



# DELHI PUBLIC SCHOOL VISAKHAPATNAM ASSIGNMENT



## Annual Examination Revision 2024-25

**Class: IX**

**Date of Submission: on or before 1.2.2025**

### Subject: ENGLISH

I. Fill in the blanks by choosing the most appropriate option.

The concept of democracy (a) \_\_\_\_\_ from ancient times, with roots in ancient Greece. However, modern democracy (b) \_\_\_\_\_ significantly over the centuries to include more complex systems of governance. One of the key features of democracy is the right of citizens to vote, which (c) \_\_\_\_\_ their ability to choose their leaders. In many countries, the democratic process (d) \_\_\_\_\_ through regular elections, where the majority (e) \_\_\_\_\_ the decision-making process. Despite its challenges, democracy (f) \_\_\_\_\_ widely regarded as one of the most effective forms of government.

- (a) (i) originated (ii) originates (iii) originate (iv) has originated
- (b) (i) evolved (ii) evolve (iii) evolves (iv) has evolved
- (c) (i) granted (ii) grants (iii) granting (iv) grant
- (d) (i) ensures (ii) ensure (iii) ensuring (iv) ensured
- (e) (i) influence (ii) influences (iii) influencing (iv) influenced
- (f) (i) is (ii) was (iii) has been (iv) will

II. Read the given conversation and complete the following passage.

Teacher: Why are you late today? Ravi: I missed the bus, so I had to walk to school. Teacher: You should try to come on time from tomorrow. Ravi: Yes, ma'am. I will try my best.

The teacher asked Ravi (a) \_\_\_\_\_, to which Ravi replied that (b) \_\_\_\_\_ and had to walk to school. The teacher then advised him (c) \_\_\_\_\_ from the next day. Ravi promised that (d) \_\_\_\_\_.

III. There is an error in each sentence of the following passage. Find out the error and supply the correction.

At a certain village, in the province of La Mancha at Spain, there live the gentleman of about 50 years of age. He was tall and thin and has giant features. At one time he is rich, but now he was poor, why he had sold all his lands at buy books. He loved reading and spending all his time between his beloved books.

Error	Correction
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IV. Fill in the blanks with correct form of verb given in the brackets.

- (i) Each of the boys \_\_\_\_\_(have/has) a bike.
- (ii) Either my mother or my brothers \_\_\_\_\_(is/are) going to the market.

V. Fill in the blanks with correct determiners.

- (i) She doesn't have \_\_\_\_\_ friends in the city, but she knows \_\_\_\_\_ people in the neighboring town. (many/much, some/any)
- (ii) \_\_\_\_\_ children love to play outdoors, while \_\_\_\_\_ prefer staying indoors. (Most/Every, a few/a little)
- (iii) I need \_\_\_\_\_ advice on this matter and also \_\_\_\_\_ information about the project. (a little/a few, some/any)
- (iv) There are \_\_\_\_\_ apples in the basket and \_\_\_\_\_ bananas on the table. (a few/a little, some/any)

VI. Thousands of kids across the country are making fast foods a staple of their daily lives at the expense of the nutritious food they need if they are to have healthy futures. The matter has taken a

serious turn as for many this intake of junk food coupled with lack of exercise is leading to obesity, high blood pressure, diabetes and heart problems at an early age. Write a descriptive paragraph on 'Growing Junk Food Menace in India' in about 120 words.

VII. The teacher asked her students to write a story. Payal could not complete the story. Help her complete her story on the basis of the beginning given below. (80 words)

The green alien got down from his oval spaceship eagerly and looked around, but could not see anything. The ship had created a dense dust cloud on the ground as it landed, and this was now making visibility difficult. The alien got down.....

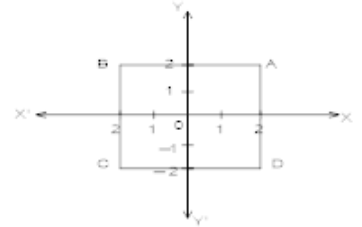
VIII. Write a detailed report on the recent Pongal celebrations at our school. Include information about the preparations, the activities that took place, the cultural programs, and the overall atmosphere of the event. Also, describe how the students, teachers, and parents participated and your personal reflections on the celebration.

**Subject: MATHEMATICS**

1-Rationalise the denominator of:  $\frac{1}{5+3\sqrt{2}}$ .

2-Factorize:  $2x^2 + 7x + 3$

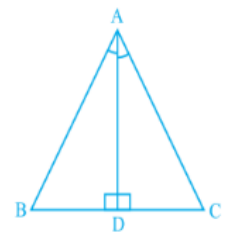
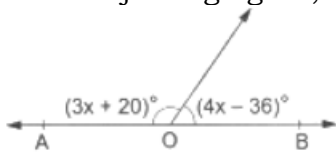
3-Find Co - ordinates of vertices of rectangle ABCD.



4-Find whether the given equation have  $x = 2, y = 1$  as a solution:  $2x + 3y = 7$

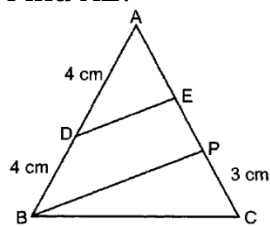
5-Why is Axiom 5, in the list of Euclid's axioms, considered a universal truth ?

6-In the adjoining figure, what value of  $x$  will make AOB, a straight line?



7-In  $\Delta ABC$ , the bisector AD of  $\angle A$  is perpendicular to side BC (See figure). Show that  $AB = AC$  and  $\Delta ABC$  is isosceles.

8-In the Figure, D is the mid - point of AB and  $PC = \frac{1}{2} AP = 3$  cm. If  $AD = DB = 4$  cm and  $DE \parallel BP$ . Find AE.



9-An equilateral triangle of side 9 cm is inscribed in a circle. Find the radius of the circle.

10-Find the area of a triangle whose base is 25 cm long and the corresponding height is 10.8 cm.

11-The radius and slant height of a cone are in the ratio 4 : 7. If its curved surface area is  $792 \text{ cm}^2$ , find its radius. (Use  $\pi = \frac{22}{7}$ ).

12-A company manufactures car batteries of a particular type. The lives (in years) of 40 such batteries were recorded as follows:

- 2.6, 3.0, 3.7, 3.2, 2.2, 4.1, 3.5, 4.5,
- 3.5, 2.3, 3.2, 3.4, 3.8, 3.2, 4.6, 3.7,
- 2.5, 4.4, 3.4, 3.3, 2.9, 3.0, 4.3, 2.8,
- 3.5, 3.2, 3.9, 3.2, 3.2, 3.1, 3.7, 3.4,
- 4.6, 3.8, 3.2, 2.6, 3.5, 4.2, 2.9, 3.6.

Construct a grouped frequency distribution table for this data, using class intervals of size 0.5 starting from the intervals 2 - 2.5.

### **Subject: PHYSICS**

1. A motor bike running at 5 m/s picks up a velocity of 30m/s in 5s. Calculate the acceleration and distance covered during acceleration.
2. Account for the following.
  - a. Name the quantity which is measured by the area occupied below the velocity-time graph.
  - b. An object is moving in a certain direction with acceleration in the perpendicular directions.
  - c. Under what condition is the magnitude of average velocity of an object equal to its average speed?
  - d. An example of uniformly accelerated motion.
  - e. A body is moving along a circular path of radius r. What will be the distance and displacement of the body when it completes half revolution.
3. Give reasons for the following
  - a. It is easier to push an empty box than to push the box full of books.
  - b. It is difficult for a fireman to hold a hose which ejects large amount of water with high velocity.
4. Why is Newton's law of gravitation called the universal law? What is the significance of this law in nature?
5. Give the differences between g and G.
6. A floating boat displaces water weighing 6000N. What is the buoyant force on the boat? What is the weight of the boat? What happens to the buoyant force as more and more volume of a solid object is immersed in a liquid?
7. Define power and give its SI unit.
8. Calculate the amount of work done in moving a 50 kg block through a distance of 10 m by applying a force of 100 N.
9. Define wavelength, time period and amplitude
10. What is echo and what are the conditions for an echo to occur?

### **Subject: CHEMISTRY**

1. Give reasons for the following
  - a. frequent watering of plants needed during summer.
  - b. heat energy is required to melt a solid
  - c. temperature remains constant during boiling of water.
2. What is meant by a substance? How can we check the purity of a substance? Illustrate the difference between a substance a mixture giving an example.
3. Pure copper metal melts at 1085 C and becomes black when heated in air. Identify the physical and chemical change during the process.
4. What is the difference between cation and anion?
5. An element x forms an oxide with formula  $X_2O_3$ . State the valency of X , Write the formula of chloride of X and sulphate of X
6. Write the chemical formulae of the following.
  - a. Magnesium sulphide, b. Cupric hydroxide c. Aluminium bromide
7. Calculate the molecular mass of the following compounds
  - a. ammonium nitrate, sulphuric acid, sodium carbonate, aluminium sulphate
8. Write the draw backs of Rutherford's model of an atom. State Bohr's postulates to overcome the draw backs of Rutherford's model.
9. What are isotopes, isobars? Give the applications of isotopes.

### **Subject: BIOLOGY**

I-Choose the correct answers:

1. Cell wall of which one of these is not made up of cellulose?
  - a. Bacteria b. Hydrilla c. Mango tree d. Cactus
2. Plant cells have large vacuoles each surround by a membrane known as-
  - a. plasma membrane b. cell wall c. leucoplast d. tonoplast
3. Nucleus of neuron is present in-
  - a. axon b. dendrite c. cell body d. both in axon and cell body
4. The girth of the stem increases due to-
  - a. shoot apical meristem b. root apical meristem

c. intercalary meristem d. lateral cambium

5.The variety of bee that is commonly used for commercial honey production is-

a. Apis serana indica b.A. dorsata c. A. florae d.A. melifera

6.Lysosome arises from \_\_\_\_.

a. endoplasmic reticulum b. golgi apparatus c. nucleus d. mitochondria

II-Assertion-Reasoning based questions:

7.Assertion-The plasma membrane is flexible and is made up of organic molecules called lipids and proteins.

Reason-Lipids and proteins help in building the cell membrane in a process called membrane biogenesis.

8.Assertion-Xylem consists of tracheid's, vessels, xylem parenchyma and xylem fibres.

Reason-Phloem is made up of sieve cells, sieve tubes, companion cells, phloem fibres and the phloem parenchyma.

9.Assertion-The signal that passes along the nerve fibre is called a nerve impulse.

Reason-Two bones are connected to each other by tendons.

10.Assertion: Egg laying birds are called broilers.

Reason: The cultivation of marine fish is called mariculture.

III-Read the given paragraph and answer the following questions:

Tissue is a group of cells similar in structure and function. Plant tissues are of two types meristematic and permanent. Meristematic tissue is a dividing tissue. Permanent tissues are derived from meristematic tissue. Animal tissues can be epithelial, connective, muscular and nervous tissue.

Answer the following questions:

1.Which tissue is responsible for storage of fat in the body?

2.What is cork?

3.What will happen if i.Ligaments are over stretched? ii.Apical meristem is cut or damaged?

4.What are complex plant tissues?

IV-Answer the following questions:

1.Why does the skin of your finger shrink when you wash clothes for a long time?

2.Explain the structure of nucleus?

3.Describe the structure of sclerenchyma. Write its major functions.

4.Explain the structure of three types of muscle fibres with the help of neat labelled diagrams. Also write the locations where they are found in the body.

5.Why is organic matter important for crop production?

### Subject: SOCIAL SCIENCE

1. Write some of the main features of the French Constitution of 1791.

2. Why were socialists against private property and saw it as the root of all social ills ?

3. Explain the main effects of the First World War on the industries in Russia.

4. How did the common people react to Nazism?

5. What was the Nazis ideology regarding motherhood?

6. How does democracy improve the quality of decision making?

7. How many members did the Constituent Assembly have that wrote the Indian Constitution?

Name any five prominent members of the constituent assembly.

8. How many seats are reserved for Scheduled Castes and Scheduled tribes in the Lok Sabha? Why?

9. What is the 'Model code of Conduct' for election campaign?

10. What are three categories of ministers which constitute the council of Ministers?

11. Which ocean is named after India? Give two reasons as to why it was named after India.

12. Study the given climatic table and answer the questions that follows.

Station	Altitude		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
<b>Kolkata</b>	6 m	Temperature °C	19	22	27	30	31	29	30	29	28	27	23	20
		Rain fall (cm)	1.2	2.8	3.4	5.1	13	29	33	33	25	12	2.7	0.4
<b>Shillong</b>	1461 m	Temperature °C	9.8	11	16	18	19	20	21	21	20	17	13	10
		Rain fall (cm)	1.4	2.9	5.6	14	29	47	36	34	30	19	3.8	0.6

- Name the hottest and coolest months of Kolkata.
  - Name the wettest and driest months of Shillong
  - Which of the two stations is cooler and why?
  - Which of the two stations has highest annual range of temperature and why?
- What are the major sources of river pollution?
  - Explain the three main processes of change of population.
  - What are the major sources of river pollution?
  - Why women are paid low compared to men?
  - Explain the principle measures taken in Punjab, Kerala and Andhra Pradesh to reduce poverty.
  - How can poverty be reduced in future in India?

**Subject: हिंदी (द्वितीय भाषा)**

- स्वर संधि के सभी प्रकारों को दो-दो उदाहरणों के साथ लिखिए ।
- इत, इक प्रत्यय तथा आ, ना, गैर उपसर्ग से दो-दो शब्द बनाइए ।
- डी. गुकेश को बड़ा भाई मानते हुए उनकी उपलब्धि के लिए उन्हें एक बधाई पत्र लिखिए ।
- किन्हीं 5 हिंदी किताबों के नाम लेखक सहित लिखिए, जिन्हें आपनी पुस्तकालय में रखना चाहेंगे ।
- चाँद और पृथ्वी के बीच होने वाले वार्तालाप को संवाद के रूप में लिखिए ।
- ‘अग्निपथ’ कविता का भावार्थ लिखिए ।
- अर्थ के आधार पर वाक्य के सभी प्रकारों के नाम सोदाहरण लिखिए ।
- उनाकोटी के नामकरण का आधार बताइए ।

**Subject: తెలుగు ( ద్వితీయ భాష )**

- కింది ప్రతిపదార్థములను చదివి రాయండి.
    - నుతజల పూరితంబు లగు.....
    - ఎక్కడనో జనించి పరమేశ్వరుడిచ్చిన....
  - రక్తదాన ఆవశ్యకతను వివరిస్తూ మీ మిత్రునికి లేఖ రాయండి?
  - వ్యాసాలు: 1. క్రీడలు - లాభాలు 2. నిరుద్యోగ సమస్య
- ప్రశ్నలు - జవాబులు :
- ఆకుపచ్చ శోకం పాఠ్యాంశం ద్వారా కవి చెప్పదలుచుకున్న విషయం ఏమిటి?
  - అయ్య దేవర కాళేశ్వరరావు గారి వ్యక్తిత్వాన్ని గురించి రాయండి?
  - శ్రీపాద సుబ్రమణ్య శాస్త్రి గారు తమ గురువు సీతారామ శాస్త్రి గారి గొప్పతనం గురించి చెప్పారు కదా! అలాగే మీ ఉపాధ్యాయుని గొప్పతనం గురించి పది వాక్యాలు రాయండి
- సంధులు: 1. కన్వాశ్రమము 2. భాషలేమిటి. 3. మహర్షి 4. పరోపకారం 5. నిత్యానందము

**Subject: संस्कृतम् (द्वितीय भाषा)**

\*अभ्यास पुस्तके चतुर्थ प्रश्नपत्रे निर्देशित प्रश्नानां समाधानानि लिखत -

- कारक - उपपदविभक्ति: |
- फचवाक्यानि संस्कृते अनुवादयत |
- एकस्य पत्रस्य मञ्जूषा सहायेन पूरणम् |
- धातुवाक्यानि पूरयत |
- प्रकृति - प्रत्यय वाक्यानि लिखत |
- सन्धिम् - प्रणनिर्माणम् लिखत |
- घटनाक्रमम् लिखत |
- पठित गद्यांशे - श्लोकाम्शे - नाट्यंशे भाषिककार्य प्रश्नानानां लेखनम् |