



DELHI PUBLIC SCHOOL VISAKHAPATNAM
ASSIGNMENT
April - May 2024
Class: X



Subject: ENGLISH

1. Solve the reading comprehension of Unit -2, Page No-22,23,24 and 25 of your Words and Expressions book.

2. Here is a letter of inquiry given as a sample. Copy it in your classwork.

You are Anshul/Anshika, a student of class X and resident of 56 D, Ring Road, ITO, New Delhi, and wants to be a choreographer. Write a letter to the director, National Institute of Choreography, Noida, seeking information about their course, admission procedure, eligibility criteria and other necessary details.

House No-56 D
Ring Road
ITO
New Delhi

20 April 20XX

The Director
National Institute of Choreography
Sector 16
Noida

Subject: Inquiry regarding course in Choreography

Dear Sir

Referring to your advertisement regarding the courses in choreography offered by your reputable institute, I want to state that I am currently in X class and preparing for my final exam. I am very much interested in dancing and want to take it as a career. I am also given to understand that this institute is by far the best so far as choreography is concerned and I would very much like to be part of it.

Kindly send me the prospectus and the application form. I would be highly grateful if you could provide me with the following information:

- The department and programme faculty
- Funding opportunities
- Scholarships available
- Admission procedure
- Eligibility criteria
- Hostel facilities

Kindly send me the brochure along with the enrolment form at the earliest so that I could register myself for the course.

Yours sincerely
Anshika.

#Based upon the sample given, answer the following in your assignment notebook.

You intend to join coaching classes at Success Coaching Centre situated in Chennai.

The institute specialises in teaching science to classes XI – XII. Write a letter of enquiry in 100 – 120 words addressed to the Administrator in – charge of the institute seeking

clarification about the timing, duration, staff, transport and other necessary details for joining the institute. You are Sonia / Shiv of 2, Murthi Road, Chennai.

3. 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 (c) 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

Subject: MATHEMATICS

1. Determine the zeros of the polynomial $x^2 - 5$ and verify the relation between the zeros and its coefficients.

2. Write the polynomial whose zeroes are $5 + \sqrt{2}$ and $5 - \sqrt{2}$.

3. If $5x^2 + 8x + 4 = 2x^2 + 4x + 6$, then find the nature of the equation.

4. In a school, the duration of a period in junior section is 40 minutes and senior section is 1 hour. If the first bell for each section rings at 10.00 a.m. When will the two bells ring together again.

5. Do the following pair of linear equations have no solution? Justify your answer.

$$x = 2y ; y = 2x$$

6. Prove that $\sqrt{11}$ is an irrational number.

7. The sum of the numerator and the denominator of a fraction is 8. If 3 is added to both the numerator and denominator, the fraction becomes $\frac{3}{4}$. Find the fraction.

8. What is the smallest positive integer which should be multiplied with 4^n , (where n is a natural number) so that it ends with the digit zero?

9. 8 men and 12 boys can finish a piece of work in 10 days while 6 men and 8 boys can finish it in 14 days. Find the time taken by one man alone and that by one boy alone to finish the work

10. If α and β are the zeroes of the polynomial $p(x) = 5x^2 - 6x + k$, such that $\alpha - \beta = \frac{1}{5}$, find the value of k.

11. What is the smallest number which, when divided by 39, 52 and 91 leaves a remainder of 13 in each case?

12. Assertion: If HCF of 510 and 92 is 2, then the LCM of 510 & 92 is 32460

Reason: as $\text{HCF}(a,b) \times \text{LCM}(a,b) = a \times b$

- (a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
 (b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).
 (c) Assertion (A) is true but Reason (R) is false.
 (d) Assertion (A) is false but Reason (R) is true.

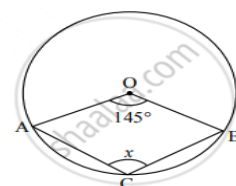
13. Two rails are represented by the equations $x + 2y - 4 = 0$ and $2x + 4y - 12 = 0$. Represent this situation geometrically

14. Find the least number that is divisible by all the numbers from 1 to 10 (both exclusive).

15. The HCF of two numbers 65 and 104 is 13. If LCM of 65 and 104 is $40x$, find x

16. If a polynomial p(x) is given by $p(x) = x^2 - 5x + 6$, then find the value of $p(1) + p(4)$

17. In the given figure, O is the centre of the circle. If $\angle AOB = 145^\circ$, then find the value of x.



18. Find the zeroes of the polynomial $4x^2 + 4x - 3$ and verify the relationship between zeroes and coefficients of the polynomial.

19. If α and β are the zeroes of the polynomial $x^2 + x - 2$, then find the value of $\frac{\alpha}{\beta} + \frac{\beta}{\alpha}$

20. Prove that $\frac{2-\sqrt{3}}{5}$ is an irrational number, given that $\sqrt{3}$ is an irrational number.

Subject: PHYSICS

- Which one is not used in verifying Ohms law?
(a) Ammeter. b). Resistort. c) Voltmeter. d) Galvanometer
- The slope of V-I. graph of a conductor gives
(a) Current (b) Potential difference
(c) Resistance (d) Resistivity .
- The SI unit of resistivity is
(a) Ohm- metre. b). Ohm/metre. c) metre/ohm. d). None of these.
- Assertion(A): The potential difference- current graph is a straight line.
Reason (R): The amount of current passing through the conductor is directly proportional to the potential difference applied across the conductor at constant temperature.
- What are the advantages of connecting electrical devices in parallel with the battery instead of connecting them in series.
- a) Derive an expression for equivalent resistance in series combination of three resistors R_1 , R_2 , and R_3 .
b) Resistances of 8 ohm, 10ohm, and 5 ohm are connected in series. Calculate the total resistance of the circuit.
- a) Three resistors R_1 , R_2 and R_3 are connected in parallel. Derive an expression for equivalent resistance.
b). Four resistors are 5 ohm, 10ohm, 15 ohm and 20 ohm are connected in parallel. Calculate the equivalent resistance of the circuit.
- a) Derive relationship between SI unit of electrical energy and commercial unit of electrical energy.
b). Which use more energy, 100 W bulb in 10 hours or 1500 W AC in 1 hour.

Subject: CHEMISTRY

- Differentiate Oxidation and Reduction. Identify substance oxidized , substance reduced, oxidizing and reducing agents in any 4 reactions.
 - What happens when lead nitrate reacts with potassium iodide? Name the precipitate formed and its colour. In what way double displacement reactions are different from precipitation reactions? Give examples.
 - Translate the following into balanced informative equations:
i) Nitrogen and hydrogen gases combine to form ammonia in presence of iron catalyst and the reaction is exothermic.
ii) Sulphur dioxide gas reacts with oxygen to form sulphur trioxide gas in presence of vanadium pentoxide , reaction is highly exothermic.
iii) Quicklime is added to water to form slaked lime, reaction is exothermic.
 - Give reason why in respiration and photosynthesis equations we write aqueous state for oxygen and carbon dioxide gases.
 - List out 4 points how you can make out whether a chemical reaction has taken place.
 - Explain electrolysis of water with labeled diagram. How can you test for these gases?
- Holiday Homework (To be written in Chemistry lab manual):

Six Experiments of Chemistry Lab Manual from the printed portion are to be written. Diagrams to be made in the white pages. Writing should be neat without any strike-offs. Date of experiment can be written later after doing the experiments in the lab. Observation tables can be written in the single-ruled pages itself. Viva-voce need not be written. To be submitted on the reopening day.

Subject: BIOLOGY

- Give one similarity and two differences between pepsin and trypsin.
- What will happen if:
a) Peristaltic movements do not occur all along the oesophagus?
b) Rings of cartilage are not present in the trachea?
- Why is the rate of breathing in aquatic organisms much faster than in terrestrial organisms?
- a) Name the reserved food of plant cell and the stored food of animals.

- b) In which part of digestive system is water absorbed?
5. Write a flow chart explaining the breakdown of glucose by various pathways.
6. Explain the process of nutrition in Amoeba with the help of neat labelled diagrams.
7. Explain the different types of heterotrophic nutrition with examples.
8. Write the chemical equation and the three events that take place during photosynthesis.

Subject: SOCIAL SCIENCE

1. Mention any three characteristics of black soil. Name three states having black soil and crops which is mainly grown in it?
2. What do you mean by Sustainable Development? Explain.
3. What is Land degradation? What are causes of land degradation and measures are taken to check?
4. Explain three measures taken by Sri Lankan government according to an Act passed in 1956 and reason for alienation of Sri Lankan Tamils
5. Why Power sharing is desirable? What are the moral and prudential reasons of power sharing?
6. Define power sharing. What are different forms of power sharing?
7. What was Proto – industrialization? Why did merchants of town go to villages for production?
8. Why was Industrial production in India increased during World War I?
9. How did British Industrialist capture Indian markets by advertisement?
10. In what respects is the criterion used by the UNDP for measuring development different from the one used by the World Bank?
11. Kerala, with lower per capita income, has a better human development ranking than Haryana. Hence, per capita income is not a useful criterion at all and should not be used to compare states. Do you agree? Discuss.
12. Why do we use averages? Are there any limitations to their use?

Note- Holiday Homework:

- Project – On Consumer Rights/Social Issue /Sustainable Development (Anyone of above topic to be done in Social Science Lab. Manual).
- Answer to each of the following question to be written 120 words.
- How Liberalisation and Globalisation helped India to maintain trade relations with other countries?
- Role of Sardar Vallabhbhai Patel for the Integration of Indian states in the Union of India.
- Assignment and other holiday home works to be written in Long 88 pages note book.

Subject: हिंदी (द्वितीय भाषा)

1. मुंशी प्रेमचंद के संबन्ध में निम्नलिखित तथ्य ज्ञात कीजिए
 - क) उनका मूल नाम।
 - ख) उनके किन्हीं पाँच उपन्यासों के नाम।
 - ग) उनकी कहानी संग्रह का नाम।
 - घ) उनकी किस रचना पर अंग्रेजों द्वारा प्रतिबंध लगा दिया गया था?
 - ङ.) उर्दू में वे किस नाम से कहानियाँ लिखते थे?
2. 'बड़े भाई साहब' कहानी प्रेमचंद की कहानी संग्रह के किस भाग में संकलित है? पता कीजिए। (यह पुस्तक ग्रन्थालय में उपलब्ध है)
3. 'बड़े भाई साहब' समाज की किस व्यवस्था पर व्यंग्य है? कैसे?
4. इन शब्दों के हिंदी रूप लिखें -
फ़जीहत, इम्तिहान, शरीक, अक्वल, इबारत, तालीम, हर्फ, स्कीम, ज़हीन, अदब, मसलन।
5. संत कबीरदास के संबन्ध में निम्नलिखित तथ्य ज्ञात कीजिए -
 - क) जन्म एवं मृत्यु वर्ष।
 - ख) गुरु का नाम।
 - ग) उनकी भाषा का नाम।

6. 'कस्तूरी' क्या है? यह दोहे में किसका प्रतीक है?
7. "जो जाग कर दुनिया को देखता है, वह व्याकुल होता है।" इस संबन्ध में कबीर का कौन सा दोहा है? उसे लिखें।
8. संत कबीर ने 'निंदक' का क्या महत्त्व बताया है?
9. सभी समासों को सोदाहरण समझाएं। (दो-दो उदाहरण)
10. हरिहर काका जैसा व्यक्ति यदि आपके आस-पास हो तो उसकी मदद आप किस तरह कर सकते हैं?

For May month (Holiday HW) -

1. मुंशी प्रेमचंद की किन्हीं तीन कहानियों को पढ़कर उनका सारांश लिखिए। (100-100 शब्दों में)
2. ज्ञात कीजिए कि लघुकथा क्या होता है? स्वयं 100 शब्दों में एक लघुकथा की रचना कीजिए।

Subject: తెలుగు (ద్వితీయ భాష)

చందన్ను: కింది పద్య పాదములను గనవిభజన చేసి, వాటి నియమాలను రాయండి

1. పట్టుగ నీశ్వరుండు తన పాలిట నుండిపు డిచ్చినంతలో.
 2. బరహితమే యొనర్చు నొక పట్టున నైనను గీడు జేయగా.
- II. కింది పద్యమునకు ప్రతిపదార్థం రాయండి.
- ♥మ. అనలజ్యోతుల నీ పతివ్రతలఁ బాపాచారులై
 డాయు భూ జనులెల్లన్ నిజసంపదల్ దొఱఁగి యస్తధ్వస్తులై పోరె? వి
 త్రనమే నిలుచెనె? ము న్నెఱుంగమె పులస్త్యబ్రహ్మసంతాన? మో
 జననీ! హైందవ భూమి నీ పగిది దుశ్చారిత్రముల్ సాగునె?
- III. కింది ప్రశ్నలకి జవాబులు రాయండి.
1. మాతృభావన పాఠం ఆధారంగా శివాజీ వ్యక్తిత్వాన్ని విశ్లేషించండి.
 2. రామలక్ష్మణులు విశ్వామిత్రుని యాగాన్ని రక్షించిన విదం రాయండి.
- IV. లేఖ రాయండి. అనకాపల్లిలో రోడ్ల పరిస్థితి ఏమాత్రం బాగోలేదని అనకాపల్లికి చెందిన రమేష్, నగరపాలక సంస్థ కమిషనర్ గారికి రాస్తున్నట్లు లేఖ.

Subject: संस्कृतम् (द्वितीय भाषा)

1. 10 शब्दार्थान् लिखत | (शुचिपर्यावरणम् - बुद्धिर्बलवती सदा)
2. एकं चित्रं दृष्ट्वा संस्कृते षच वाक्यानि लिखत |
3. एकं पत्रं पूरयित्वा पुनः लिखत |
4. एकस्य श्लोकस्य अन्वयक्रमम् लिखत | (शुचिपर्यावरणम्)
5. प्रश्ननिर्माणं कुरुत 10 प्रश्नाः | (बुद्धिर्बलवती सदा - शुचिपर्यावरणम्)