



DELHI PUBLIC SCHOOL VISAKHAPATNAM ASSIGNMENT

October - November 2021

Class: IX



Subject: ENGLISH

I. Read the following passage carefully and answer the questions that follow.

It is not luck but labour that makes men. Luck says an American writer, is ever waiting for something to turn up, labour with keen eyes and strong will always turns up something. Luck lies in bed and wishes the postman would bring him news of a legacy; labour turns out at six and with busy pen and ringing hammer lays the foundation of competence. Luck whines, labour watches. Luck relies on chance, labour on character. Luck slips downwards to self-indulgence; labour strides upwards and aspires to independence. The conviction, therefore, is extending that diligence is the mother of good luck; in other words, that a man's success in life will be proportionate to his efforts, to his industry, to his attention to small things.

1. Which two things have been mentioned in the passage for success?
2. What is the opinion of the writer about the luck ?
3. How do you know that labour is necessary for success?
4. Hard work is superior to _____
5. A word in the passage which means the same as 'a strong opinion'

II. Fill up by choosing the right option-

Gravitation is the force (a) _____ holds us all down (b) _____ the surface of the earth. Anything (c) _____ upwards falls back to the earth. It is not only the earth that has the pull of gravity (d) _____ also everything else in the universe. Everything in this universe attracts (e) _____ other body to (f) _____.

- a. i) Whom ii) that iii) whose iii) who
- b. i) into ii) on iii) to iv) in
- c. i) thrown ii) throwing iii) to throw iv) threw
- d. i) because ii) and iii) so iv) but
- e. i) each ii) every iii) either iv) neither
- f. i) themselves ii) herself iii) itself iv) himself

III. Change the following into Reported Speech-

1. Suresh said to his friend, "Do you want to drive?"
2. Seema said to me, "When did you arrive?"
3. Mohan said, "Has John left?"
4. Jagdish said to Ajit, "Did you watch the cricket match?"
5. John said to me, "What are you doing?"

IV Rearrange the following to make meaningful sentences-

1. respect /said that /demanded /it is /but /is /given /that is /not
2. his medicines / mother / advised / to take / without / Rohan /fail
3. my / to play / little / brother / all day /likes / long
4. Hari / his /to the airport / week /to / last / receive / brother / went
5. you/ think / have / made /a / I / mistake / that
6. the teacher / us / to / assignment / complete /the / go / before / wants / we / home

Subject: MATHEMATICS

1. ABCD is a quadrilateral in which $AB \parallel DC$ and $AD = BC$. Prove that $\angle A = \angle B$ and $\angle C = \angle D$.
2. Show that the quadrilateral formed by joining the mid-points of the consecutive sides of a square is also a square.
3. Prove that the quadrilateral formed by the bisectors of the angles of a parallelogram is a rectangle.
4. The circumcentre of the triangle ABC is O. Prove that $\angle OBC + \angle BAC = 90^\circ$
5. A quadrilateral ABCD is inscribed in a circle such that AB is a diameter and $\angle ADC = 130^\circ$. Find $\angle BAC$
6. If a line is drawn parallel to the base of an isosceles triangle to intersect its equal sides, prove that the quadrilateral so formed is cyclic.
7. Construct a triangle ABC in which $BC = 5$ cm, $\angle B = 60^\circ$ and $AC + AB = 7.5$ cm.
8. A triangle PQR given that $QR = 3$ cm, $\angle PQR = 45^\circ$ and $QP - PR = 2$ cm.
9. A right triangle when one side is 3.5 cm and sum of other sides and the hypotenuse is 5.5 cm.
10. A storage tank is in the form of a cube. When it is full of water, the volume of water is 15.625 m^3 . If the present depth of water is 1.3 m, find the volume of water already used from the tank.
11. A school provides milk to the students daily in a cylindrical glasses of diameter 7 cm. If the glass is filled with milk up to an height of 12 cm, find how many litres of milk is needed to serve 1600 students.
12. A shopkeeper has one spherical laddoo of radius 5 cm. With the same amount of material, how many laddoos of radius 2.5 cm can be made?
13. A cube of side 4 cm contains a sphere touching its sides. Find the volume of the gap in between.
14. 30 circular plates, each of radius 14 cm and thickness 3 cm are placed one above the another to form a cylindrical solid. Find:
 - (a) The total surface area
 - (b) Volume of the cylinder so formed
15. The surface area of a sphere of radius 5 cm is five times the area of the curved surface of a cone of radius 4 cm. Find the height and the volume of the cone.

Subject: PHYSICS

1. The value of acceleration due to gravity at the centre of the earth is
 - a. Negative
 - b. maximum
 - c. zero
 - d. none of this
2. The ratio of mass of the earth to the mass of moon is approximately
 - a. 10 : 1
 - b. 1 : 1
 - c. 100 : 1
 - d. 1000 : 1
3. If the distance between two objects is increased, the gravitational force of attraction between them will
 - a. Increases
 - b. decreases
 - c. not change
 - d. all of these
4. Consider two objects A and B. What will happen to the value of G if the
 - (a) sizes of the two objects are increased.
 - (b) distance between the two objects is decreased
 - (c) objects are immersed in a water tank
 - (d) objects are taken in vacuum?
5. A particle is dropped from a tower 180 m high. How long does it take to reach the ground? What is the velocity when it reaches the ground?

Subject: CHEMISTRY

1. A compound XH_2 is formed by the combination of element X with hydrogen. What is the valency of X? State the formula of X the compounds formed by X with nitrogen and oxygen.
2. How many grams of sodium will have the same number of atoms as 6g of magnesium?

3. Calculate the number of oxygen atoms present in 120g of it.
4. Give 2 differences between cathode rays and canal rays.
5. Which observations in Rutherford's experiment led him to make the following conclusions?
 - i) Nucleus is positively charged.
 - ii) The atom is mostly empty.
 - iii) Whole mass of the atom is present in its centre.
6. How does Neil Bohr explain the drawback of Rutherford's model?
7. If K and L shells of an atom are completely filled, What is its atomic number? Name the element.
8. You are given an element X with atomic mass 16 and atomic number 8. Find out (i) the number of protons, electrons and neutrons (ii) valency of X (iii) Chemical formula of the compound formed when X reacts with hydrogen, carbon.
9. What are valence shell and valence shell electrons? How are they related to valency?
10. An atom of an element has 3 electrons in its outermost third shell. Write its i) Electronic configuration ii) valency iii) name of the element.
Draw the Bohr model of this atom.

Subject: BIOLOGY

ANSWER THE FOLLOWING:

1. Explain how individual health depends on social and mental well-being.
2. Write two examples each of
 - a) Viral diseases
 - b) Bacterial diseases.
3. What are vectors? Give two examples of each.
4. Penicillin is not effective against common cold. Why?
5. What cause encephalitis? How does it enter the body? Which organ does it infect? What are the symptoms if this organ is infected?
6. Antibiotics are ineffective against viral infections. Give reason.
7. State the two important ways by which an infectious disease can be treated.

Subject: SOCIAL SCIENCE

1. What makes an election democratic? Explain.
2. Is it good to have political and political competition? Discuss.
3. What are the slogans used by various political parties during election campaign to win in the Election?
4. What was the foreign policy of Hitler? Explain
5. What was the impact of world war on Europe and Germany?
6. How was Nazi Germany's art of propaganda for establishing total control over media?
7. What are the factors affecting the climate of India?
8. What factors are responsible for distribution of plants and animals in India?
9. Define monsoon. What do you understand by "break" in monsoon?
10. Describe the current government strategy of poverty alleviation?
11. Discuss the major reasons of poverty.
12. Give an account of Inter-state disparities of poverty in India.

Subject: HINDI

1. जल संरक्षण, पर्यावरण संरक्षण एवं कोरोना से बचाव के लिए लगभग 10 से 15 शब्दों का नारा लिखिए।
2. (क) जन्मदिन के शुभ अवसर पर अपने छोटे भाई को संदेश लिखिए।
(ख) दीपावली के शुभ अवसर पर एक संदेश लिखिए।

(ग) विद्यालय में आयोजित अतिरिक्त कक्षा के कारण आपको घर पहुँचने में देर होगी , इससे संबंधित अपनी माँ को एक संदेश लिखिए ।

3. “युवाओं का विदेश के प्रति बढ़ता मोह” विषय पर लगभग १५० शब्दों एक अनुच्छेद लिखिए।

4. (क) रोगी और चिकित्सक के बीच का संवाद लिखिए।

(ख) दो मित्रों के बीच जीवन लक्ष्य लेकर होने वाला वार्तालाप लिखिए ।

(ग) पिता और पुत्र के बीच परीक्षा फल कके विषय में होने वाला वार्तालाप लिखिए ।

5. अपने विद्यालय के तीसवें वर्षगाँठ पर मनाये जाने वाले विशेष आयोजनों के बारे में जानकारी देते हुए मित्र को पत्र लिखिए ।

Subject: TELUGU

I. మానుజ సమాజానిర్మితి-----పద్యం ప్రతిపదార్థములు,భావం వ్రాయుము.

2.ఫలముల్ మెక్కెడి-----పద్యము ప్రతి పదార్థ,భావం వ్రాయుము.

II. ఈ క్రింది ప్రశ్నలకు సమాధానము వ్రాయుము .

1.మెల్లి దుందుడుకు స్వభావానికి చెందిన సంఘటన తెలుపుము.

2.సమాజానికి ఎటువంటి రచయితలు కావాలి?

3.భూమిపుత్రుడు పాఠ్యసారాంశము వ్రాయుము?

III. ఈ క్రింది అర్థసందర్భములు వ్రాయుము.

1.అదీ శిశువు ముందు శిరసోగ్గే నిరహంకారము.

2.దేశపు తిండిగింజల సమస్య తీర్చక పరిశోధనలెందుకు.

IV.క్రింది పదములకు పర్యాయ పదములు వ్రాయుము.

1.మనుజుడు 2.రమ 3.నేల 4.ధారుణి

V.ప్రకృతి పదములకు వికృతి పదములు వ్రాయుము.

1.ఈర్ష్య 2.సుఖం 3.కార్యం 4.ఆజ్ఞ

VI. ఈ క్రింది లేఖ వ్రాయుము

1.మీ పాఠశాలలో జరిగిన తెలుగు భాషాదినోత్సవం గురించి నీ మిత్రునికి లేఖ వ్రాయుము.

Subject: संस्कृतम्

1. भ्रान्तो बालः – प्रश्ननिर्माणं लिखत ।

2. एकं पत्रम् (संपूर्णपत्रम्) लिखत ।

3. संस्कृते 5 वाक्यानि हिन्दी वा आङ्ग्ल भाषा तः लिखत ।

4. एकस्य चित्रस्योपरि संस्कृते पञ्च वाक्यानि लिखत ।

5. एकस्य श्लोकस्य अन्वयक्रमं लिखत । (जटायोः शौर्यम्)