLANT

REVISION ASSIGNMENT 2020-21

Class: IX

Subject: ENGLISH

1. Read the passage given below and answer the questions that follow:

1.The most beautiful humming birds are found in the West Indies and South America. The crest of the tiny head of one of these shines like a sparkling crown of coloured light. The shades of colour that adorn its breast are equally brilliant. As the bird flits from one object to another, it looks more like a bright flash of sunlight than it does like a living being.

2.But, you ask, why are they called humming birds? It is because they make a soft, humming noise by the rapid motion of their wings—a motion so rapid, that as they fly, you can hardly see that they have wings. One day when walking in the woods, I found the nest of one of the smallest humming birds. It was about half the size of a very small hen and lays egg, and it was attached to a twig no thicker than a steel knitting needle. It seemed to have been made of cotton fibres and was covered with the softest bits of leaf and bark. It had two eggs in it, and each was about as large as a small sugarplum.

3 When you approach the spot where one of these birds has built its nest, it is necessary to be careful. The mother bird will dart at you and try to peck your eyes. Its sharp beak may hurt your eyes most severely and even destroy your sight.

4.The poor little thing knows no other way of defending its young, and instinct teaches it that you might carry off its nest if you find it.

(a)The most beautiful birds are found in the West Indies and South America.

(b) They are called humming birds because they make humming noise by the rapid of their wings.

(c) The nest of the humming bird was about the size of a very small hen.

(d)The shades of colour that adorn the breast of the humming bird is quite brilliant. (True/False)

(e) The nest of the humming bird is made of silk fibres and covered with bits of hay and bark. (True/False)

(f)Pick from the passage the synonym for 'dash' (para 3)

(g) You can hardly see that the humming birds have wings because of the:

- (i) rapid motion of their wings as they fly.
- (ii) humming noise as they fly.
- (iii) shining colour of their wings.
- (iv) invisible wings due to a bright flash of sunlight.

(h)The mother bird will dart at you and try to peck your eyes when you:

- (i) throw stones at her nest.
- (ii) approach the spot where the nest is built.
- (iii) try to steal her eggs from the nest.
- (iv) threaten the bird near her nest.

2. Taking help from the input given below and basing on the introduction, develop a complete story.

Veeru and Karim were young school boys. Next week their school was going to organise a camp near a forest in Ponnammudi

Went out to explore forest.... lost the way..... away from the camp..... cries of animals..... heard “thump-thump” sound..... a large elephant..... trumpeted angrily came towards them..... a balloon..... started blowing..... big balloon..... hit hard with hand..... “bang-bang”..... loud noise..... elephant turned away..... saved.

3. Choose the best word from the options given in bracket to complete the following passages:

1. Most UFO sightings occur (a)..... (at, in, on, during) the night, either late in the evening or in the early hours of the morning, (b)..... (As, While, When, Often) they take place on a dark moonless night when the person (c)..... (are, is, were, was) alone on a country road. This eerie atmosphere is perfect (d)(of, for, off, on) playing tricks on a person’s imagination. Police and newspaper officers are often swamped (e)..... (in, for, with, among) calls when something strange is seen in the skies, (f)..... (How, Then, Once, Before) an explanation is given, most people are happy to accept it.
2. Climate change (a)..... (is, was, will, has) one (b)..... (at, on, with, of) the most (c)..... (hot, hoted, hotly, hoting) contested environmental debates of our time. (d)..... (Will, Can, Have, Has) the West Antarctic ice sheet melt entirely? Will the Gulf Stream ocean current (e)..... (was, be, is, are) disrupted? May be. May be not. (f)..... (Neither, Either, Or, As) way, Antarctica is a crucial element in this debate.

4. Rearrange to form meaningful sentences.

- (a) comfortable / and / more / is / life / worth living / world / today’s / in / before / ever / than
- (b) science / advancement / brought about / in / and technology / have / changes / awesome
- (c) man / today / communicate / is / able to / faster
- (d) become / TV / medium / a / has / powerful / days / these
- (e) people / glued / children / and / older / remain / it / to
- (f) entertainment / all / become / a great / for / it / has / source of

5. Choose the correct option-

1. We can make friends with the wind god if we are—
 - (a) true.
 - (b) honest.
 - (c) strong.
 - (d) respectful.
2. What does the wind poke fun at?
 - (a) Weak houses and weak doors.
 - (b) Weak rafters and weak wood.
 - (c) Weak hearts and weak bodies.
 - (d) Any living or non-living thing that is weak and crumbling.
3. What is the effect of the wind on weak fires?
 - (a) makes them stronger

- (b) blow them out
- (c) let them burn as before
- (d) all the options are correct

4. Who does the wind make fun of?

- (a) the rich
- (b) the strong
- (c) the weak
- (d) none of these

5. What does the poet want the wind to do?

- (a) don't break the shutters of windows
- (b) don't scatter the papers
- (c) don't throw down the books
- (d) all the above

6. He won't do what you tell him"Who is he in this line?

- (a) God
- (b) Wind God
- (c) wind
- (d) all

7. How can we be friends with the wind?

- (a) by building strong homes
- (b) having strong body
- (c) having a strong heart
- (d) all

8. What is winnowing called?

- (a) cleaning process
- (b) sorting process
- (c) Barsana ?
- (d) None

6. Answer the following-

a) What made Santosh Yadav achieve fame and greatness?

b) "One day an accident befell him". What accident befell Bruno?

c) How did George and Harris react to Jerome's offer to do the packing? Did Jerome like their reaction?

d) On the whole, the small society of Rameswaram was very rigid in terms of the segregation of different social groups," says the author. Which social groups does he mention? Were these groups easily identifiable?

e) What was the real reason the beggar agreed to work for the Sergei?

f) Why does the writer say that she walked around her school like a zombie? (A Huse is not a Home)

g) What was the first successful mission organised by the group of villagers under Prashant's leadership?

h) What was the incident that took place at the railway station?(The Adventures of Toto)

Subject: MATHEMATICS

1. Find the value of $\sqrt{\frac{2+\sqrt{3}}{2-\sqrt{3}}}$, if $\sqrt{3} = 1.73$.

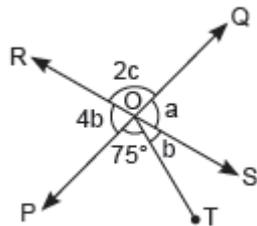
2. Age of x is more than the age of y by 10 years. Express this statement in linear equation.

3. Draw the graph of each of the following linear equations in two variables:

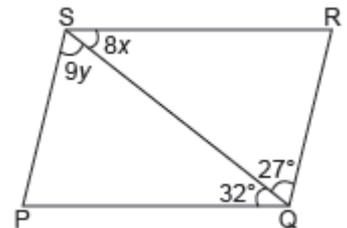
(i) $x + 2y = 4$ (ii) $3x + 2y = 6$ (iii) $5x - y = 10$ (iv) $y = x$ (v) $y = -x$ (vi) $y = 5x$

(vii) $15 + 3x + y = 0$

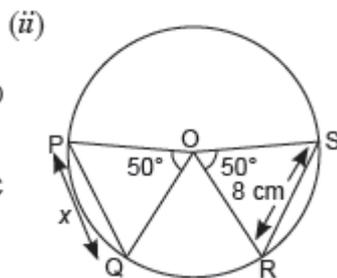
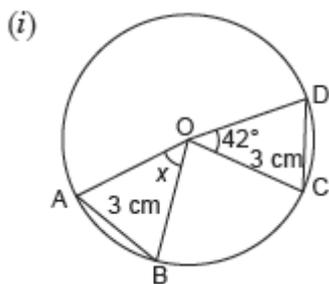
4. In the given figure, two straight lines PQ and RS intersect each other at O. If $\angle POT = 75^\circ$. Find the value of a , b and c .



5. In the given figure, PQRS is a parallelogram. Find the values of x and y .

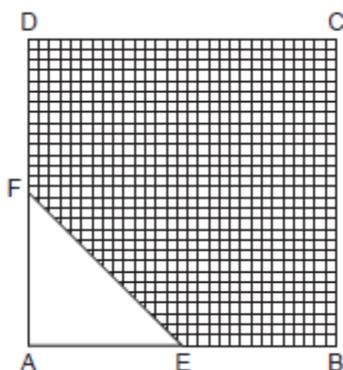


6. Find the value of x in the following figures, where 'O' is the centre of the circle.



7. Find the perimeter of an isosceles right-angled triangle having an area of 5000 m^2 . (Use $\sqrt{2} = 1.41$)

8. In the given figure, ABCD is a square of side 4 cm. E and F are mid-points of AB and AD respectively. Find the area of the shaded region.



9. The diameters of two cones are equal. If their slant heights are in the ratio 7:4, find the ratio of their curved surface area.
10. The curved surface area of a right circular cylinder of height 14 cm is 88 cm^2 . Find the volume of cylinder
11. A well 14 m deep is 2 m in radius. Find the cost of cementing the inner curved surface at the rate of ₹2 per square metre.
12. The marks obtained by 20 students of class IX in an examination are given below:
18, 8, 12, 6, 9, 16, 13, 5, 23, 22, 10, 20, 14, 9, 7, 16, 15, 3, 1, 13.
Present the data in the form of a frequency distribution table using the equal class interval, one such class being 15 – 20.
13. If the probability of winning a game is 0.4, what is the probability of losing it?

14. A die is rolled 250 times and its outcomes are recorded as follows:

| | | | | | | |
|------------------|----|----|----|----|----|----|
| Outcomes | 1 | 2 | 3 | 4 | 5 | 6 |
| Frequency | 40 | 45 | 35 | 38 | 52 | 40 |

Find the probability of getting:

(i) an even number.

15. The probability of guessing the correct answer to a certain question is $\frac{x}{2}$. If the probability of not guessing the correct answer is $\frac{4}{5}$, then find the value of x.

16. The polynomial $p(x) = 2x^3 + kx^2 - 3x + 5$ and $q(x) = x^3 + 2x^3 - x + k$, when divided by $(x - 2)$ leave the same remainder r_1 and r_2 respectively. Find the value of k, if $r_1 - r_2 = 0$

17. A die is rolled 300 times and following outcomes are recorded:

| | | | | | | |
|------------------|----|----|----|----|----|----|
| Outcomes | 1 | 2 | 3 | 4 | 5 | 6 |
| Frequency | 42 | 60 | 55 | 53 | 60 | 30 |

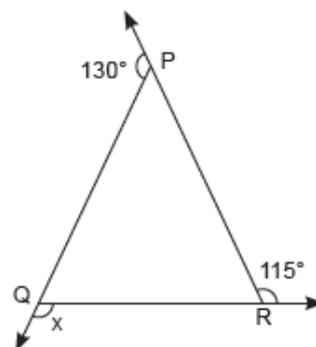
Find the probability of getting a number (i) more than 4 (ii) less than 3

18. Prove that $\frac{1}{3 - \sqrt{8}} - \frac{1}{\sqrt{8} - \sqrt{7}} + \frac{1}{\sqrt{7} - \sqrt{6}} - \frac{1}{\sqrt{6} - \sqrt{5}} + \frac{1}{\sqrt{5} - 2} = 5$.

19. If the coordinates of the two points are P(-5, 3) and Q(8, -9), then (abscissa of Q) – (abscissa of P) is (a) 4 (b) -12 (c) 13 (d) -13

20. At what point the graph of the linear equation $2x + 5y = 10$ cuts the y-axis?

21. In the given figure, find the value of x.



22. An ice cream cone has the radius of base 2 cm. If its height is 10 cm, determine its volume.

Subject: PHYSICS

1. Draw velocity time graphs for the following real life examples.
 - a. A train moving on a straight path along a particular direction with constant velocity.
 - b. A train starting from a station, picking up velocity, then moving with a constant velocity and final coming to rest at the next station.
 - c. A motorbike running at uniform velocity is brought to rest by uniform retarding force of the brakes.
 - d. A freely falling stone under the action of gravity.
 - e. A ball projected vertically upwards returns to the thrower.
 - f. A motorist moving on a crowded road, who has to alternately increase and decrease the speed of his vehicle in particular direction.
2. A force acts for 10 s on a stationary body of mass 100 kg after which it ceases to act. The body moves through a distance of 100 m in the next 5 s. calculate the
 - a. Velocity acquired by the boy.
 - b. Acceleration produced by the force.
 - c. Magnitude of the force.
3. A. Derive the expression for acceleration due to gravity. How does it vary (i) with height and (ii) as we move from equator to the poles?
B. What is the velocity acquired by a mass dropped from a height of 100 m?
4. A body weighs 600 gf in air and 450 gf in water. Find (i). the upthrust of the body,(ii) the apparent loss in weight of the body and (iii) the volume of the body.
A. State the law of conservation of energy. Prove that energy remains conserved for a freely falling mass m
B. A stone of mass 3 kg is lying on the ground level. If the stone is dropped, calculate the maximum energy released by the stone. ($g = 9.8 \text{ m/s}^2$)

Subject: CHEMISTRY

1. Name the three subatomic particles of an atom.
2. What are poly atomic ions? Give examples.
3. Convert 12 g of oxygen gas into mole.
4. Define elements, compounds, isotopes, isobars, solubility, colloids and suspensions
5. Give an example of a solution in which liquid is a solute as well as solvent.
6. Smoke and fog both are aerosols. In what way are they different?
7. Write the molecular formulae of the following. Aluminium nitrate, ferric sulphate, magnesium oxide, sodium hydroxide, silver chloride, potassium permanganate
8. Draw and write the electronic configuration of the following: magnesium, potassium, sodium , phosphorous, calcium.
9. Explain Rutherford's alpha scattering experiment. Give the observations and conclusions. Also explain its drawbacks.
10. If one mole of carbon atoms weigh 12 grams what is the mass in grams of one atom of carbon.?
11. Explain the Bohr's model of an atom.
12. Write down the postulates of Dalton's atomic theory.

Subject: BIOLOGY

1. Why sick person is advised to take rest?
2. Name the cleansing organelle in the cell.
3. Why does epidermal tissue have no intercellular spaces?
4. What are the three limitations for the approach to deal with infectious diseases?
5. Explain the function and structure of Golgi bodies.
6. Why plant cells are more rigid than animal cells? Define plasmolysis.
7. Explain the structure function and location of nervous tissue.

8. Assertion-Reason : In the following questions, a statement of assertion is followed by a statement of reason. Mark the choice as:

- a) If both assertion and reason are true and reason is the correct explanation of the assertion.
- b) If both assertion and reason are true but reason is not correct explanation of assertion.
- c) Assertion is true but Reason is false
- d) If both assertion and reason are false.

i) Assertion: Non-Striated muscles are said to be voluntary in nature.

Reason: Non-Striated muscles can be moved according to will.

ii) Assertion: Mitochondria are known as the powerhouse of a cell.

Reason: These generate energy for various activities of the cell.

9. Read the following passage and answer the following:

Corona viruses (CoV) are a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS-CoV) and Severe Acute Respiratory Syndrome (SARS-CoV). A novel corona virus (nCoV) is a new strain that has not been previously identified in humans.

Coronaviruses are zoonotic, meaning they are transmitted between animals and people. Detailed investigations found that SARS-CoV was transmitted from civet cats to humans and MERS-CoV from dromedary camels to humans. Several known corona viruses are circulating in animals that have not yet infected humans.

Common signs of infection include respiratory symptoms, fever, cough, shortness of breath and breathing difficulties. In more severe cases, infection can cause pneumonia, severe acute respiratory syndrome, kidney failure and even death.

Standard recommendations to prevent infection spread include regular hand washing, covering mouth and nose when coughing and sneezing, thoroughly cooking meat and eggs. Avoid close contact with anyone showing symptoms of respiratory illness such as coughing and sneezing.

- 1. Name the family of the virus to which new Corona virus belongs.
- 2. Which part or organ system of human body is affected by corona virus?
- 3. How does the Corona virus spread?
- 4. Symptoms of corona virus infection resembles to which viral infection in humans?
- 5. Can antibiotics be effective against the infection of corona virus? Why or why not?

Subject: SOCIAL SCIENCE

- 1. Write the chief characteristic features of the constitution of 1791.
- 2. What were the main changes brought about by the Bolsheviks immediately after the October revolution?
- 3. Explain how the Great Economic Depression affected the German economy?
- 4. Why do we need a standard meridian for India?
- 5. Write about the major features of physiographic units of India.
- 6. Give the characteristics and effects of the monsoon rainfall in India.
- 7. How are forests important for human beings?
- 8. Give arguments in favour of democracy.
- 9. What do you mean by constitutional amendments? Why are they essential?
- 10. Describe different stages of an election in India.
- 11. What are the crops grown in Palampur?
- 12. Unemployment leads to increase economic overload. Explain.
- 13. What are the dimensions of poverty?

Subject: हिंदी (द्वितीय भाषा)

- 1) 'संबंधों का संक्रमण के दौर से गुजरना' इस पंक्ति से आप क्या समझते हैं? विस्तार से लिखिए।
- 2) 'एक फूल की चाह' कविता के केंद्रीय भाव अपने शब्दों में लिखिए।
- 3) साँप का ध्यान बँटाने के लिए लेखक ने क्या-क्या युक्तियाँ अपनाईं?
- 4) मालाबार में हिंदू-मुसलमानों के परस्पर संबंधों को अपने शब्दों में लिखिए।
- 5) भ्रष्टाचार, जीवन में खेल कूद का महत्व और समाचार पत्र पर लगभग 100 शब्द में अनुच्छेद लिखिए।
- 6) परीक्षा में असफल होने पर मित्र को सांत्वना पत्र लिखिए।
- 7) बहन की शादी में आमंत्रित करते हुए अपने मित्र को पत्र लिखिए।
- 8) महिला और सब्जी वाले के मध्य वार्तालाप को संवाद के रूप में लिखिए।
- 9) विद्युत-कटौती से त्रस्त दो महिलाओं के मध्य संवाद लिखिए।
- 10) कोरोना से बचने के लिए जनता से घर पर रहने की अपील हेतु नारा लिखिए।
- 11) कोरोना की रोकथाम के लिए नारे की रचना कीजिए।

Subject: తెలుగు (ద్వితీయ భాష)

- I. క్రింది పద్యములకు ప్రతిపదార్థము, భావం వ్రాయుము.
1. ఆ దుర్యోధనుడంతమాత్రమును జేయంజాలడో కాని-----
 2. మునుమును బుట్టె నాకు నొక ముద్దుల పట్టి -----
 3. మనుజసమాజానిర్మితి సమంబుగ-----
 4. ప్రల్లదమాడి పెద్దలకు బాధ యొనర్చునతండు, తండ్రికిం-----
- II. క్రింది ప్రశ్నలకు సమాధానములు వ్రాయుము.
1. ధర్మరాజు శాంతి వచనములు సొంత మాటలలో వ్రాయుము.
 2. నందగోపాలుని గుణగణములు వ్రాయుము?
 3. ఇరుగుపొరుగు వారితో ఎలా ఉండాలి?
 4. కలాం బాల్యం లో వేటిని పరిశీలించేవారు?
 5. కర్లకుని గొప్పతనం గురించి కవి ఏమని చెప్పారు?
 6. మనిషికినిజమైన సౌందర్యం ఏమిటి?
 7. సరస్వతీ ప్రసన్నత అంటే ఏమిటి?
 8. వివేకానందుడు జాతికిచ్చిన సందేశం ఏమిటి ?
- III. క్రింది అర్థసందర్భములు వ్రాయుము.
1. సిరియే భోగలభికి జీవగర్ల.
 2. దూరెక్కుట దోషమండుటను.

3.సాధు వాదముల సెల్లగనవీధి.

4.ఆళవికీ పోతున్నాను బాబూ!

IV.క్రింది పర్యాయపదములు వ్రాయుము .

1.సంతోషం = 2.ధరిత్రి = 3.ఆశ= 4.వనిత = 5.సుతుడు-

V. క్రింది వ్యతిరేక పదములు వ్రాయుము.

1.మంచి X 2.ప్రేమX 3.గౌరవంX 4.సమర్థత X 5.పాపంX

VI. క్రింది ప్రకృతి పదములకు వికృతి పదములు వ్రాయుము.

1.పక్షి - 2.విద్య- 3.కావ్యం - 4. గుణము- ప్రాణము -

VII.క్రింది లేఖను వ్రాయుము.

1.గాజువాక శ్రామిక నగర్ లో నివసిస్తున్న రాము అనే వ్యక్తి గాజువాక రోడ్ల పరిస్థితి గురించి నగరపాలకసంస్థ కమీషనర్ కు రాస్తున్నట్లు లేఖ వ్రాయుము.

VIII.క్రింది వ్యాసములు వ్రాయుము.

1.కంప్యూటర్ 2.స్వచ్ఛభారత్

Subject: संस्कृतम्

1. मञ्जूषा सहायेन एकस्य चित्रस्य संस्कृते पञ्चवाक्यानि लिखत ।
2. रेखाङ्कित पदानां प्रश्ननिर्माणं कुरुत । (पाठाः - 2, 11)
3. (एकम्) कथानाक्रमानुसारं वाक्यानि पुनः लिखत । (गोदोहनम्)
4. शब्दान् आधारीकृत्य 5 प्रश्नान् लिखत ।
5. धातून् आधारीकृत्य 5 प्रश्नान् लिखत ।
6. पञ्चसन्धि प्रश्नान् लिखत । (गुण - अयादि - जश्त्वम् - विसर्ग)