



DELHI PUBLIC SCHOOL VISAKHAPATNAM ASSIGNMENT

October-November 2022

Class: X



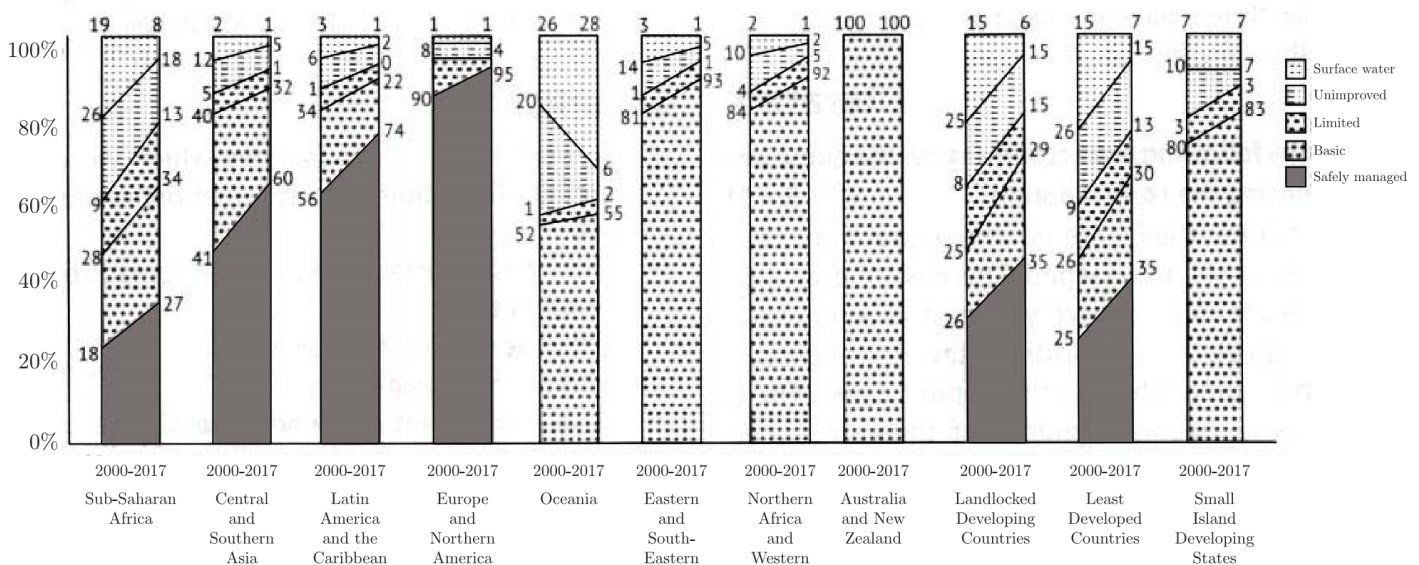
Subject: ENGLISH

I. Read the passage given below.

The report, progress on household drinking water, sanitation and hygiene (2000-2017): Special focus on inequalities, is the most recent publication by the WHO/UNICEF Joint Monitoring Programme, which tracks global progress in achieving the water and sanitation portion of the UN's Sustainable Development Goals (SDGs).

1. The 17 SDGs aim is to “end poverty in all its forms everywhere” by 2030. Goal 6 calls for universal access to safe and adequate access to drinking water and sanitation services.
2. According to the new report, progress has been made since 2000, yet billions of people are still underserved. The report delineates between access to basic services, which has greatly improved, and access to “safely managed” services, which is inadequate in many parts of the world. Only about 45 percent of the global population has access to safely- managed sanitation services. In 2017, an estimated 673 million people continued to openly defecate, most of them in 61 “high burden” countries where the practice remained common among more than 5 percent of the population.
3. To qualify as being “safely managed”, drinking water must meet three criteria: be accessible on the premises, be available for at least 12 hours per day, and be free from E. coli, arsenic, or fluoride contamination. Sanitation is considered safely managed when facilities are not shared with other households, and waste is safely treated on-site or at an off-site facility.
4. In 2017, an estimated 5.3 billion people had access to safely-managed drinking water. Of that number, 1.4 billion used basic services, 206 million used limited services, 435 used unimproved sources, and the remaining 144 million relied on untreated surface water.
5. Poor and rural populations are at the greatest risk of being left behind. In 2017, urban access to basic drinking water services was at 97 percent, while rural coverage was at 81 percent.
6. In terms of sanitation, an estimated 2.1 billion people gained access to basic services between 2000 and 2017, but 2 billion remain without access.
7. The report also focuses on improvements in eliminating open defecation. Between 2000 and 2017, the global rate of open defecation fell from 21 percent to 9 percent.

Four SDGs regions had estimates for safely managed drinking water in 2017



Source: WHO/UNICEF JMP (2019) Progress on household drinking water, sanitation and hygiene 2000-2017.

Based on your understanding of the passage, answer the questions given below.

i. What is the percentage of population which has access to sanitation services?

- (a) 45% (b)22% (c)15% (d) 8%

ii. The given passage focuses on

- (a) Sanitation (b)drinking water (c) hygiene (d) All of these

iii. List any 2 criteria for water to qualify as being 'safely managed' drinking water.

1. _____ 2. _____

iv. State any 1 target that has been set by UN's Sustainable Development Goals (SDGs) programme.

v. What percentage of people in urban areas have access to drinking water?

- (a) 45% (b)21% (c)97% (d)9%

vi. Complete the following analogy correctly with a word from paragraph 2:

bow : obeisance :: objective : _____

(Clue : Just like a bow is a synonym for an obeisance, similarly an objective is a synonym for...)

vii. Which countries have the maximum access to safely managed water?

- (a)Small Island Developing states (b)Australia and New Zealand
(c) Europe and North America (d) Northern Africa and Western Asia

viii. Rank the following countries from the highest to the lowest accessibility to surface water:

A. Latin America and the Caribbean

B. Oceania

C. Sub-Saharan Africa

D. Europe and North America

- (a) BADC (b)BCDA (c)BACD (d)BCAD

ix. What is the number of population that has gained access to basic services by 2017?

x. Supply 1 point for the following question:

When is sanitation considered as safely managed?

II. Attempt the following questions.

Fill in the blank by choosing the correct option to complete the sentence.

i. When the thief entered the house, the inmates _____ in the hall.

- (a) were slept (b) were sleeping (c) slept (d) had been sleeping

ii. Read the conversation between Harry and Cobbler. Complete the sentence by reporting cobbler's reply correctly.

Harry : Can you polish my shoes?

Cobbler : Yes sir. But I will take 10 rupees for each shoe.

Harry asked the cobbler if he could polish his shoes. The cobbler replied affirmatively but said that _____

iii. Select the correct option to fill in the blank for the given line.

You _____ work hard if you want to get good marks.

- (a) Might (b)can (c) should (d) (a) must

iv. Select the option that identifies the error and supplies the correction for the following line, from a news report:

Our soldiers are better equipped than that of Pakistan.

Option No.	Error	Correction
(a)	are	is
(b)	equipped	equip
(c)	that	those
(d)	of	at

v. Complete the given sentence, by filling in the blank with the correct option:

Rohit _____ when we arrived at the party.

- (a) had already left (b)has already left
(b) have already left (d) was already left

vi. Fill in the blank by using the correct form of the word in the bracket.

The Sushi and the pasta _____ (look) delicious.

vii. Report the dialogue between a doctor and patient, by completing the narration:

Doctor : You should take this medicine every day.

Patient : Should I take it before dinner or after dinner? Doctor : No, you should take it after breakfast.

The Doctor advised the patient that he should take that medicine every day. The patient further asked _____. The doctor replied negatively and then said that he should take it after breakfast.

viii. Identify the error in the given sentence and supply the correction.

The boys were played in the park when it started raining.

Use the given format for your response.

Error	Correction

ix. Transform the following direct speech into reported speech:

The principal said, "Why didn't you attend the flag hoisting ceremony, Anuj ?"

x. Fill in the blank by choosing the correct option, to complete the sentence.

The German force lost no time in retreat lest they _____ be cut off and surrounded.

(a) Would (b)should (c)might (d) could

xi. Select the correct option to complete the narration of the dialogue between Sunita and Neetu.

Sunita : Tomorrow is your birthday, what do you want as a gift?

Neetu : That is a lovely thought but I don't want anything.

Sunita asked Neetu since the next day was her birthday, what she wanted as a gift. Neetu replied that that was a lovely thought but _____.

(a) she do not want anything. (b) she did not wanted anything.

(c) she did not want anything. (d) she wants something.

xii. Identify the error in the given sentence and supply the correction.

Have you got some proof that he committed the crime?

Use the given format for your response.

Error	Correction

III. More Practice work in grammar.

i. Fill in the blank by choosing the correct option to complete the sentence.

The boys _____ to my lecture since 8 O'clock this morning.

(a) were listening (b) have been listening (c) had been listening (d) None of these

ii. Read the conversation between a mother and her daughter. Complete the sentence by reporting daughter's reply correctly.

Mother: Why are you looking so worried?

Daughter: My exams are approaching. Mother asked her daughter why she was looking very worried. The daughter replied that _____.

iii. Select the correct option to fill in the blank for the given line.

I _____ rather die than join the gang of terrorists.

(a) Could (b) should (c) would (d) can

iv. Select the option that identifies the error and supplies the correction for the following line: A little political thinkers think that liberty and equality can't go together.

Option No.	Error	Correction
(a)	can't	couldn't
(b)	think	thinks
(c)	A little	Some
(d)	go	goes

v. Complete the given sentence, by filling in the blank with the correct option:

They met you at night after you _____ your work.

(a) had finished (b) have finished (c) finished (d) will finish

vi. Fill in the blank by using the correct form of the word in the bracket.

Chris, in addition to his brother Zack, _____ (play) hockey on Saturday.

vii. Report the dialogue between a doctor and a patient, by completing the sentence:

Doctor : You should take this medicine every day.

Patient : Should I take it before dinner or after dinner? Doctor : No, you should take it after breakfast.

The Doctor advised the patient that he should take that medicine every day. The patient further asked if he should take it before dinner or after dinner. The doctor replied negatively and then said that _____.

viii. Identify the error in the given sentence and supply the correction.

Some guys like to fights on even playing grounds, and some guys like to cheat.

Use the given format for your response.

Error	Correction

ix. Transform the following direct speech into reported speech:

He asked, "Will you be coming?"

x. Fill in the blank by choosing the correct option, to complete the sentence.

My class teacher told me that I _____ work hard.

(a) Shall (b) could (c) can (d) should

xi. Select the correct option to complete the narration of the dialogue between Radha and Shikha.

Radha : Do you know how to swim? Shikha : Yes I know. I have learnt it during this summer vacation.

Radha asked Shikha if/whether she knew how to swim. Then Shikha replied in affirmative and also added that _____.

(a) she had learnt it during the summer vacation

(b) she has learnt it during the summer vacation

(c) she have learnt it during the summer vacation

(d) she had learn it during the summer vacation

xii. Identify the error and supply the correction, for the following sentence:

Every people went to welcome the Indian Cricket team.

Error	Correction

Subject: MATHEMATICS

DIRECTIONS : Each of these questions contains an Assertion followed by Reason. Read them carefully and answer the question on the basis of following options. You have to select the one that best describes the two statements.

(a) If both Assertion and Reason are correct and Reason is the correct explanation of Assertion.

(b) If both Assertion and Reason are correct, but Reason is not the correct explanation of Assertion.

(c) If Assertion is correct but Reason is incorrect.

(d) If Assertion is incorrect but Reason is correct.

1. Assertion: If in a cyclic quadrilateral, one angle is 40° , then the opposite angle is 140°

Reason: Sum of opposite angles in a cyclic quadrilateral is equal to 360°

2. Assertion : If the length of shadow of a vertical pole is equal to its height, then the angle of elevation of the sun is 45° .

Reason : According to pythagoras theorem, $h^2 = l^2 + b^2$, where h = hypotenuse, l = length and b = base

3. Assertion: If the height of a cone is 24 cm and diameter of the base is 14 cm, then the slant height of the cone is 15 cm.

Reason: If r be the radius and h the slant height of the cone, then slant height = $\sqrt{h^2 + r^2}$

4. The Great Stupa at Sanchi is one of the oldest stone structures in India, and an important monument of Indian Architecture. It was originally commissioned by the emperor Ashoka in the 3rd century BCE. Its nucleus was a simple hemispherical brick structure built over the relics of the Buddha. It is a perfect example of combination of solid figures. A big hemispherical dome with a cuboidal structure mounted on it.

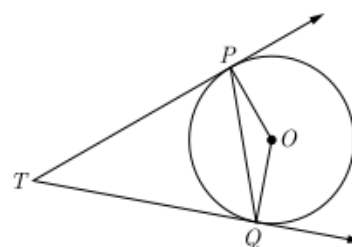
i) Calculate the volume of the hemispherical dome if the height of the dome is 21 m



- ii) The formula to find the Volume of Sphere is-
- iii) The cloth require to cover the hemispherical dome if the radius of its base is 14m is
- iv) The total surface area of the combined figure i.e. hemispherical dome with radius 14m and cuboidal shaped top with dimensions $8\text{m} \times 6\text{m} \times 4\text{m}$ is.
5. Calculate the mean of the following frequency distribution

Class Interval	0-10	10-20	20-30	30-40	40-50
Frequency	8	12	10	11	9

6. A vertical tower stands on horizontal plane and is surmounted by a vertical flag-staff of height 6 m. At a point on the ground, angle of elevation of the bottom and top of the flag-staff are 30° and 45° respectively. Find the height of the tower.
7. From the top of tower, 100 m high, a man observes two cars on the opposite sides of the tower with the angles of depression 30° and 45° respectively. Find the distance between the cars.
8. The internal and external diameters of a hollow hemispherical vessel are 16 cm and 12 cm respectively. If the cost of painting 1 cm^2 of the surface area is Rs. 5.00, find the total cost of painting the vessel all over. (Use $\pi = 3.14$)
9. In the given figure PQ is chord of length 6 cm of the circle of radius 6 cm. TP and TQ are tangents to the circle at points P and Q respectively. Find $\angle PTQ$
10. Prove that the parallelogram circumscribing a circle is a rhombus
11. The 17th term of an AP is 5 more than twice its 8th term. If 11th term of AP is 43, then find its nth term.
12. In a circle of radius 21 cm, an arc subtends an angle of 60° at the centre. Find the area of sector formed by the arc.
13. A road which is 7 m wide surrounds a circular park whose circumference is 88 m. Find the area of the road.
14. If the sum of first m terms of an AP is the same as the sum of its first n terms, show that the sum of its first $(m+n)$ terms is zero
15. The ninth term of an AP is -32 and the sum of its eleventh and thirteenth term is -94. Find the common difference of the AP



Subject: SCIENCE

1. -CHO represents the functional group
- a) esters b) alcohols c) aldehydes d) carboxylic acids
2. What is the IUPAC name of
1. $\text{CH}_3\text{-CH}_2\text{-CH=CH}_2$
2. $\text{CH}_3\text{-CHO}$
3. Why are most carbon compounds poor conductors of electricity?
4. Ethanol reacts with ethanoic acid react in the presence of $\text{Conc. H}_2\text{SO}_4$ to form a compound.
- i) Write the smell and class of compounds to which this compound belongs.
- ii) Write the chemical equation for the reaction and state the role of $\text{Conc. H}_2\text{SO}_4$ in the reaction.
3. Write one use of the product of this reaction.
5. Why does bread mould grows profusely on a moist slice of bread rather than on a dry slice of bread?
6. What is AIDS? Which microbe responsible for AIDS infection? State one mode of transmission of this disease. Explain one measure for prevention of AIDS.
7. What is pollination? Explain its significance.
8. What would be the ratio of chromosome number between an egg and its zygote? How is the sperm genetically different from the egg?
9. No two individuals are absolutely alike in a population. Why ?
10. Why is the progeny always tall when a tall pea plant is crossed with a short pea plant?
11. The sex of the children is determined by what they inherit from their father and not their mother. Justify.
12. Two resistors with resistances 5Ω and 10Ω are to be connected to a battery of emf 6 V so as to obtain
- i) minimum current ii) maximum current
- a) How will you connect the resistances in each case?
- b) Calculate the strength of total current in the circuit in the two cases.

13. An electrical appliance draws a current of 0.5A when applied potential difference across it is 220V. Calculate the amount of charge flowing through it in 30 minutes.
14. How does use of a fuse wire protect electrical appliances? In which combination household wiring is done?
15. Inside the magnet the magnetic field lines move from _____ to _____ pole.
16. Why do two magnetic field lines not intersect each other?
17. What is meant by solenoid? How does a current carrying solenoid behave? Give its main use.
18. How will the magnetic field produced at a point due to a current carrying circular coil change if we:
 - a) Increase the current flowing through the coil?
 - b) Reverse the direction of current through the coil?
 - c) Increase the number of turns in the coil?

Subject: SOCIAL SCIENCE

1. Why is the growth of nationalism in the colonies linked to an anti-colonial movement?
2. Explain any four facts to show how did the First World War help in the growth of the National Movement in India.
3. Explain the idea of Satyagraha according to Gandhiji.
4. What steps did the French revolutionaries take to create a sense of collective identity among the French people?
5. What changes did Napoleon introduce to make the administrative system more efficient in the territories ruled by him?
6. Give two examples of different types of global exchanges which took place before the 17th century, choosing one example from Asia, and one from America.
7. Explain how the global transfer of disease in the pre-modern world helped in the colonisation of America.
8. Where and why is rail transport the most convenient means of transportation?
9. What is the significance of the border roads?
10. What is meant by trade? What is the difference between international and local trade?
11. Why are the means of transportation and communication called the lifelines of a nation and its economy?
12. What was the reason for putting barriers to foreign trade and foreign investment by the Indian government? Why did it wish to remove these barriers?
13. How would flexibility in labour laws help companies?
14. The impact of globalisation has not been uniforming. Explain this statement.
15. How does democracy produce an accountable, responsive and accountable government?
16. How is social diversity accommodated in democracy? Explain with examples.
17. Explain in three ways in which democracy has succeeded in maintaining dignity and freedom of citizens.

Subject: हिंदी

1. मीरा किसकी चाकरी करना चाहती है और क्यों ?
2. समास के सभी भेदों के नाम लिख कर दो –दो उदहरण बताएँ।
3. आत्मत्राण कविता का मूल भाव लिखिए।
4. शैलेन्द्र किस तरह के फिल्मकार हैं ? (कोई दो बातें)
5. 26 जनवरी 1931 को कलकत्ता को क्यों सजाया गया था?
6. शब्द और पद में अंतर बताइए।
7. समास की परिभाषा लिखिए।
8. द्वंद्व तथा द्विगु समास में अंतर बताइए।
9. निम्नलिखित शब्दों को किन्हीं दो समासों में विग्रहित कीजिए –
नीलकंठ, तिरंगा, दशानन, पीतांबर
10. सयुक्त तथा मिश्र वाक्य में कोई एक अंतर बताइए।
11. कर चले हम फ़िदा ' गीत की पृष्ठभूमि क्या थी?
12. अपने विद्यालय के प्रवेश के लिए एक विज्ञापन तैयार कीजिए।
13. अपने विद्यालयीन यात्रा का वर्णन करते हुए अपने विद्यालय के अध्यक्ष महोदय को एक धन्यवाद पत्र लिखिए।
14. कविता पाठ प्रतियोगिता के संबंध में जानकारी देते हुए शाला नायक के रूप में एक सूचना जारी कीजिए।

Subject: తెలుగు

- I. ప్రశ్న జవాబులు రాయండి.
 1. "గోరంత దీపం" కథానిక ద్వారా మీరు గ్రహించిన ముఖ్యమైన ఐదు విషయాలు రాయండి.
 2. 'ఒంటరిగా ఉన్నప్పుడు పుస్తకాలే' మన నేస్తాలు అనే వాక్యంతో మీరు ఏకీభవిస్తారా? ఎందుకు?
 3. కథానిక లోని వృద్ధుని పాత్ర స్వభావాన్ని, గొప్పదనాన్ని సొంతమాటల్లో రాయండి.
 4. మాణిక్యవీణా కవితా సారాంశాన్ని సొంతమాటల్లో రాయండి.
- II. కింది వానికి అర్థ సందర్భములు రాయండి.
 1. చక్కని నొక్కులతో చిక్కని పదాలు పాడుకొన్నాడు.
 2. పద్య సంత్రాసంతో చింతలు పారిపోతాయా?
 3. అవును బాబూ ! నిజంగా అతను అదృష్టవంతుడే!
 4. అవి గోరంత దీపాలే కావచ్చు. ఏనాటికో ఒకనాటికి అవి కొండంత వెలుగునిస్తాయి.
- III. క్రింది అలంకారములు గురించి రాయండి.
 1. అర్థాంతరన్యాస అలంకారం గురించి రాసి, ఉదాహరణలు రాయండి.
 2. క్రమాలంకారం గురించి రాసి, ఉదాహరణలు రాయండి.

Subject: संस्कृतम्

1. संस्कृते पञ्च शब्दार्थान् लिखत |
2. एकं पत्रं लिखत |
3. पञ्च प्रत्यय वाक्यानि लिखत |
4. पञ्च वाच्य प्रश्नान् लिखत |
5. पञ्च समासप्रश्नान् लिखत |