



**Pakistan International School Azizia Jeddah**  
**SUMMER VACATION HOMEWORK**

**Physics 11**

**NOTE: Students will return this homework in hand written form on A4 loose sheets**

**Answer the following short questions:**

1. Find the dimensions of latent heat and specific heat.
2. The voltage  $V$  is measured as  $(7.3 \pm 0.1)V$  and current  $I$  is measured as  $(2.73 \pm 0.05)A$ . Calculate the resistance  $R$  by using ohm's law as  $R = V/I$ .
3. Using dimensional analysis find the correct relation
  - a)  $F = mv^2/r^2$
  - b)  $F = mv^2/r$
4. Differentiate between precision and accuracy.
5. Explain why all measurements contain some uncertainty?
6. Ohms,  $\Omega$  is the derived unit for electrical resistance. Express Ohms in base units.
7. Is it possible to add vector quantity to a scalar quantity?
8. Can magnitude of the vector be a negative value?
9. Show that  $(A \cdot B) + (A \times B) = A^2 B^2$
10. A football strikes a ball at an angle of  $54^\circ$  at a speed of  $21 \text{ m/s}$ . determine the horizontal and vertical components of the velocity.
11. Dot product of two vectors  $\mathbf{a}$  and  $\mathbf{b}$ , with equal magnitude, is 8. If the angle between them is  $60^\circ$ , find product of their magnitude.
12. Compute the cross product  $\mathbf{A} \times \mathbf{B}$ , where  $\mathbf{A} = (1, 6, 0)$  and  $\mathbf{B} = (-2, 5, 0)$ .
13. An insect is creeping on the floor of the kitchen. Selecting one corner of the kitchen as an origin of the rectangular coordinate system, if the coordinates of the insect are  $(2, 1, 0)$  in units of meter. Find the distance of the insect from the corner of the kitchen.
14. Derive Third equation of motion with the help of speed time graph.
15. Prove that for two bodies colliding elastically, relative speed of approach before collision is equal to relative speed of separation after collision.
16. By applying law of conservation of momentum, prove that recoiling of the gun is given by the following relation,  $V = -(m/M)v$
17. A rock is thrown horizontally off a  $100\text{m}$  cliff. It lands  $95\text{m}$  away. At what speed was it thrown?
18. Give three real life examples of elastic and inelastic collisions.
19. A new model BMW can start from rest and travel  $400\text{m}$  in  $16\text{s}$ .
  - a) What is the average acceleration during this time?
  - b) Calculate the final speed of the car.
  - c) How fast is this speed in  $\text{km/h}$ .
20. How a karate player is able to break a pile of tiles with a single blow?

**Project work:**

Make a project on ***Projectile Motion***. It should cover the following points.

- Definition
- Examples
- Projectile launched at an angle and thrown horizontally and derivation of important terms
- Diagrams

Use this link to have a sample of your project work.

<https://images.app.goo.gl/2TF2fmt99NaKkki2A>



**Pakistan International School Jeddah Senior Girls  
Section (2024-25)**

**Islamic Education Class 11<sup>th</sup> Summer Vacation Task**

**Prepared by: Asma Traiq**

**Short Questions**

1. Write down the names of Archangels and describe their duties.
2. What would be the result if there were two gods in this world according to the Holy Qur'an?
3. What are the literal meanings of Wahi and How many ways are there of revelation?
4. Write four common characteristics of Divine Books, and to whom those were revealed?
5. What is the difference between a prophet and a messenger?
6. Write the literal meaning of shirk and describe the three types of shirk.
7. How Aqidah Tawheed affect your life?
8. What are the doubts of Non-Believers regarding the world hereafter and what did Allah answer to their doubts?
9. Write a note on the Finality of Prophethood/ Khatm-e-Nabuwat?
10. Write five main characteristics of the Holy Quran.
11. How Salah prevents us from evil. Explain .
12. Define Khums and Ushar.
13. Write the names of Siha-e-Sittah and also write their compiler's names.
14. What is the difference between Makki and Madni Surahs?
15. How can you relate the given hadith in your practical life?

-l- مَنْ يُرِدِ اللَّهُ بِهِ خَيْرًا يُفَقِّهْهُ فِي الدِّينِ. صحيح بخارى  
-li- نِعْمَتَانِ مَغْبُونٌ فِيهِمَا كَثِيرٌ مِنَ النَّاسِ الصِّحَّةُ وَالْفَرَاغُ ( صحيح بخارى )

2. اگر قرآن پاک کے مطابق اس دنیا میں دو خدا ہوتے تو کیا نتیجہ نکلتا؟
  3. وحی کے لغوی معنی کیا ہیں اور وحی کے کتنے طریقے ہیں؟
  4. آسمانی کتابوں کی چار مشترک خصوصیات لکھیں، اور یہ کس پر نازل ہوئیں؟
  5. نبی اور رسول میں کیا فرق ہے؟
  6. شرک کے لغوی معنی لکھیں اور شرک کی تین اقسام بیان کریں۔
  7. عقیدہ توحید آپ کی زندگی کو کیسے متاثر کرتی ہے؟
  8. کافروں کے دنیا آخرت کے بارے میں کیا شکوک و شبہات ہیں اور اللہ نے ان کے شکوک کا کیا جواب دیا؟
  9. ختم نبوت/ختم نبوت پر نوٹ لکھیں؟
  10. قرآن پاک کی پانچ اہم خصوصیات لکھیں۔
  11. نماز ہمیں برائی سے کیسے روکتی ہے۔ وضاحت کریں۔
  12. خمس اور عشر کی تعریف کریں۔
  13. صیغہ ستہ کے نام لکھیں اور ان کے مرتب کرنے والوں کے نام بھی لکھیں۔
  14. مکی اور مدنی سورتوں میں کیا فرق ہے؟
  15. دی گئی حدیث کو اپنی عملی زندگی میں کیسے جوڑ سکتے ہیں؟
- I - مَنْ يُرِدِ اللَّهُ بِهِ خَيْرًا يُفَقِّهْهُ فِي الدِّينِ. صحيح بخاری
- II - نِعْمَتَانِ مَغْبُونٌ فِيهِمَا كَثِيرٌ مِنَ النَّاسِ الصِّحَّةُ وَالْفَرَاغُ (صحيح بخاری 6412)

## 16. Al-Quran Surah Baqarah:

**Read the translation of Surah Baqarah and Find the answers of the given Questions.**

Question 1: Why is Surah Al-Baqarah named Al-Baqarah?

Question 2: Name any ten blessings that Allah has brought forth for us from the earth.

Question 3: In the initial verses of Surah Al-Baqarah, which three groups are mentioned?

Question 4: What does Allah not shy away from giving examples of?

Question 5: What are the signs of believers mentioned in Surah Al-Baqarah?

Question 6: What kind of disease has Allah placed in the hearts of the hypocrites, causing it to increase?

Question 7 Who was Talut and Jalut?

Question 8: Who are referred to as the deaf, dumb, and blind people?

Question 9: What kind of punishment has Allah prepared for the hypocrites?

Question 10: About whom did Allah say that He mocks them and lets them wander in their transgression?

سوال 1: سورہ البقرہ کا نام البقرہ کیوں رکھا گیا ہے

سوال 2: اللہ نے زمین سے ہمارے لیے جو دس نعمتیں نکالی ہیں ان کے نام بتائیں؟

سوال نمبر 3: سورہ بقرہ کی ابتدائی آیات میں کن تین گروہوں کا ذکر ہے؟

سوال نمبر 4: اللہ کس چیز کی مثال دینے سے نہیں شرماتا؟

سوال نمبر 5: سورۃ البقرہ میں مومنین کی کیا نشانیاں بیان کی گئی ہیں؟

سوال نمبر 6: اللہ تعالیٰ نے منافقین کے دلوں میں کون سی بیماری ڈال دی ہے جس کی وجہ سے اس میں اضافہ ہوتا ہے؟

سوال 7 طالوت اور جالوت کون تھے؟

سوال 8: بہرے، گونگے اور اندھے کس کو کہا جاتا ہے؟

سوال نمبر 9: اللہ تعالیٰ نے منافقوں کے لیے کس قسم کا عذاب تیار کر رکھا ہے؟

سوال نمبر 10: اللہ تعالیٰ نے کس کے بارے میں فرمایا کہ وہ ان کا مذاق اڑاتا ہے اور انہیں اپنی سرکشی میں بھٹکنے دیتا ہے؟

### **Project Work:**

**Prepare a powerpoint presentation regarding the 2nd pillar of Islam (Salah). The powerpoint presentations should include the importance of Salah , Quranic verses ,Ahadith regarding Salah and its collective benefits.**



## **Pakistan International School Azizia**

### **Senior Girls Section (2024-25)**

#### **Summer Vacations Homework**

#### **Psychology HSSC-I**

**Answer these questions:**

1. Who is called “the father of psychology”?
2. Psychology emerged from which subject?
3. What is the meaning of Psychology?
4. Which was the first definition of psychology?
5. Why was the first definition of psychology rejected?
6. Which was the third definition of psychology?
7. What is the best definition of Psychology?
8. Give any 2 reasons for the best definition of psychology?
9. How can you define Stimulus?
10. How many Goals of psychology are there?
11. Describe any 2 responsibilities of Educational Psychologist?
12. Name 2 contexts of Environmental Psychology?
13. What is the difference between “Crime and Criminal”?
14. Describe any 3 duties of Industrial psychologist?
15. What is the difference between introspective and extrospective method?
16. Stages of Survey method.
17. Give any three examples of Day book method.
18. Enlist requirements of experimental method.

19. How you can modify the behaviour of a naughty child at your home?

20. How your mood can affect your perception?





Pakistan International School Al-Azizia Jeddah

**SUMMER VACATION HOMEWORK**

**CHEMISTRY HSSC-I**

Prepared By: Ms Sundas Ubaid

**NOTE:** Students will return this homework in hand written form on A4 loose sheets

**DO AS DIRECTED. ( SHORT QUESTIONS)**

**Q1:** Briefly explain Atomic Background of Atomic Chemistry.

**Q2:** How you can we relate Schrodinger's cat experiment with Quantum Mechanics?

**Q3:** Why is the cation always smaller than the parent atom, and anion is bigger than the parent atom? Justify the statement.

**Q4:** Why 3d orbital has greater energy than 4s orbital? Explain  $n+l$  rule.

**Q5:** Analyze the working & data of Mass Spectrometry.

**Q6:** Explain the periodic trends of Ionization Energy with Jutification.

**Q7:** Draw the Molecular orbital energy diagram for oxygen molecule, Analyze Bond order & magnetic Properties.

**Q8:** Elaborate the angle & shape (Geometry) of Ammonia, methane & water according to the VSEPR Theory.

**Q9:** Predict the geometry of ammonia & ammonium ion according to VSEPR theory.

**Q10:** Acetylene shows  $sp$  Hybridization. Justify the statement.

**Q11.** Tetrachloromethane is a non polar molecule. Draw a diagram to show the shape of the molecule. Explain why this molecule is non-polar?

**Q12.** Why ice is less dense than Liquid Water?

**Q13.** Why Actual yield is less than that of Theoretical Yield?

**Q14.** When  $CO_2$  & Water will react together then Carbonic Acid will be produced, If 120 grams of  $CO_2$  is dissolved in 80 grams of water, Identify (a) Limiting Reagent (b) Calculate the maximum amounts of products (in grams ) formed?

**Q15.** Ammonia Solvay process is used to manufacture sodium carbonate. During this process ammonia is recovered by the following reaction.



$2\text{NH}_4\text{Cl} + \text{Ca}(\text{OH})_2 \rightarrow \text{CaCl}_2 + 2\text{H}_2\text{O} + 2\text{NH}_3$ . When 100 g of ammonium chloride and 150 g calcium hydroxide are used then (At. Mass N=14 H=1 Cl= 35.5 Ca=40) i. Calculate the mass in kg of ammonia produce during chemical reaction. ii. Calculate the excess mass in gram of one of the reactant left unreacted.

Q16.  $\text{I}_2$  is produced by the reaction of 0.4235 mol of  $\text{CuCl}_2$  according to the following equation:  
 $2\text{CuCl}_2 + 4\text{KI} \rightarrow 2\text{CuI} + 4\text{KCl} + \text{I}_2$

(a) How many molecules of  $\text{I}_2$  are produced?

(b) What mass of  $\text{I}_2$  is produced?

Q17. Evaluate effect of Temperature on Viscosity?

Q18. Differentiate between Liquid Crystal from pure Liquid and crystalline solids.

Q19. Interpret the phenomenon of Surface Tension.

Q20. Evaporation cause cooling. How different factors affecting Evaporation?

## PROJECT

Make a Project on the Topic of **Hybridization** & make booklet to have record of your Creative work. -----

Website Link: <https://www.khanacademy.org/science/physical-chemistry-essentials/x98cdf762ed888601:some-basic-concepts-of-chemistry/x98cdf762ed888601:stoichiometry/a/stoichiometry-article>





*Pakistan International School Jeddah, Azizia*

*Federal Section – Seniors Girls Wing*

*Computer Science*

*Grade – 11*

*Summer Holiday Homework*

*Session 2024-25*



### Instructions for Homework

- ✚ The Holiday work must be done in a very neat and presentable manner.
- ✚ Questions must be done in the given sequence.
- ✚ Use good quality pencil, eraser, pen to maintain the tidiness in the notebooks.
- ✚ For written work maintain Homework Files/Folders.

### Section A

**Write short answers of following questions.**

1. Design logic circuit for the given Boolean Function.  $F1 = xy'z' + x'y'z + x'yz'$
2. Construct the truth table of  $F2 = x'y'z + yz + xz$
3. Simplify the mentioned Boolean Function by using Karnaugh map.  
 $E1 = xz + yz' + y'z'$
4. Government software projects often have strict requirements and deadlines. Suggest which SDLC model ensures these requirements are met, and the software is delivered on time. Justify your answer.
5. Complete a trace table to determine the final state of the variables in this pseudocode.

```
sum ← 0
N ← 10
WHILE N < 40
    sum ← sum + N
    OUTPUT N, SUM
    N ← N + 5
END WHILE
```

6. Consider the ordered list. Explain how does binary search algorithm work to find the number 11.

Position in data set	0	1	2	3	4	5	6	7	8
Data value	1	3	4	5	7	9	11	14	16

7. How does ring topology differ from dual ring topology?
8. Write down the key characteristics of cloud computing.
9. Differentiate between Horizontal and Vertical Scalability.
10. Write down few common signs of a phishing email.



11. How does bubble sort algorithm work?
12. Consider the unsorted list and sort it by using bubble sort algorithm.

Position in list	0	1	2	3	4
Data value	9	4	2	6	5

13. A company has offices in four different countries. Communication and data sharing between the offices is done via computers connecting over the Internet.
  - a) Describe three (3) data security issues the company might encounter during their day-to-day communications and data sharing.
  - b) For each issue described, explain why it could be a threat to the security of the company.
14. Write advantages and disadvantages of Tree Topology.
15. What is an example of two-factor authentication cyber awareness?
16. Explain the difference between symmetric and asymmetric encryption.
17. Write an algorithm to print multiplication table in reverse order.
18. Draw a flowchart of a program that inputs marks and prints the message "pass" or "fail". Passing marks are 33.
19. Use trace table to test the accuracy of the logic of the following pseudocode by inputting the following test data 12,23,34,0

```

Sum = 0
read Number
While number <> 0 do
    Sum = Sum + Number
    read Number
endwhile
print "Sum of number is", Sum
  
```

20. Suppose you design your own computer game. Explain how computational thinking properties would apply on it.



## Section B

### Instructions for Online Task

- ✚ To make studies more interesting links of MCQs are added below.
- ✚ Click on the provided links and solve the quiz.
- ✚ After completing each quiz take a screen shot and add in word document.
- ✚ You have to post screen shot of all these quiz in Google classroom as a proof of completion of task.

<https://quizizz.com/embed/quiz/66536a467d278a7d94c9e0db>

<https://quizizz.com/embed/quiz/665361612e6d1011046d51de>

<https://quizizz.com/embed/quiz/603bb946e8b6db001d9ced81>

<https://www.liveworksheets.com/node/3245581>

<https://www.liveworksheets.com/w/en/physics/7111595>

## Section c

### Activity

Use the following link to download python:

[www.python.org/downloads](http://www.python.org/downloads)

Write a program in Python:

- ✚ Swap two numbers without using variable.
- ✚ Take three inputs as day, month & year, e.g. your date of birth, store in three variables and print in the form of:
  - 13-09-2023
  - 09-13-2023
  - 2023-09-13

HAPPY  
SUMMER  
HOLIDAYS

# Pakistan International School Jeddah

## Senior Girls sections

### SUMMER BREAK TASK (GRADE-XI)

**Subject:** Mathematics

**By** Arifa Tahir

Part-1: **Short Question.**(marks  $20 \times 2 = 40$ )

i: Find the square roots of a)  $15 + 8i$  b)  $15 + 8i$

ii: Express as partial fraction with complex linear denominator

$$\frac{x+8}{x^2+4x+13}$$

iii: solve  $x^3 + 1$  if one complex root is  $\lambda$  express the other in term of  $\lambda$   
prove that  $\lambda^2 + 1 = \lambda$

iv: Show on Argand the position of  $\frac{1}{3}(2z_1 + z_2)$ .

V: Write down the moduli and argument of  $\frac{-\sqrt{3}+i}{4+4i}$ .

Vi: Given that  $(1+5i)p-2q=3+7i$  find p and q when p and q are conjugate complex Numbers.

Vii: If  $z = \cos\theta + i\sin\theta$  where  $\theta$  is real express  $\frac{1-z^2}{1+z^2}$ . In the form  $a+bi$ .

Viii: show that  $\frac{1}{2}\arg(z-i) = \frac{\pi}{3} - \frac{1}{2}\arg(z+i)$ .

Ix: Find the argument of each root of  $z^2 + 4z + 8 = 0$ .

X: find mod and argument of  $z_1 = i + \sqrt{3}$  and  $z_2 = \sqrt{3} - i$  express  $q = z_1 \frac{1}{z_2}$  in standard form by argand diagram sketch curve by  $|z_1 - z_2| = |q - z_1|$ .

Xi: If  $A = \begin{bmatrix} x & 0 \\ y & 1 \end{bmatrix}$  prove that for all positive integer n  $A^n = \begin{bmatrix} x^n & 0 \\ \frac{y(x^n-1)}{x-1} & 1 \end{bmatrix}$ .

Xii: Find the values of x,y,z If  $A = \begin{bmatrix} 0 & 2y & z \\ x & y & -z \\ x & -y & z \end{bmatrix}$  satisfy the equation  $AA' = 1$

Xiii: If A and B are symmetric matrices, prove that  $AB-BA$  is a skew symmetric matrix.

Xiv: Let  $A = \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix}$ , show that  $(aI + bA)^n = a^n I + na^{n-1} bA$ , where  $I$  is the identity matrix of order 2 and  $n \in \mathbb{N}$

Xv: Find the inverse of each of the matrices, if it exists.  $\begin{bmatrix} 2 & 0 & -1 \\ 5 & 1 & 0 \\ 0 & 1 & 3 \end{bmatrix}$

Xvi: If  $A = \begin{bmatrix} 2a & a \\ a & -2a \end{bmatrix}$ , find the matrix  $A^2$ . Hence find a matrix  $B$  such that  $B^2 = \begin{bmatrix} 20 & 0 \\ 0 & 20 \end{bmatrix}$ .

Xvii.  $F(x) = \begin{bmatrix} \cos x & -\sin x & 0 \\ \sin x & \cos x & 0 \\ 0 & 0 & 1 \end{bmatrix}$ , show that  $F(x) F(y) = F(x + y)$ .

Xviii. If  $A = \begin{bmatrix} 0 & -\tan \frac{a}{2} \\ \tan \frac{a}{2} & 0 \end{bmatrix}$  and  $I$  is the identity matrix of order 2, show that

$$I + A = (I - A) \begin{bmatrix} \cos a & -\sin a \\ \sin a & \cos a \end{bmatrix}$$

Xix: Determine the value of  $\lambda$  for which the following system has no solution, unique solution or infinitely many solutions.

$$x + 2y - 3z = 4; 3x - y + 5z = 2; 4x + y + (\lambda^2 - 14)z = \lambda + 2$$

XX: Show that the system of equations

$$2x - y + 3z = a; 3x + y - 5z = \beta; -5x - 5y + 21z = \gamma$$

Is inconsistent if  $\gamma \neq 2a - 3\beta$ .

## PART-2:

From daily life problems write relation between variables and solve with help of matrices.

For help: <https://www.youtube.com/@mathwithbilal>









Pakistan International School,  
Al-Aziziah, Jeddah (Girls Section)

**Assignment of Summer Vacations**  
**Class XI**

Subject: Business Mathematics

Teacher: Mrs. Munazza Manzoor

Short Question Answer (20 x 2 = 40)

- Express each of the following ratios in its simplest form  $\frac{2}{3} : \frac{1}{6}$
- Bata shoes company has 50,000 pairs of shoes and management like to supply these pairs of shoes to four whole sale dealers in the ratio of 4:7:9:5. how much pairs of shoes should each dealers receives?
- A farmer has 840 acers of land for planting rice , wheat , cotton and fodder in the ratio 5:4:3:2 respectively . what are acers used for each crop.
- The three sides of the triangle are in proportion 4:5:6. If the perimeter is 360 cm. Find the length of each side
- The cost of building 1.5 miles of a certain highway was Rs. 420,000. what was the cost of 4.5 miles of that highway?
- A cylindrical tank 24 feet high , now holds 375 gallons of water 9 feet deep . How many gallons will it hold when full.
- 8 men take 48 hours to dig a garden . How long will be taken by the 12 number of men?
- In a factory 12 men complete the work in 20 days . How long it will take to complete the same work by 8 workers.
- 18 men complete the job in 30 days . How long it will take to complete the job by 12 workers?
- 100 men finished a job in 12 days working 6 hours a day. How many men will do the same job in 15 days to work 8 hours a day ?
- Solve for x,y and z if  $\begin{bmatrix} x & y \\ y & z \end{bmatrix} + \begin{bmatrix} 2x & -y \\ 3y & -4z \end{bmatrix} = \begin{bmatrix} 6 & 0 \\ 8 & 9 \end{bmatrix}$
- Write transpose of the matrix A If  $A = \begin{bmatrix} 3 & 2 & 6 \\ 1 & 4 & 2 \\ 6 & 0 & 7 \end{bmatrix}$
- Find the determinants of  $A = \begin{bmatrix} 2 & 4 \\ 5 & 6 \end{bmatrix}$
- Find the value of x when the given matrix is singular  $\begin{bmatrix} 8 & x \\ 2 & 4 \end{bmatrix}$
- If  $A = \begin{bmatrix} 1 & 2 & 4 \\ 3 & 2 & 0 \\ 6 & 1 & 2 \end{bmatrix}$  and  $B = \begin{bmatrix} 5 & 6 & 5 \\ 1 & 6 & 9 \\ 9 & 0 & 5 \end{bmatrix}$  Find A+B and A-B
- If  $A = \begin{bmatrix} 3 & 1 \\ 2 & 0 \end{bmatrix}$  and  $B = \begin{bmatrix} 4 & -1 \\ 2 & 3 \end{bmatrix}$  Prove that  $AB \neq BA$

17. Find the inverse of  $\begin{bmatrix} 4 & 6 \\ 10 & 8 \end{bmatrix}$

18. If  $A = \begin{bmatrix} -2 & 6 \\ 4 & 7 \end{bmatrix}$  and  $B = \begin{bmatrix} 1 & 3 \\ 0 & 1 \end{bmatrix}$  Prove that  $(AB)^t = A^t B^t$

19. If  $\begin{matrix} 3x - y = 10 \\ 2x + 3y = 3 \end{matrix}$  write these simultaneous equations into matrix form

20. If  $2A + 3B = C$  Find A where  $B = \begin{bmatrix} 1 & 2 \\ 0 & 4 \\ 4 & 0 \end{bmatrix}$   $C = \begin{bmatrix} 3 & -1 \\ 2 & 0 \\ -1 & -1 \end{bmatrix}$

**Project:** Make a project on simple interest vs compound interest (10)

<https://youtu.be/a0NVAarZi00?si=v8KyNlnkY6smnRPy>

Use this link For help



**SUMMER VACATION HOMEWORK**  
**BIOLOGY. HSSC-I**

- Q1. Write a note on the validation of cell theory.
- Q2. How would you compare a light microscope with an electron microscope?
- Q3. Mention some of the functions of plasma membrane proteins.
- Q4. Exhibit a diagrammatic steroid signaling pathway.
- Q5. Enlist all the possible types of stem cells.
- Q6. What are bioelements? Give examples.
- Q7. Differentiate between condensation and hydrolysis with the help of appropriate examples.
- Q8. Mention any 3 properties of water that make it the medium of life.
- Q9. What is enantiomerism? Give examples.
- Q10. How would you classify proteins?
- Q11. What are Terpenes?
- Q12. Differentiate between apoenzyme and holoenzyme.
- Q13. Explain graphically how temperature affects the rate of enzymatic action?
- Q14. Exhibit feedback inhibition diagrammatically.
- Q15. Classify viruses on the basis of host.
- Q16. Show lytic and lysogenic life cycle of bacteriophage by making a labelled figure.
- Q17. What are the symptoms of AIDS?
- Q18. What are opportunistic diseases?
- Q19. How is virus affecting plants? Explain with an example.
- Q20. What are prions and viroids?

**PROJECT**

Draw labelled figures of the following cell organelles on an A4 sheet:

Cell wall

Endoplasmic reticulum

Ribosomes

Golgi complex

Mitochondrion

Chloroplast

Kindly see the attachments below:

[https://biologycorner.com/quiz/qz\\_cell.html](https://biologycorner.com/quiz/qz_cell.html)

<https://www.khanacademy.org/test-prep/mcat/biomolecules/carbohydrates/e/carbohydrate-questions>

<https://www.khanacademy.org/test-prep/mcat/chemical-processes/proteins/e/proteins-questions>

<https://www.khanacademy.org/science/biology/macromolecules/lipids/e/lipids>

<https://study.com/academy/practice/quiz-worksheet-acellular-organisms.html>

[https://www.biologycorner.com/quiz/qz\\_enzymes.html](https://www.biologycorner.com/quiz/qz_enzymes.html)

**Prepared by:**

**Ms.Maiza Bukhari**



**Pakistan International School Jeddah**  
**Senior Girls Section**  
**Session 2024-2025**

**Grade: XI - Violet**

**Subject: Principles of Accounting**

**Date: 22/05/24**

**Summer Vacation Home Work**

**(50 marks)**

**Short Answers**

1. Elaborate accounting process.
2. What is the importance of recording in accounting cycle?
3. How can identify the different accounts?
4. Discuss different types of business entities?
5. Differentiate between owners and business entity.
6. Write the difference between sale and trade discount.
7. Discuss the rules of debit and credit for assets and expenses.
8. What are the stages of accounting cycle?
9. Describe shortly the drawings.
10. Give short description of Expenses.
11. Define book keeping.
12. How many types of accounts are there?
13. Briefly explain the concept of money measurement and cost concept.
14. Define compound entry.
15. Explain the term credit purchase and cash purchase.
16. Differentiate between purchases inward and outward.
17. What is the difference between journal and ledger.
18. Why ledger is called king of all books of accounts.
19. Define accountancy.
20. Mention profession of your choice reference to the subject accounting.

**Long Answer**

**Project**

**Keeping in view (ch 3 ,4 ,5 ) prepare followings.**

**1} Journal**

**2}, ledger**

**3} trail balance**

**any famous company or a firm.**



+++0.



**Pakistan International School Jeddah**  
**Senior Girls Section**  
**Session 2024-2025**

**Grade: XI - Violet**

**Subject: Principles of Commerce**

**Date: 22/05/24**

**Summer Vacation Home Work**

**Total marks 50**

**Short Answers**

1. Elaborate Human activities and its types.
2. What is the productive aspect of business called?
3. How can we start a business?
4. Discuss different objectives of commerce.
5. Differentiate between commerce and business.
6. Write about different benefits of employment.
7. Define the term trade.
8. Who are professionals and providing different services?
9. Explain the dissolution of partnership business,
10. Give shortly professional qualities of good businessman.
11. Define organizational structure.
12. Narrate few important points of partnership and its types.
13. Briefly explain the different obstacles removed by commerce.
14. Define the insurance.
15. Explain the types of trade.
16. Differentiate between whole sale and retail trade
17. Write down few advantages of JSC.
18. State the auxiliaries of trade.
19. Define innovation.
20. How does a joint stock company provide different investment opportunities.

**Project**

**Ch 4 Partnership**

**Keeping in view dissolution explain in detail  
dissolution of any company or a firm in detail.**





# Pakistan International School Jeddah

## Senior Girls Section (2024-25)

### Education Class XI Summer Vacation Task

Prepared by Ms Tauseef

#### Short Questions

1. Write any two definitions of education with reference to the experts.
2. What is the basic difference between knowledge and education?
3. What do you understand from informal education?
4. Write down the literal meaning in the concept of education.
5. What are the characteristics of formal education?
6. Enlist the basic needs of the individual.
7. What do you know about affective and cognitive change?
8. Enlist the basic abilities of human beings.
9. Write a short note on learning.
10. Identify the role of a teacher in the educational process.
11. Define the system of Education.
12. Categorise the aims of Pakistan's system of education.
13. Classify spiritual and mental aims.
14. What includes in General Education, identify?
15. State professional Education.
16. Limelight the Stages of education.
17. Identify social aims of education.
18. Lime light the professional aims of Aims.
19. What do you know about religious education?
20. What do understand from the aims of education?

○

1. ماہرین مفکرین کی آراء میں تعلیم کی دو تعریف بیان کریں۔
2. تعلیم اور علم کے فرق کی نشاندہی کریں۔
3. غیر رسمی تعلیم سے کیا مراد ہے؟
4. تعلیم کا معنی و مفہوم مختصر بیان کریں۔
5. رسمی تعلیم کی چیدہ چیدہ خصوصیات بیان کریں۔
6. فرد کی بنیادی ضروریات کی فہرست تیار کریں۔
7. تعلیم کے دائرہ عمل کے حوالے سے وقوفی اور تاثراتی تبدیلی کی وضاحت کریں۔
8. فرد کی بنیادی صلاحیتوں کی فہرست تیار کریں۔
9. تعلم پر مختصر نوٹ لکھیں۔
10. عملی تعلیم میں معلم کے کردار کی وضاحت کریں۔
11. نظام تعلیم کے بارے میں اپ کیا جانتے ہیں مختصراً بتائیے۔
12. پاکستان کے نظام تعلیم کے مقاصد کون کون سے ہیں؟ فہرست تیار کریں۔
13. روحانی اور ذہنی مقصد تعلیم کو مختصراً بیان کریں۔
14. عام تعلیم سے کیا مراد ہے مختصراً بیان کریں۔
15. پیشہ ورانہ تعلیم کے بارے میں اپ کیا جانتے ہیں اپنی رائے کا اظہار کریں۔

16. مدارج تعلیم کون کون سے ہیں مختصراً اپنے الفاظ میں بیان کریں۔
17. سماجی و ثقافتی مقاصد تعلیم کون کون سے ہیں جائزہ لیں۔
18. معاشی پیشاورانہ مقاصد تعلیم کو مختصراً بیان کریں ۔
19. مذہبی تعلیم کے بارے میں آپ کیا جانتے ہیں اپنی رائے کا اظہار کریں۔
20. مقصد تعلیم سے کیا مراد ہے مختصراً بیان کریں ۔

## **Project**

**Dear Students, Prepare 20 Mcqs From Chapter 1 And Chapter 2.**

**NOTE: DEAR STUDENTS WILL MAKE LOGIN INTO THIS WEBSITE FOR LIVE Worksheet AND AFTER COMPLETING ALL TASKS, You WILL SHARE YOUR IMAGE OF PROGRESS WITH YOUR TEACHER.**

<https://search.app.goo.gl/5yX18ZA>

<https://www.liveworksheets.com/w/en/english-second-language-esl/1348760>

***Wish you happy summer vacation***





بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

*PAKISTAN INTERNATIONAL  
SCHOOL JEDDAH*



*SUBJECT: P.O.ECONOMICS  
GRADE: XI VIOLET (UNITS 1-3)*

*SHORT ANSWERS:*

- i.* Define arc elasticity of demand.
- ii.* What is meant by joint demand?
- iii.* Mention five determinants of elasticity of demand.
- iv.* What are Giffin goods?

- v.** Define Law of Demand.
- vi.** Differentiate between supply & stock.
- vii.** Define Normative Economics.
- viii.** What is meant by Economic problem?
- ix.** Write four educational advantages of Economics.
- x.** What is Applied Economics?
- xi.** Differentiate between utility & usefulness.
- xii.** Write conditions of Perfect Competition.
- xiii.** Write four limitations of law of Equi-marginal utility.
- xiv.** State the meaning of normal price.
- xv.** Define law of diminishing Equi-marginal utility.
- xvi.** Economics is a social science, why?
- xvii.** What is meant by Economic law?

- xviii.** Write the exceptions of the Law of Supply.
- xix.** Economic laws are conditional, explain.
- xx.** Write four determinants of utility.

## ***PROJECT:***

Explain the following with Table & Diagrams:

- i.** *Rise & fall of Demand*
- ii.** *Rise & fall of Supply*
- iii.** *Contraction & expansion of Demand*
- iv.** *Contraction & expansion of Supply*

LINKS:

<https://www.liveworksheets.com/w/en/economics/484128>

<https://www.liveworksheets.com/w/en/economics/7029132>

<https://www.liveworksheets.com/w/en/social-science/62101>

<https://www.liveworksheets.com/w/en/economy-english/1372323>

**NOTE:** *Students will return this Home work in hand written form on A4 loose sheets.*

**PREPARED BY: Ms. Aaisha Sajjad**



**HAPPY SUMMER VACATIONS**



# پاکستان انٹرنیشنل سکول جدہ



برائے جماعت گیارہویں گرمیوں کی چھٹیوں کا کام

- 1- سیرت نگاری کی تعریف لکھیں۔
- 2- افسانہ کسے کہتے ہیں؟
- 3- مترادف الفاظ کی وضاحت کریں۔
- 4- شعر کی تعریف کریں اور اس کے حصوں کی وضاحت کریں۔
- 5- دو مثالوں کے ساتھ صنعت تکرار کے بارے میں لکھیں۔
- 6- زیر اور ہمزہ کی مدد سے دو مرکب لکھیں۔
- 7- مناجات کی وضاحت کریں۔
- 8- حمد، نعت، اور قصیدہ، مرثیہ میں فرق واضح کریں۔
- 9- صنعت تلمیح کی تعریف کریں اور اقسام کی وضاحت مثالوں کے ذریعے کریں۔
- 10- مرثیہ نگاری کی صنف کے بارے میں لکھیں۔
- 11- تلخیص نگاری کا کیا مطلب ہے اور اس کے اصول کیا ہیں؟
- 12- تشبیہ اور اس کے ارکان کی وضاحت دو مثالوں کے ذریعے سے کریں۔
- 13- امدادی یا معاون فعل کی وضاحت کریں۔
- 14- مرکبات کیا ہوتے ہیں؟ کوئی سے تین مرکبات وضاحت کے ساتھ لکھیں۔
- 15- محاورہ اور روزمرہ کا فرق واضح کریں۔
- 16- صنعت تضاد کی تعریف اور دو شعری مثالیں دیں۔
- 17- غزل کی تعریف کریں۔
- 18- جملہ اسمیہ اور فعلیہ کی وضاحت مثالوں کے ذریعے کریں۔
- 19- صنعت مراۃ النظر کی تعریف اور وضاحت دو مثالوں کے ساتھ کریں۔
- 20- صنعت تعلیل کسے کہتے ہیں؟ مثالوں سے واضح کریں۔

## حصہ دوم

- 1- اپنے دیہات میں ایک سرکاری ڈسپنسری کے قیام کیلئے وزیر تعلیم کے نام درخواست لکھیں
- 2- بڑے بھائی کے نام خط لکھیں جس میں شہر میں ہونے والے ترقی اور تعمیرات کے بارے میں بتائیں۔



Pakistan International School,  
Al-Aziziah, Jeddah (Girls Section)

**Revision Sheet**

**Class XI**

**Subject: Home Economics**  
**Najia Meraj**

**Teacher: Mrs.**

**Short Question**

1. Define Management.
2. Discuss home management
3. Write down the significance of management.
4. Write down the aspects of management.
5. Write down the importance of planning in home management.
6. Discuss the role of critical Evaluation in home management.
7. Define Values.
8. List down the importance of values.
9. List down the steps involved in the management process.
10. Write down the advantages of budgeting.
11. Define characteristics of values.
12. Briefly write down the types of resources.
13. State the advantages of budgeting.
14. What are the different types of goals? Name them.
15. What are the advantages of saving?
16. What is the importance of values?
17. Define goals.
18. Discuss the importance of goals.
19. Write down the relation between values and goals.
20. List down the kinds of resources.



# PROJECT.

Make a sewing box by using waste.

Or

Make a Wall Hanging by using disposable spoons. <https://www.youtube.com/watch?v=2-bgZY2JGil>

<https://www.youtube.com/watch?v=WbYdGSGGLACU>

<https://www.youtube.com/watch?v=5LrZedL6gQQ><https://www.youtube.com/watch?v=5kokeqPDT04><https://www.youtube.com/watch?v=5kokeqPDT04>





**Pakistan International School Jeddah**

**Senior Section**

**Session 2022-2023**

**Grade: 11**

**Subject: English**

I wish you all the  
best for your  
*Vacation.*  
Have Fun and Enjoy it.



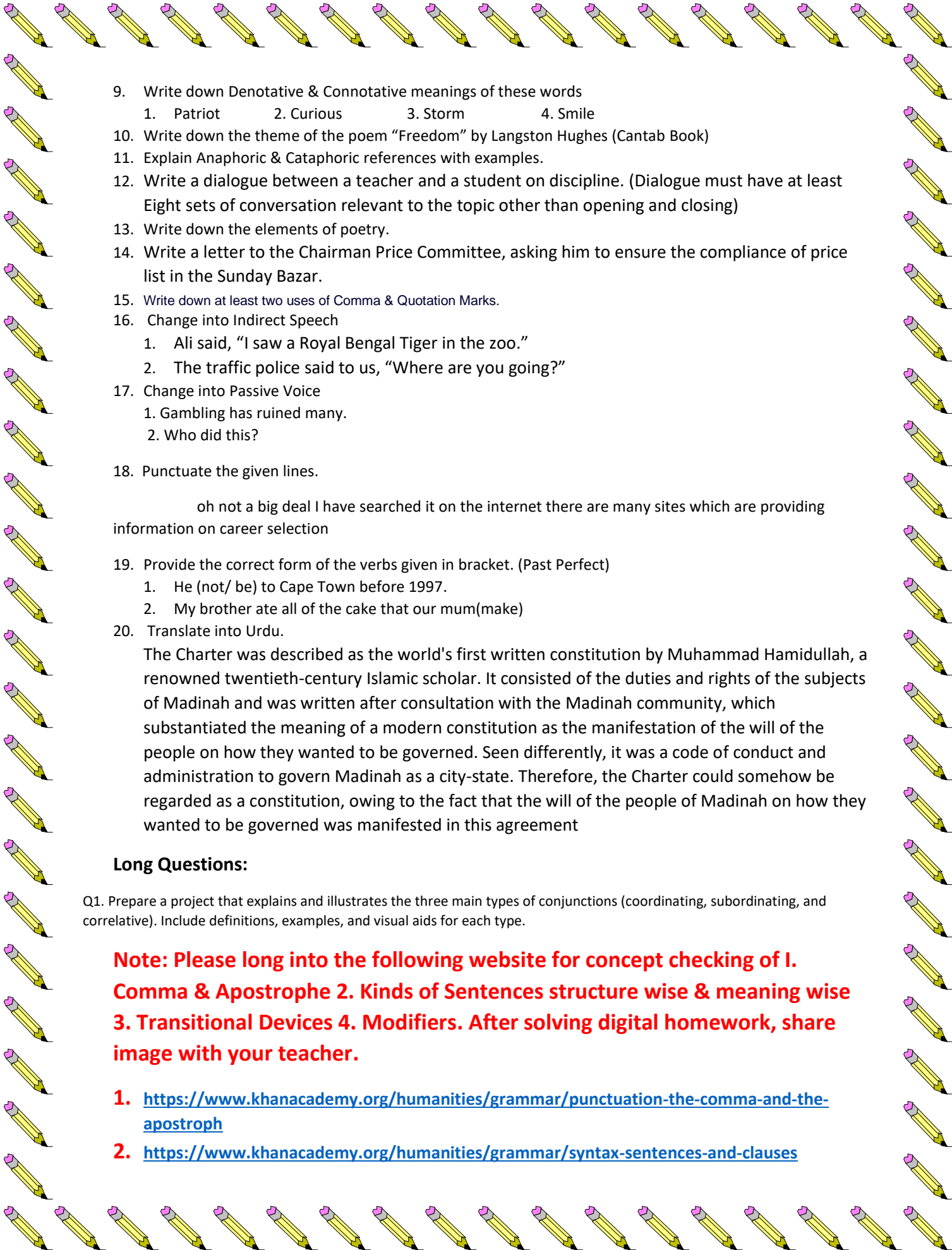
Name: \_\_\_\_\_

Class & Section: \_\_\_\_\_

Subject: English

**Short Questions:**

1. Define Apostrophe, Anaphora, Refrain Irony, Symbolism & Antithesis examples.
2. Differentiate between finite and non-finite verbs with examples.
3. Use the following phrasal verbs in sentences.
  1. Clean up
  2. Come apart
  3. Cut down
  4. Cut off
  5. fall apart
4. Explain the Kinds of sentences structure-wise and meaning-wise with examples.
5. What is Pronoun Antecedent? Write at least two examples.
6. Differentiate between Transitive and Intransitive Verb with examples.
7. Explain Acronyms and Abbreviations with examples.
8. Differentiate between Transitional Devices & Conjunctions.

- 
9. Write down Denotative & Connotative meanings of these words
    1. Patriot
    2. Curious
    3. Storm
    4. Smile
  10. Write down the theme of the poem "Freedom" by Langston Hughes (Cantab Book)
  11. Explain Anaphoric & Cataphoric references with examples.
  12. Write a dialogue between a teacher and a student on discipline. (Dialogue must have at least Eight sets of conversation relevant to the topic other than opening and closing)
  13. Write down the elements of poetry.
  14. Write a letter to the Chairman Price Committee, asking him to ensure the compliance of price list in the Sunday Bazar.
  15. Write down at least two uses of Comma & Quotation Marks.
  16. Change into Indirect Speech
    1. Ali said, "I saw a Royal Bengal Tiger in the zoo."
    2. The traffic police said to us, "Where are you going?"
  17. Change into Passive Voice
    1. Gambling has ruined many.
    2. Who did this?
  18. Punctuate the given lines.

oh not a big deal I have searched it on the internet there are many sites which are providing information on career selection

19. Provide the correct form of the verbs given in bracket. (Past Perfect)
  1. He (not/ be) to Cape Town before 1997.
  2. My brother ate all of the cake that our mum(make)
20. Translate into Urdu.

The Charter was described as the world's first written constitution by Muhammad Hamidullah, a renowned twentieth-century Islamic scholar. It consisted of the duties and rights of the subjects of Madinah and was written after consultation with the Madinah community, which substantiated the meaning of a modern constitution as the manifestation of the will of the people on how they wanted to be governed. Seen differently, it was a code of conduct and administration to govern Madinah as a city-state. Therefore, the Charter could somehow be regarded as a constitution, owing to the fact that the will of the people of Madinah on how they wanted to be governed was manifested in this agreement

### Long Questions:

Q1. Prepare a project that explains and illustrates the three main types of conjunctions (coordinating, subordinating, and correlative). Include definitions, examples, and visual aids for each type.

**Note: Please long into the following website for concept checking of I. Comma & Apostrophe 2. Kinds of Sentences structure wise & meaning wise 3. Transitional Devices 4. Modifiers. After solving digital homework, share image with your teacher.**

1. <https://www.khanacademy.org/humanities/grammar/punctuation-the-comma-and-the-apostroph>
2. <https://www.khanacademy.org/humanities/grammar/syntax-sentences-and-clauses>

3. <https://quizizz.com/admin/quiz/5f2160fec6ac37001e9979e0/transitional-devices>
4. <https://www.khanacademy.org/humanities/grammar/parts-of-speech-the-modifier>
- 5.

