ST. ANGEL'S SCHOOL

AUTUMN HOLIDAYS

HOMEWORK(2018-19)

CLASS X

ENGLISH

Section-A

Q1. The following passage has not been edited. There is an error in each line. Write the error and the correction as shown in the example.

	Error	Correction
The crow seemed to be in distress	e.g., The	A
A crow must have known that	(a)...........	....
something is wrong because it	(b)...........	....
kept on flying up and circle the	(c)	....
tree, reluctant to settled in it	(d)............	....
and reluctant on fly away.	(e)...........	....

Q2. Rearrange the following word clusters to form meaningful sentences as given in the example.
   Example: are/values/moral/for/life/important
   Moral values are important for life.
(a) build/character/they/the
(b) choice/it/make/right/the/and/easier/to/make
(c) also/they/help/to/succeed/life/in/us
(d) are/values/smooth/for/a/civilised/of/functioning/the/necessary/society
(e) help/whenever/us/the/in/to make/choices/doubt/right/they

Q3. You are Madhav/Madhu, 4/7, Wonderful Street, Bikaner. Write a letter to the Editor of a newspaper on how outdoor games have been replaced by mobile phones, video games, internet and play station in about 100-120 words.

<div align="center">or</div>

Q3. In 200-250 words write a story based on the hints given below:
A long wait for bus- people impatient- a large crowd- a lot of confusion-felt the pocket being touched- looked around- caught the hand-and............

Q4. Answer the following questions in 30-40 words each:
(a) How do we know that Patol Babu was a perfectionist?
(b) Why does the poet decide to stand and wait till the snake finished drinking?
(c) Who was Michael Dawson and how did he help Sebastian Shultz?

<div align="center">

Section-B

2
</div>

Q1. Read the following conversation carefully and complete the following passage by filling in the blank spaces appropriately.

1. Patient: Doctor, I have a terrible toothache.
   Doctor: Well, sit down. I need to examine your teeth. Please open your mouth wide.
   Patient : Is there any serious problem, doctor?

   The patient told the doctor (a) _____ The doctor told him to sit down as (b) _____He also requested the patient (c) _____ The patient then enquired (d) _____

2. Amritash: When will you meet me?
   Henry: I think that I will come to your home on Sunday.
   Amritash: Ok! Then I will wait for you.

   Once Amritash telephoned Henry and asked (a) _____. Henry replied (b) _____on Sunday. Amritash claimed that (c) _____

Q2. Underline each error and write the correction in the space provided.

One morning, the Nawab call a) _____
his minister and said him b) _____
that I wanted the length and c) _____
breadth from the earth d) _____
measured. He also feel the e) _____
need to have the stars on the f) _____
sky counted. The minister says g) _____
that the task he have been h) _____
set being impossible. i) _____

Q3. Video games, Internet, cell phones and high tech gear are just part of growing up in the digital world. But parents are concerned about the amount of time their children spend with these and worry that it might be distracting and cramping academic and social development. Write an article in 120words describing both benefits and harms of high tech devices.

Q4 Answer the following questions in 30-40 words .
a)   What were the changes that Abel Merry weather made in his will?
b)   Explain the couplet of the poem 'Not Marble nor the Gilded Monuments'
c)   Who was Ozymandias? and Why did he get his statue made?
d)   Bring out the conflict that is presented in the poem 'Snake'.
e)   What lesson do you learn from Michael Dawson and Sebastian Shultz in 'Virtually True'?

हिंदी

भाग क

- निम्नलिखित प्रश्नों के उत्तर दीजिए (50 से 60 शब्दों में) —

i. अपनी अथवा अपने अभिभावकों के जीवन की किसी ऐसी घटना का उल्लेख कीजिए, जब शुद्ध आदर्श से हानि-लाभ हुआ हो।

ii. लेखक ने यह क्यों कहा है कि 'धरती किसी एक की नहीं है।' 'अब कहाँ दूसरों के दुख में दुखी होने वाले' पाठ के आधार पर अपने विचार व्यक्त कीजिए।

iii. 'तताँरा-वामीरो कथा' के माध्यम से लेखक क्या संदेश देना चाहता है? अपने शब्दों में लिखिए।

iv. 'पर्वत प्रदेश में पावस' पाठ के आधार पर पर्वतीय क्षेत्र की सुंदरता का वर्णन अपने शब्दों में कीजिए।

v. 'मनुष्यता' कविता में वर्णित मुख्य नैतिक गुण क्या है? लिखिए।

vi. बिहारी ने किन बाहरी आडंबरों का खंडन किया है? दोहों के आधार पर लिखें।

vii. **आप अपने विद्यालय के खेल-क्लब के सचिव गौरव/गीतिका हैं। अंतरविद्यालय फुटबॉल प्रतियोगिता में भाग लेने की अनुमति प्राप्त करने हेतु विद्यालय के प्रधानाचार्य को प्रार्थना पत्र लिखिए।**

viii. **मेक इन इंडिया योजना पर दो बेरोजगार युवाओं के मध्य संवाद लिखिए।**

भाग ब

लेखन

i. **आप इस वर्ष दशहरे के अवसर पर विद्यालय के प्रांगण में मेले का आयोजन करना चाहते हैं। इसी से संबंधित सूचना विद्यालय के सूचना पट्ट के लिए लिखिए।**

ii. **'नैतिक पतन, देश का पतन' इस विषय पर अनुच्छेद लिखिए —**

  संकेत बिंदु :- नैतिकता का अर्थ, नैतिकता का महत्व, देश का पतन

iii. **पर्यावरण विभाग की ओर से जल संरक्षण का आग्रह करते हुए विज्ञापन तैयार कीजिए।**

MATHS

CHAPTER -9 APPLICATION OF TRIGNOMETRY

SECTION- A

Q1 If the height of a tower is equal to the length of shadow at a particular time then find the angle of sun's altitude.

Q2. The shadow of a tower standing on the level ground is found to be 60m shorter when the sun's altitude changes from 30° to 60°, find the height of tower.

Q3 From a window 20m high above the ground in a street, the angle of elevation and depression of the top and the foot of another house opposite side of the street are 60° and 45° respectively. Find the height of opposite house.

Q4. A person standing on the bank of a river observes that the angle of elevation of the top of a tree standing on the opposite bank is 60°. When he moves 40m away from the bank he finds the angle of elevation to be 30°. Find the height of the tree and the width of the river.

Q5 From a point on the ground, 30m away from the foot of tower, the angle of elevation of the top of tower if 60°. Find the height of tower

SECTION-B

Q1. The angle of elevation of a bird from a point on the ground is 60°, after 50 seconds flight the angle of elevation changes to 30°. If the bird is flying at the height of $500\sqrt{3}$ m. Find the speed of the bird.

Q2. The angle of elevation of a jet fighter plane from a point A on the ground is 60°. After a flight of 15 seconds, the angle of elevation changes to 30°. If the jet is flying at a speed of 720 km/h. Find the constant height at which the jet is flying. (Take $\sqrt{3}$ = 1.732).

Q3. An aeroplane flying at a height of 1800m observes angles of depressions of two points on the opposite bank of the river to be 60° and 45°, find the width of the river.

Q4. The angle of elevation of the top of a 10m high building from a point P on the ground is 30°. A flag is hoisted at the top of the building and the angle of elevation of the top of the flag staff from P is 45°. Find the length of the flag staff and the distance of the building from point P.

Q5. The angle of elevation of a bird from a point 12 metres above a lake is 30° and the angle of depression of its reflection in the lake is 60°. Find the distance of the bird from the point of observation.

CHAPTER-14 STATISTICS

SECTION- A

Q1 Find mean , median , mode of the following data

MARKS	0 -10	10 – 20	20 – 30	30-40	40- 50	50 – 60
NUMBER OF STUDENTS	4	7	12	11	6	5

Q2 If mean of the following data is 54, then find the P (missing frequency).

Classes	0-20	20-40	40-60	60-80	80-100
Frequency	7	P	10	9	13

Q3 If mean of the following data is 50, then find the missing frequencies.

Classes	0-20	20-40	40-60	60-80	80-100	Total
Frequency	17	F_1	32	F_2	19	120

Q4 If median of the following data is 24, then find the missing frequency.

Age in years	0-10	10-20	20-30	30-40	40-50
Number of persons	5	25	?	18	7

SECTION-B

Q1 If Mean of fifteen observations is 256, mean of first eight observations is 130 and mean of last eight observations is 240. Find eighth observations.

Q2 If mean of 10 observations is 34. One item is deleted from the lot and new mean is 33 ,then find deleted observation.

Q3 If mean of 15 observations is 53. One item is added to the lot and new mean is 52 ,then find added observation.

SCIENCE
PHYSICS

Chapter- 12 Electricity

Section- A

1. The atoms of copper contain electrons and the atoms of rubber also contain electrons. Then why does copper conduct electricity but rubber does not conduct electricity?

2. Which is the better way to connect light and other electrical appliances in domestic wiring: series circuits or parallel circuits? Why?

3. Why is an electric light bulb not filled with air? Explain why argon or nitrogen is filled in an electric bulb.

4. A heating coil has a resistance of 200 Ω. At what rate will heat be produced in it when a current of 2.5 A flows through it?

5. Why are the coils of electric irons and electric toasters made of an alloy rather than a pure metal?

Section- B

1. **An electric heater is connected to the 230 V mains supply. A current of 8 A flows through the heater.**

   a. How much charge flows around the circuit each second?
   b. How much energy is transferred to the heater each second?
2. **How does the resistance of a wire change when:**
   a. its length is doubled?
   b. its diameter is doubled?
   c. its material is changed to one whose resistivity is three times?

3. A wire that has resistance R is cut into two equal pieces. The two parts are joined in parallel. What is the resistance of the combination?

4. A resistor has a resistance of 176 ohms. How many of these resistors should be connected in parallel so that their combination draws a current from a 220 volt supply line?

5. Show with the help of diagrams, how you would connect three resistors each of resistance 6 Ω, so that the combination has resistance of (i) 9 Ω   (ii) 4 Ω

CHEMISTRY

Chapter-4 Carbon and its compounds

SECTION A

1. What is the effect of drinking methanol?

2. What is the function of conc. H_2SO_4 in the formation of ethane from ethanol?

3. Name the reaction which is commonly used in the conversion of vegetable oils to fats. Explain the reaction involve in detail.

4. Write the structural formula of all the isomers of hexane.

5. Write the structures of the following:

   a) Pentanoic acid

   b) Butyne

   c) Heptanal

   d) Pentanol.

6. Explain the given reactions with examples.

   a) Hydrogenation reaction

   b) Oxidation reaction

   c) Substitution reaction

   d) Saponification reaction

   e) Combustion reaction.

SECTION B

7. Two compounds A and B have the molecular formula C_3H_6 and C_3H_8 respectively. Which one one of the two is most likely to show addition reaction? Justify your answer.

8. How will you convert ethanoic acid to methane? Explain with the help of equations of the reactions involved.

9. Why do we add ethanol to petrol these days? Give one use of ethanol in medicines.

10. Give the test to distinguish:

    a) Ethane from Ethene.

    b) Ethanol to Ethanoic acid.

BIOLOGY

Chapter 9   Heredity and Evolution

Q.1 In which type of reproduction a number of successful variations are produced?

Q.2 Differentiate between inherited and acquired traits

 Q.3 What is the information source for making proteins in the cell?

Q.4 Give reason why a girl and her first cousin are related, but less related than the girl and her brother.

Q.5. What are the seven visible contrasting traits of pea plant? Also categorise them into dominant & recessive traits.

SECTION B

Q.1 What did mendel find in the F3 generation when he self-pollinated short plants of the F2 generation? Why?

Q.2 Give examples of animals where sex determination is not genetically determined?

Q.3 Why are traits acquired during the life-time of an individual not inherited?

Q.4 What are the two causes of inbuilt tendency of variation during reproduction?

Q.5 How can we say that a child has two versions of a trait?

Q.6 The genotype of purple flowered pea plants is denoted as WW and that of white flowered pea plants as ww. When these two are crossed

(a) What colour of flowers would you expect in their F1, if F1 plants are self-pollinated?

(c) In what ratio would you find the genotypes WW, Ww and ww in progeny?

(b) What will be the percentage of white flowered plants produced as the F2 progeny?

SOCIAL SCIENCE

History and Political Science

Section A

1. What were the steps taken to reduce smoke in Calcutta?

2. What are the reasons for the popularity of novels?

3. Describe the Scholar revolt

4. Who wrote " the bitter cry of outcast London"

5. What is the basic idea behind Decentralisation in India

Section - B

1 .What is the status of women's representation in Indian legislative bodies?

2. Differentiate between overlapping and crosscutting.

3. Mention the features of a city. Discuss its importance.

Geography & Economics

Section- A

1. What are the advantages of multipurpose river projects?

2. Differentiate between the two sectors of credit.

3. Explain resource planning and its steps

4. What is Agenda 21?

5. What is the importance of tertiary sector in Indian economy?

Section - B

1. Which sector of economy holds the maximum importance? Give reasons.

2. What is bamboo drip irrigation system? Explain.

3. Compare the growth pattern of cotton and jute.

"All the students must wear winter uniform from 22-October 2018, excluding blazers or sweaters."