



DELHI PUBLIC SCHOOL

VISAKHAPATNAM STEEL PLANT

ASSIGNMENT JUNE - JULY 2020

Class: X

Subject: ENGLISH

Class X English Assignment - July 2020

I. Complete Reading Comprehension 1 & 2 Page 45-50 in WorkBook.(Words & Expressions)

II. Fill up with the right option –

III. Energy is _____(an, for) essential driver for development . It is now _____(clear, clearly) recognized as one of the sustainable development goals _____ (for , being) discussed at the international level. There is _____ (a, the) huge opportunity being created because of technological development and countries _____ (needing , need) to see _____(which, how) they can exploit these opportunities and get better outcomes.

IV. Rearrange to make meaningful sentences-

1. More than / are child workers / the Indian population / five percent of
2. Engaged / tens of thousands / are chiefly / in agriculture
3. Work / of industries / many / in urban areas / in a variety

V. Write the **missing word** along with the **word** that comes **before** and **after** it.

The popular musical rhythm known Forro originated (a)
in the northeast Brazil and is now popular (b)
all over country. Besides music the country is (c)
famous its beaches, or you can walk down (d)
narrow streets and buy the markets and fairs (e)
and see people beautiful handicrafts. Visitors can (f)
also take buggy rides other beaches or (g)
watch dolphins the shore of its other beaches. (h)

VI. Answer the following briefly-

- 1) Why did the young seagull feel miserable on the ledge?
- 2) What risk did the writer take while flying? Why?
- 3) What characteristics of sickness did the dog show when Mrs Pumphrey called the doctor?
- 4) Why was it difficult to rob Anil ?
- 5) How had Anil been earning money?

Subject: MATHEMATICS

1. ABC is a right triangle right angled at B. AD and CE are the two medians drawn from A and C respectively. If AC=5cms and AD= $3\sqrt{5}/2$ cms. Find the length CE.
2. In ΔABC ,if AD is the median ,show that $AB^2 + AC^2 = 2(AD^2 + BD^2)$.
3. ABC is a right angled triangle at A. BL and CM are two medians
Prove that $4(BL^2 + CM^2) = 5BC^2$.
4. ΔABC is similar to ΔDEF . If $AB=2DE$ and area of ΔABC is 56cm^2 . Find the area of ΔDEF .
5. If A, B and C are interior angles of a triangle ABC, then show that $\sin\left(\frac{B+C}{2}\right) = \cos\frac{A}{2}$
6. Find the mean of the following data.

Age	Below30	Below40	Below50	Below60	Below70
No of persons	12	22	47	62	70

7. Prove that $(\cot\theta + \frac{1}{\sin\theta})^2 + (\cot\theta - \frac{1}{\sin\theta})^2 = 2\left(\frac{1+\cos^2\theta}{1-\cos^2\theta}\right)$
8. If $\sin\theta = \frac{c}{\sqrt{c^2+d^2}}$ and $d > 0$, find the values of $\cos\theta$ and $\tan\theta$
9. If $p-1$, $p+3$, $3p-1$ are in AP then find the value of p
10. If the n^{th} term of an AP is $(2n+1)$, find the sum of first n terms of AP.

11. If seven times the 7th term of an AP is equal to eleven times the 11th term, then what will be its 18th term.
12. Find the sum of $(-5) + (-8) + (-11) + \dots + (-230)$
13. How many numbers lie between 10 and 300 which when divided by 4 leave a remainder 3.
14. If m times the m^{th} term of an AP is equal to n times its n^{th} term, find the $(m+n)^{\text{th}}$ term of AP.
15. If 9th term of an AP is zero, Prove that its 29th term is double of its 19th term.
16. Find the mean, mode and median of the following data.

Height in cm	120-130	130-140	140-150	150-160	160-170
No. of girls	2	8	12	20	8

17. Prove that $2(\sin^6 A + \cos^6 A) - 3(\sin^4 A + \cos^4 A) + 1 = 0$
18. If $\sec\theta + \tan\theta = p$, find the value of $\operatorname{cosec}\theta$
19. State and prove Pythagoras theorem.
20. The sum of n terms of AP is $5n^2 - 3n$. Find the AP and also its 10th term.

Subject: PHYSICS

1. The angle between an incident ray and the normal to the surface of the mirror is 40° .
(I) what is the angle of incidence
(ii) what is the angle of reflection.
2. Name the type of mirror used in the following situations (a) Headlights of a car (b) Rear-view mirror of a vehicle (c) Solar furnace.
Support your answer with reason.
3. Find the position of an object which when placed in front of a concave mirror of focal length 20 cm produces a virtual image, which is twice the size of the object, Draw its corresponding ray diagram.
4. The refractive index of dense Flint glass is 1.65 and alcohol is 1.36 (with respect to air). What is the refractive index of the dense Flint glass with respect to alcohol?
5. A. Draw a ray diagram to show the formation of image of an object placed between infinity and optical center of a concave lens.
B. A concave lens of focal length 15 cm forms an image 10 cm from the lens. Calculate the distance of object from lens, the nature of the image formed.

Subject: CHEMISTRY

1. Differentiate properties of ionic and covalent compounds.
2. Define covalent bond. What are the types of covalent bonds? Draw structures of at least 3 covalent compounds of each type.
3. Explain why carbon can not form $c+4$ or $c-4$ ions.
4. Define and explain tetravalency and catenation. What is the reason for carbon to show these properties to a large extent?
5. Define homologous series. What are the characteristics of homologous series? Give examples.

Subject: BIOLOGY

- 1) Explain the structure and function of a nephron with the help of a neat labelled diagram.
- 2) Explain how the amount of urine produced is regulated?
- 3) What is haemodialysis?
- 4) What happens when we add our waste to the environment?
- 5) What is an eco-system? What are its components?
- 6) Explain a food chain with the help of an example.
- 7) What is 10% law in a food chain?
- 8) Why energy in a food chain is uni-directional?

- 9) Distinguish between producers and decomposers? Classify the following as producers and decomposers:
green plants, bacteria, fungi, blue-green algae.
- 10) Explain 'Biological Magnification' with the help of an example.
- 11) What will happen if we remove all the organisms in one trophic level?
- 12) Why is the ozone layer getting depleted at the higher levels of the atmosphere?
- 13) What is a food web?

Subject: SOCIAL SCIENCE

1. Describe the features of plantation agriculture.
2. What are the conditions needed for growing sugarcane and wheat?
3. Explain any 3 major problems faced by the new European merchants in setting up their industries in towns before the industrial revolution.
4. How did the industries develop in India in the second half of the 19th century? Explain.
5. Why are sugar mills concentrate in sugarcane producing areas? Explain any three problems faced by the sugar industry in India.
6. Explain any 5 measures to control industrial pollution.
7. Workers are exploited in the unorganised sector. Do you agree with this view? Give reasons to support your answer.
8. How can more employment opportunities be create in the rural areas?
9. What are the characteristics of a political party?
10. How has multi party strengthened democracy in India?

Subject: HINDI

1. निर्देशानुसार उत्तर दीजिए -

(क) पदबंध कितने प्रकार के होते हैं? प्रत्येक के दो-दो उदाहरण देते दीजिए।

(ख) रेखांकित पदबंध के प्रकार बताइए -

(i) सेवा-कार्य में लगे रहने वाले कभी फल की इच्छा नहीं रखते।।

(ii) उसमें पहले की अपेक्षा बहुत सुधार हुआ।

(iii) अब नानी-दादी से कहानियाँ नहीं सुनी जातीं।

(iv) मित्र मंडली के साथ राम खेल में मग्न है।

(v) बाहर से आए हुए छात्रों में कुछ शाकाहारी हैं।

(vi) अपने एक घनिष्ठ मित्र के आने का समाचार सुनकर मैं गदगद हो गया।

(vii) बच्चे थककर चूर हो गए हैं।

(ग) (i) मैं दिल्ली जाकर पढ़ाई करूँगा। (मिश्रवाक्य में बदलिए)

(ii) माली ने पौधे लगाए और चला गया। (सरलवाक्य में बदलिए)

(iii) मैं उनके साये से भागता, उनकी आँखों से दूर रहने की चेष्टा करता। (संयुक्तवाक्य में)

(घ) रंग जमाना, उँगली उठाना, घाव पर नमक छिड़कना (मुहावरों का अर्थपूर्ण प्रयोग कीजिए)

2. निम्नलिखित विषयों पर लगभग 80- 100 से शब्दों में अनुच्छेद लिखिए -

(क) प्रदूषण की समस्या (ख) परोपकार (ग) भारत की विशेषता: अनेकता में एकता

3. नीति, मीठी वाणी/बोली, ईश्वर - भक्ति, परोपकार, ज्ञान - अज्ञान विषयक - संतों या कवियों के (नाम उल्लेख करते हुए) पाँच दोहे संकलित कर चार्ट पेपर पर लिखिए।

Subject: TELUGU

ఐ. ఈ క్రింది పద్యములకు ప్రతిపదార్థము, భావము వ్రాయుము.

1. "ఆ-యేమి? యొక రాణి వాసమును బుణ్యావాసమూన్ దెచ్చినావా?
2. శివరాజంతట మేల్ముసుంగు దెరలో-స్నిగ్ధాబుదచ్చాయలో
3. అనలజ్యోతుల నీ పతివ్రతల బాపచారులై డాయు భూ

II. ఈ క్రింది ప్రశ్నలకు సమాధానము వ్రాయుము.

1. మీ పాఠము ఆధారముగా శివాజీ వ్యక్తిత్వమును విశ్లేషించండి.
2. అమరావతి సాంస్కృతిక వైభవాన్ని వివరించండి.
3. "కష్టం ఒకళ్ళది, ఫలితం మరొకళ్ళది" అని అనడంలో రచయిత ఉద్దేశం ఏమై ఉంటుంది?
4. "సంసార విషవృక్షానికి రెండు ఫలములమృతతుల్యములు" పాఠం ఆధారంగా చెసుకుని వివరించండి.
5. దండకారుణ్యవాస వృత్తాంతమును వ్రాయండి.
6. పంచవటిలో సీతారామలక్ష్మణుల జీవనం ఎలా సాగిందో వివరించండి?

III. ఈ క్రింది అర్థసందర్భములను వ్రాయుము.

1. ఓ జనని హైందవ భూమి నీ పగిది దుశ్చారిత్రమున్ సాగునే.
2. మాతా! తప్పు సారింపు మీ!
3. వరికుప్పచేలో నీరు పడ్డది నీవు రావాలి.
4. చల్లుడాంధ్ర లోకమున నక్షత్రలు నేడు.
5. అనృతమాడుటకంటే మౌనమే మేలు.

IV. ఈ క్రింది వృత్త పద్య లక్షణములను తెలియజేయుము.

1. శార్దూలము
2. మత్తేభము

V. ఈ క్రింది సమాసములను వ్రాయుము.

1. ద్విగు సమాసము
2. ద్వంద సమాసము

VI. ఈ క్రింది అలంకారములను తెలియజేయుము.

1. ఉపమాలంకారము
2. అర్థాంతరన్యాసాలంకారము

VII. ఈ క్రింది పదములకు పర్యాయపదములు వ్రాయుము.

1. అంబుదము
2. పురము
3. రాత్రి
4. అర్థము
5. అనృతము

VIII. ఈ క్రింది లేఖ వ్రాయుము

1. మీ పాఠశాలలో జరిగిన ఆటలపోటీ గురించి వివరిస్తూ హైదరాబాద్ లోని వివేకానంద పాఠశాలలో చదువుతున్న నీ మిత్రుడు రాజేష్ కు లేఖ వ్రాయుము.

Subject: SANSKRIT

- 1) व्यायामः सदा पथः पाठ के श्लोको को लिखकर अन्वय भी लिखिए ।
- 2) व्यञ्जन सन्धि तथा विसर्ग सन्धि के पाँच - पाँच उदाहरण लिखिए ।
- 3) अव्ययीभव-, द्वन्द्वः तथा तत्पुरुष समास के पाँच- पाँच उदाहरण लिखिए ।
- 4) इदानीम्, उच्चैः, च, श्वः, ह्यः, अद्य, अत्र-तत्र, यत्र -कुत्र अव्ययपदों का वाक्यप्रयोग करे ।
- 5) मतुप, त्व, टाप्, -प्रत्ययो के पाँच पाँच उदाहरण लिखिए ।