



DELHI PUBLIC SCHOOL VISAKHAPATNAM

REVISION ASSIGNMENT (HYE) 2021

Class: X



Subject: ENGLISH

I. Read the following passage carefully and answer the questions by choosing the correct option -

In terms of the total energy consumed by different sectors, the largest consumer is understandably the industrial sector, which accounts for nearly half the total energy used in the country today. This is followed by the transport sector which consumes about 25%, the household sector (about 14%) and the agricultural sector. (about 9%). This last sector has shown considerable increase in energy used over the last four decades. Among the primary fuels, the relative proportion of coal has dropped from nearly 80% to 40% and that of oil has gone up from 17% to 44% over the same period. Total energy consumption in India today is equivalent to 291 million tons of oil of which 26% comes from wood. On a per capita basis it works out to about one litre of oil per day, which is extremely low by international standards. The energy disparity between the urban and the rural population is at present as wide as between nations on a worldwide scale. There is apparently a greater need to provide energy in the rural areas and to improve the efficiency of energy use than merely to increase the national figures for energy consumption limiting its use to those who are getting the bulk share already. With the projected rate of population growth, improving upon the per capita energy consumption is a Herculean task as our coal reserves and the capacity to import oil cannot be increased beyond a point. There is clearly no escape from the utilisation of renewable energy sources in a big way if the gap between the desired levels of energy supply and available resources has to be kept at the minimum.

1. Industrial sector is responsible for consuming _____ of the total energy used in the country.
a) one fourth b) one half c) one tenth d) one fifth
2. The usage of coal has decreased over the years, but the oil has _____.
a) remained constant b) decreased c) increased d) been unaffected.
3. We need to focus on increasing energy consumption in rural areas as _____.
a) they use energy extensively b) they don't use energy c) they use quite less energy as compared to urban areas d) urban areas don't leave energy for rural areas.
4. Improving our per capita consumption of energy is difficult because population is increasing whereas resources are _____.
a) increasing b) decreasing c) constant d) unaffected
5. A word in the passage which is the synonym of 'significant'.
a) understandable b) considerable c) projected d) renewable

II. In the following passage, choose the most appropriate option from the ones given below to complete the passage.

Group (a) _____ is an (b) _____ conversation in which members of a group (c) _____ participate and exchange (d) _____ with a purpose. A problem is (e) _____ by raising questions and (f) _____ suggestions.

- a. i) discuss ii) discussion iii) to discuss iv) discursive
- b. i) organise ii) no organise iii) organised iv) organisation
- c. i) active ii) activity iii) actively iv) act
- d. i) ideas ii) ideal iii) ideally iv) idiom
- e. i) examination ii) to examine iii) examining iv) examined
- f. i) made ii) make iii) making iv) makes

III. Rearrange the following words & phrases to make the meaningful sentences.

- a) its / urbanisation / in India / everywhere / has / tentacles / spread
- b) only / the country / a / land / of / remains / villages / in name

c) policy-makers / numerous / this / posed / challenges / has / the / for

IV. You are Prabhu Kumar/Parvati of 17 E, Ravi Das Road, Kochi. Write a letter to the editor of a newspaper about the nuisance caused by loudspeakers in the city during examination days drawing attention of the authorities concerned to the problem.

V. You are Somita Roy, the librarian of ABC Public School, New Delhi. Write a letter to the Unique Book Co., Dariaganj, New Delhi, complaining about the poor quality of books and incorrect number of books supplied to your library.

Subject: MATHEMATICS

Multiple Choice Question Choose the correct answer

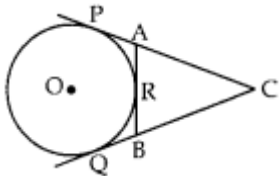
1. The distance between two parallel tangents of a circle of radius 4 cm is

- (a) 2 cm (b) 4 cm (c) 6 cm (d) 8 cm

2. A tangent is drawn from a point at a distance of 17 cm of circle $C(0, r)$ of radius 8 cm. The length of its tangent is

- (a) 5 cm (b) 9 cm (c) 15 cm (d) 23 cm

3. In given figure, CP and CQ are tangents to a circle with centre O. ARB is another tangent touching the circle at R. If CP = 11 cm and BC = 6 cm then the length of BR is



- (a) 6 cm (b) 5 cm (c) 4 cm (d) 3 cm

4. Mode is the

- (a) middle most frequent value (b) least frequent value
(c) maximum frequent value (d) none of these

5. Construction of a cumulative frequency table is useful in determining the

- (a) mean (b) median (c) mode (d) none of these

6. Choose the correct answer from the given four options : In the formula

$$\bar{x} = a + \frac{\sum f_i d_i}{\sum f_i}$$

for finding the mean of grouped data d_i s are deviation from a of [NCERT Exemplar Problems]

- (a) lower limits of the classes (b) upper limits of the classes
(c) mid points of the classes (d) frequencies of the class marks

7. The chance of throwing 5 with an ordinary die is

- (a) $\frac{1}{6}$ (b) $\frac{5}{6}$ (c) $\frac{1}{3}$ (d) $\frac{1}{2}$

8. If an event cannot occur, then its probability is

- (a) 1 (b) 34 (c) 12 (d) 0

9. If A, B and C are interior angles of a ΔABC then $\cos\left(\frac{B+C}{2}\right)$ is equal to

(a) $\sin \frac{A}{2}$

(b) $-\sin \frac{A}{2}$

(c) $\cos \frac{A}{2}$

(d) $-\cos \frac{A}{2}$

10. If $\sin \theta + \sin^2 \theta = 1$, then $\cos^2 \theta + \cos^4 \theta = ..$

- (a) -1 (b) 0 (c) 1 (d) 2

CHOOSE THE CORRECT OPTION:

A. Both Assertion and Reason are correct and Reason is the correct explanation for Assertion.

B. Both Assertion and Reason are correct but Reason is not the correct explanation for Assertion.

C. Assertion is correct but Reason is incorrect.

D. Assertion is incorrect but Reason is correct.

11. Assertion:

The linear equations $x-2y-3=0$ and $3x+4y-20=0$ have exactly one solution.

Reason:

The linear equations $2x+3y-9=0$ and $4x+6y-18=0$ have a unique solution.

12. Assertion: Zeroes of $f(x) = x^2 - 4x - 5$ are 5 and -1

Reason: The polynomials whose zeroes are $2+\sqrt{3}$ and $2-\sqrt{3}$ is $x^2 - 4x + 7$

13. Case Study based-1: 100m RACE

A stopwatch was used to find the time that it took a group of students to run 100 m.

Time (in sec)	0-20	20-40	40-60	60-80	80-100
No. of students	8	10	13	6	3



(i) Estimate the mean time taken by a student to finish the race. (a) 54

(b) 63

(c) 43

(d) 50

(ii) What will be the upper limit of the modal class ?

(a) 20

(b) 40

(c) 60

(d) 80

(iii) The construction of cumulative frequency table is useful in determining the (a) Mean

(b) Median

(c) Mode

(d) All of the above

(iv) The sum of lower limits of median class and modal class is (a) 60

(b) 100

(c) 80

(d) 140

(v) How many students finished the race within 1 minute? (a) 18

(b) 37 (c) 31

(d) 8

14. In ΔOPQ , right-angled at P, $OP = 7$ cm and $OQ - PQ = 1$ cm. Determine the values of $\sin Q$ and $\cos Q$.

15. Draw the graphs of the equations $x - y + 1 = 0$ and $3x + 2y - 12 = 0$. Find the solution and determine the coordinates of the vertices of the triangle formed by these lines and the x-axis.

16. Two tangents TP and TQ are drawn to a circle with centre O from an external point T. Prove that $\angle PTQ = 2\angle OPQ$.

Subject: PHYSICS

1. Define magnetic field and give the properties of magnetic field lines
2. State the right hand thumb rule, Flemings left hand rule and Flemings right hand rule
3. Draw the ray diagrams to show the various positions in a concave mirror and a convex lens
4. Magnification produced by a rear view mirror fitting in vehicles
 - a. is less than one
 - b. is more than one
 - c. is equal to one
 - d. can be more than or less than one depending upon the position of the object in front of it
5. Which of the following correctly describes the magnetic field near a long straight wire?
 - a. the field consists of concentric circles centred on the wire.
 - b. the field consists of straight lines perpendicular to the wire
 - c. the field consists of straight lines parallel to the wire.
 - d. the field consists of radial lines originating from the wire.

Following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

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

6. Assertion (A): steel core is used as an electromagnet.

Reason (R) : Steel gets permanently magnetised when the current flows through the coil wound around.

7 A concave mirror produces three time magnified real image of an object placed at 10 cm in front of it. Where is the image located?

Subject: CHEMISTRY

I MULTIPLE CHOICE QUESTIONS

1..Reaction between X and Y forms a compound Z. X loses an electron and Y gains an electron. Which of the following property is not shown by Z?

- a. High melting point
- b. Insoluble in water
- c. conducts electricity in molten state
- d. occurs as a hard solid

2.A solution turns red litmus blue, its pH is likely to be

- a. 1
- b. 4
- c. 5
- d 10

3. Which one of the following metals does not react with cold as well as hot water?

- a. sodium
- b. magnesium
- c. calcium
- d. iron

II Case based questions

Following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

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

4. Assertion(A): Silver chloride is stored in dark coloured bottles.
Reason(R): Dark coloured bottles cut off the light and prevent its decomposition.
5. Assertion(A): When an acid reacts with a metal, hydrogen gas is produced.
Reason(R): Some metals like copper do not produce hydrogen gas from metals.
6. Plaster of Paris should be stored in a moisture proof container ? Why
7. Define rancidity
8. Give the uses of washing soda, baking soda and bleaching powder

Subject: BIOLOGY

I Multiple Choice Questions:

- 1) Which of the following are examples of autotrophic organisms?
a. Fungi and virus b. Virus and bacteria c. Green plants and some bacteria d. None of the above
- 2) The left atrium receives the pure blood from the -
a. Superior venacava b. Pulmonary artery c. Pulmonary veins d. None of the above

II. Following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the correct option:

- (a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true but R is not the correct explanation of A.
(c) A is true but R is false.
(d) A is false but R is true.
1. **Assertion (A):** Trachea does not collapse, when there is no air in it.
Reason (A): Trachea is supported by cartilage.
2. **Assertion (A):** Bile is essential for digestion of lipids.
Reason (R): Bile juice contains enzymes.

III. Read the following and answer any four questions from (i) to (v).

All living cells need nutrients, O₂, and other essential substances. Also, the waste and harmful substances need to be removed continuously for healthy functioning of cells. So, a well developed transport system is mandatory for living organisms. Complex organisms have special fluids within their bodies to transport such materials. Blood is the most commonly used body fluid by most of the higher organisms. Lymph also helps in the transport of certain substances.

- (i) Which of the following does not exhibit phagocytic activity?**
(a) Monocytes (b) Neutrophils (c) Basophil (d) Macrophage
- (ii) Amount of blood corpuscles in changed in dengue fever. (iii) Why are WBCs called soldiers of the body?**
(a) They are capable of squeezing out of blood capillaries.
(b) They are manufactured in bone marrow.
(c) They fight against disease causing germs.
(d) They have granular cytoplasm with lobed nucleus.
- (iv) Name the blood cells, whose reduction in number can cause clotting disorder, leading to excessive loss of blood from the body.**
(a) Erythrocytes (b) Neutrophils (c) Leucocytes (d) Thrombocytes

(v) Which of the following is the correct feature of lymph?

- (a) It is similar to the plasma of blood, but is colourless and contains less proteins.
- (b) It is similar to the WBCs of blood, but is colourless and contain more proteins.
- (c) It is similar to the RBCs of blood and red in colour.
- (d) It contains more fats.

IV. Answer the following:

1. Certain tissue in a green plant somehow get blocked and the leaves get wilted. What was the tissue that get blocked?
2. What is the advantage of four chambered heart?
3. In the process of photosynthesis food A is prepared which get converted into food B. What are A and B? Why A is converted to B?
4. Name the respiratory organs of : Fish, Mosquito and earthworm.

Subject: SOCIAL SCIENCE

1. What were the large landowners of Prussia known as?
a) kulaks b) pykars c) mahantas d) Junkers
2. Which state has abundance of water resources but lacks in infrastructural development?
a) Jarkhand b) Madhya Pradesh c) Arunachal Pradesh d) Chhattishgarh
3. Assertion: Soil is the most important renewable resource
Reason: Soil supports different types of living organisms.
a) Both Assertion and Reason are true. Reason is the correct explanation of assertion.
b) Both Assertion and Reason are true. Reason is not the correct explanation to assertion.
c) Assertion is true, but reason is not correct.
d) Assertion is not correct, but reason is true.
4. Match the following crops with their leading producers:
a. Jute (i) Uttar Pradesh
b. Rubber (ii) Andhra Pradesh
c. Sugarcane (iii) West Bengal
d. Rice (iv) Kerala
5. The minority French speaking community was relatively rich and powerful. This was resented by the Dutch speaking community who got the benefit of economic development and education much later. This led to tensions between Dutch speaking and French speaking communities during the 1950s and 1960s. The tension between the two communities was more acute in Brussels. Brussels presented a special problem: the speaking people constituted a majority in the country, but a minority in the capital.
Read the following question and answer.

- 5.1. The capital of Belgium is
a) Amsterdam b) Paris c) Brussels d) Berlin
- 5.2. Which are the ethnic groups of Belgium?
a) Dutch and German b) French and Dutch c) French and German d) None of these
- 5.3. Which community was rich and powerful in Belgium?
a) French b) Dutch c) Dutch and French d) German
- 5.4. Which community was minority in the capital of Belgium?
a) German b) French c) German and Dutch d) Dutch
6. What policies have strengthened federalism in India?
7. Describe different ways to create more employment opportunities in India.
8. Explain nation building process of Germany.

Subject: HINDI

1. संत कबीर दास द्वारा उद्धृत साखी का क्या अर्थ है?
2. संत कबीर ने पंडित होने की क्या परिभाषा बताई है?
3. मीरा बाई के गुरु का नाम लिखिए।
4. 'स्याम म्हाने चाकर राखो जी' किसने किससे और क्यों कहा है?
5. 'बड़े भाई साहब' कहानी की मूल देशना क्या है?

6. मुंशी प्रेमचन्द की कहानियों की कोई तीन विशेषताएँ बताइए।
7. "जो जितना बड़ा होता है, उसे उतना ही कम गुस्सा आता है लेकिन जब आता है तो संभालना मुश्किल हो जाता है।" यह वाक्य किसने और किसके सन्दर्भ में कही है?
8. निदा फाज़ली कौन थे? उनके संबंध में कोई 5 तथ्य लिखिए।
9. एक अच्छी कहानी/कविता में क्या-क्या गुण होने चाहिए? कोई 5 बिन्दुओं में समझाइए।
10. आपके अनुसार संत कबीर के पदों/दोहों का इतना अधिक प्रभाव क्यों है? स्पष्ट कीजिए।

Subject: TELUGU

- I. కింది సందులు అడిగిన విధంగా రాయండి.
 1. ఆయాసంపాటు - సంధి పదం విడదీసి, సంధి సూత్రం రాయండి.
 2. సిద్ధపడు - సంధి పదం విడదీయుము
 3. గజము + పడియె - సంధి పదము కలిపి , సంధి సూత్రం రాయండి.
 4. అశ్యముపడియె - సంధి పదము విడదీయుము.
 5. పుంప్యాదేశ సంధి సూత్రం రాసి, ఉదాహరణలు రాయండి.
 6. పేదరాలు - సంధి పదం విడదీసి, సూత్రం రాయండి.
 7. గుణవంత + ఆలు - సంధి కలిపి సూత్రం రాయండి.
 8. పేదాది శబ్దాలు అంటే ఏమిటి?
- II. కింది అడిగిన విధంగా ఛందస్సు రాయండి.
 1. "నీరమె శుక్తిలో బడి మణిత్యము గాంచు సమంచిత ప్రభాన్" - గణ విభజన చేసి, పద్య లక్షణాలు రాయండి.
 2. "పట్టుగ నీశ్వరుండు తన పాలిట నుండి పుడిచ్చినంతలో" - గణ విభజన చేయండి.
 3. నరుగుచు గాకి రెట్టయిడి నందున నేమి కొరంత భాస్కరా !- గణ విభజన చేసి, పద్య లక్షణాలు రాయండి.
 4. "బరహితమే యొనర్చు నొక పట్టున నైనను గీడు జేయగా "
- III. కింది అడిగిన విధంగా సమాసాలు రాయండి.
 1. త్రిజగంబులు - విగ్రహ వాక్యం రాసి, లక్షణం రాయండి.
 2. ద్వంద్వ సమాసం - లక్షణం రాసి, ఉదాహరణలు రాయండి.
- IV. కింది అడిగిన విధంగా అలంకారములు రాయండి.
 1. శ్రీమంత చొక్కా మల్లెపూవులా తెల్లగా ఉంది. - ఇది ఏ అలంకారమో రాసి, సూత్రం రాయండి.
 2. అతిశయోక్తి అలంకారం రాసి, ఉదాహరణలు రాయండి.
- V. కింది పదములకి పర్యాయ పదములు రాయండి.
 1. కానుక 2. సందేహం 3. రాత్రి 4. స్నేహము 5. అన్యతము 6. శరీరము
- VI. కింది ప్రశ్నలకి జవాబులు రాయండి.
 1. 'సంసార విషవృక్షమునకు రెండు ఫలము లమృతతుల్యములు ' పాటాన్ని ఆధారంగా చేసుకొని రాయండి.
 2. "పల్లెటూళ్ళు ప్రశాంత జీవిత సౌఖ్యానికి పుట్టిళ్ళు" దీన్ని సమర్థిస్తూ సమాధానం రాయండి.
 3. అమరావతి సాంస్కృతిక వైభవాన్ని వివరించండి.
 4. శివాజీ వ్యక్తిత్వాన్ని విశ్లేషించండి.

5. సీతారామలక్ష్మణుల వనవాసయాత్రను వివరించండి.

VII. కింది పద్యములకి ప్రతిపదార్థములు రాయండి.

1. శివరాజంతట మేల్ముసుంగు తప్పు సైరింపుము !
2. నీరము తప్తలోహమున మధ్యము నుత్తము గొల్చువారికిన్.

VIII. కింది వ్యాసములు రాయండి.

1. మాతృభాషలో విద్యాబోధన
2. లలిత కళలు

Subject: SANSKRIT

1. పంచ అశ్రుద్ధిసంశోధన వాక్యాని లిఖత |

2. పంచ భాషికకార్య ప్రశ్నాన్ లిఖత | (from syllabus 4 lessons)

3. పంచ సమాస వాక్యాని లిఖత |

4. పంచ వాచ్యపరివర్తన వాక్యాని లిఖత |

5. అర్థాన్ చిన్తుత ఇతి పంచ ప్రశ్నా: లిఖత |