



**DR A.Q .KHAN SCHOOL AND COLLEGE BAHRIA TOWN PHASE-8, ISLAMABAD**  
**SUMMER VACATION HOMEWORK TASK, 2022**  
**SUBJECT: COMPUTER SCIENCE**  
**CLASS: VII**

- Learn at least five points about these topics.
  1. Why we need simulation in our daily life?
  2. Features and limitations of cloud storage
  3. Differentiate between View Tab and View Group.
  4. Differentiate between Holographic and virtual reality
  
- Write a letter to Principal to upgrade the lab with font size 11, font type “Calibri”, font color to blue, enter signature at the end of document, write your name, school, class and section.
  
- Prepare ICT Devices list that are used in your surroundings by inserting related picture.
  
- Prepare a Curriculum Vitae (CV) with your picture, academic detail in table form, personal interest using different style and design.

Note: Submit the summer vacation work in printed form.



## ۸ ے کیو خان سکول اینڈ کالج بحریہ ٹاؤن فیز

موسم گرما کی تعطیلات کا کام

مضمون: آسان اردو

جماعت: ہفتم

- \* روزانہ کی بنیاد پر ایک سبق کی پڑھائی کریں۔
- \* نئے الفاظ کی ایک فہرست بنائیں۔ اور ان الفاظ کے معانی لکھیں۔
- \* ہر سبق میں سے پانچ پانچ الفاظ کو اپنے جملوں میں استعمال کریں۔
- 1- صحت و صفائی ، 2- نیا کمپیوٹر ، 3- آتے ہیں جو کام دوسروں کے ،
- 4- زیبا کے پڑوسی ، کی پڑھائی کریں۔
- \* سبق: فاطمہ الزہرا □ ، نظم: پہاڑ اور گلہری ، میں کیا بنوں گا ،
- صبح کی آمد ، نظم پڑھیں اور اپنے الفاظ میں ان نظموں کا مرکزی خیال لکھیں ۔
- \* فعل امر اور نہی کے پانچ پانچ جملے لکھیں۔
- \* حروف عطف کی مثال میں دس الفاظ لکھیں۔
- \* سال کے بارہ مہینوں کے نام لکھیں۔
- \* پہلوں اور سبزیوں کے ناموں کی فہرست بنائیں ۔
- \* دس محاورے لکھیں۔ اور ان کو اپنے جملوں میں استعمال کریں۔
- \* نوٹ: تمام کام نوٹ بکس کی بجائے صفحات پر کریں۔ کام خوش خط اور صفا  
ئی سے کریں۔



**DR. A. Q. KHAN SCHOOL & COLLEGE, BAHRIA TOWN, PHASE-8, ISLAMABAD**  
**SUMMER VACATION HOMEWORK TASK, 2022**  
**SUBJECT: ISLAMIYAT**  
**CLASS: VII**

- Memorisation and translation: سورہ البقرہ آیت 286
- Dua for Protection from evil thoughts: شیطانی وسوسوں سے بچنے کی دعا:
- Learn the translation of Hadiths 1-3
- Write Asma ul Husna (10-21) on a scrapbook and memorize the meaning.
- How did the conquest of Makkah help to spread Islam?
- Describe some examples of equality from the daily life of Hazrat Muhammad ﷺ.
- Describe some of Hazrat Ayesha's ﷺ unique qualities.



## اے کیو خان سکول اینڈ کالج بحریہ ٹاؤن فیز ۸

کام برائے تعطیلات گرما

مضمون: اسلامیات

جماعت ہفتم

حفظ و ترجمہ: سورہ البقرہ آیت 286 اور شیطانی وسوسوں سے بچنے کی

دعا کا ترجمہ لکھیں اور یاد کریں۔

حفظ کلمات: چوتھا کلمہ یاد کریں۔

اسمائے الحسنیٰ: 10 تا 21 اسکرپ بک پر خوبصورتی سے لکھیں اور

معانی یاد کریں۔

احادیث: 1 تا 3 کا ترجمہ یاد کریں۔

خطبہ حجتہ الوداع کے چیدہ چیدہ نکات تحریر کریں۔

عملی زندگی سے قانون کے احترام کے حوالے دے کر پانچ مثالیں تحریر

کریں۔

حضرت عائشہ صدیقہ رضی اللہ تعالیٰ عنہ کی زندگی سے ہمیں کیا سبق ملتا

ہے؟ ایک پیراگراف تحریر کریں۔



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**SUMMER VACATION HOMEWORK TASK, 2022**  
**SUBJECT: MATHEMATICS**  
**CLASS: VII**

Q1. If  $U = \{3,4,5,6,7,8,9\}$ ,  $A = \{4,5,6\}$ ,  $B = \{\text{Odd numbers between 2 and 8}\}$ ,

$C = \{\text{Square number} < 10\}$  List

- Intersection of B and C
- Union of A and C
- Write down  $n(C)$  and  $n(A \cup C)$
- Complement of B

Q2. If  $A = \{a, b, c, d, e\}$ ,  $B = \{e, f, g, h\}$ . Find  $A \cup B$  and  $A \cap B$ . Also represent through Venn diagram.

Q3. Give 2 examples of disjoint and overlapping pair of sets.

Q4. Write down the additive and multiplicative inverse of the following numbers.

- i.  $\frac{25}{27}$                       ii.  $-\frac{2}{7}$                       iii.  $\frac{1}{\sqrt{8}}$                       iv.  $-1$

Q5. Simplify.

- $7\frac{2}{3} + (-5\frac{1}{6}) + (-3\frac{1}{12})$
- $-2\frac{4}{5} \times (-\frac{5}{2}) \div (-2\frac{4}{5})$
- $8\frac{1}{3} - 1\frac{1}{9} - \frac{5}{18} - 2\frac{5}{6}$
- $2\frac{2}{7} \times [3\frac{1}{3} - 1\frac{7}{12}]$

Q6. Amna says that  $2\frac{5}{8}$  is same as 2.58

- Convert  $2\frac{5}{8}$  to a decimal.
- Was Amna correct in saying that  $2\frac{5}{8}$  same as 2.58.

Q7. Evaluate  $\sqrt{2\frac{1337}{3844}}$

Q8. Find the square root 19.36 using prime factorization method.

Q9. 3600 students are asked to stand in different rows. Every row has many students as there are rows. Find the number of rows.

Q10. Find pair of disjoint and overlapping sets.

- i.  $A = \{3,6,9,12\}$  and  $B = \{6,8,9\}$
- ii.  $C = \{a, b, x, y\}$  and  $D = \{m, n, o, p\}$
- iii.  $E = \{\text{monkey, goat, lion}\}$  and  $F = \{\text{tiger, goat}\}$

Q11. List all proper subsets of the following sets.

$$X = \{3,6,9\}$$

$$Y = \{g, j\}$$

$$Z = \{\text{Amna, Hira}\}$$

Q12. Classify the given numbers as whole number, integer or rational number.

$$5, 1.6, 0, \frac{3}{2}, \frac{8}{4}, -7$$

Q13. Maham bought  $4\frac{1}{2}$  liters of ice cream to serve at his birthday party. If a scoop is  $\frac{1}{16}$  of a liter, how many scoops can be served?

Q14. Sana walked  $1\frac{5}{8} \text{ km}$  on Sunday and  $2\frac{1}{2} \text{ km}$  on Monday.

- i. How many kilometers did she walked altogether?
- ii. How many more kilometers did she walked on Monday.

Q15. Find the mean of daily temperature of 5 days of a week.

Days	Monday	Tuesday	Wednesday	Thursday	Friday
Temperature	$27^\circ$	$29^\circ$	$30^\circ$	$31^\circ$	$28^\circ$

Q16. Find all the perfect squares between 1 to 150.

Q17. Find square of the following numbers.

- i. 13
- ii. 0.5
- iii.  $\frac{9}{16}$
- iv. 0.09

Q18. Find the square root of the following.

i. 12100

ii.  $\frac{196}{729}$

Q19. Verify.

$$\sqrt{144 \times 169} = \sqrt{144} \times \sqrt{169}$$

Q20. Evaluate.

i.  $\left(\frac{1}{4}\right)^2 + \sqrt{0.25}$

ii.  $\sqrt{(0.4)^2 - (0.3)^2}$

Q21. Find the perimeter of a square whose area is  $6889\text{m}^2$ .

Q22. 3600 students are asked to stand in different rows. Every row has as many students as there are rows. Find the number of rows.

### **Brain Buster Challenges**

1. The square of a decimal number is less than itself. Prove with example.
2. Why  $\sqrt{9 + 16}$  is not equal to  $\sqrt{9} + \sqrt{16}$ ?
3. Describe and correct the error.

$$\sqrt{2\frac{7}{9}} = \sqrt{\frac{36}{9}}$$

4. Solve  $\sqrt{7 - 2\sqrt{9}}$ .

### **Activities:**

- Draw the Venn diagram for the following operations (for reference see page no 21 of your book)
  - i.  $A \cup B$
  - ii.  $A \cap B$
  - iii.  $A - B$
  - iv.  $B - A$
  - v.  $A'$
  - vi.  $A \subset B$
- Write the properties of rational numbers with respect to multiplication and addition in the form of table (for reference see page no 44 of your book)
- Identify the given symbols by making a table. (for reference see page no 22 of your book)

$\subset$	$\pi$	$\leq$	$\cap$	$\neq$	$\notin$	$\cup$	$\subseteq$	$\emptyset$	$\in$
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**Note: All the questions should be done on narrow line loose sheets with proper working. Do all the activities on A4 Size colored paper.**



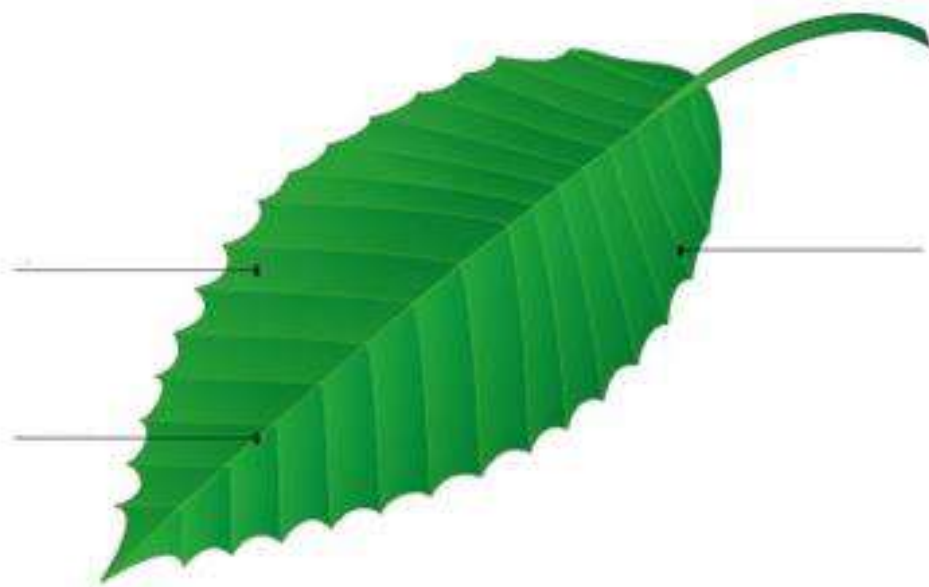


- vii. Which of the following has more electrons than protons?  
 (a)  $C^{-2}$                       (b)  $Mg^{+2}$                       (c)  $He^{+3}$                       (d)  $Fe^{+1}$
- viii. Identify the atom which does not have a complete duplet  
 (a) Hydrogen                      (b) Helium                      (c) Neon                      (d) None of them
- ix. How many neutrons are there in one atom of  $^{19}K_9$ ?  
 (a) 19                      (b) 10                      (c) 11                      (d) 12

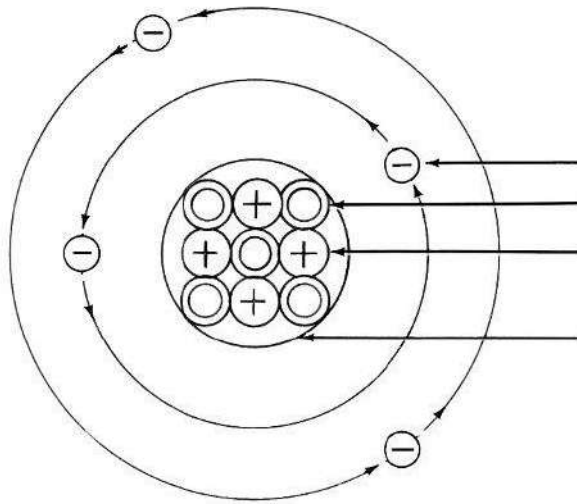
**Q3. Match the symbol in column A to its name in column B and write the correct answer in column C.**

A (Symbol)	B (Names)	C
B	Oxygen	
Mg	Hydrogen	
He	Iron	
O	Boron	
H	Helium	
F	Magnesium	
Fe	Sodium	
C	Sulphur	
Na	Carbon	
S	Fluorine	

**Q4. Label the parts of leaf.**



**Q5. label the diagram of structure of an atom.**



**Q6. Define the following terms.**

Vascular bundles

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Atomic number

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Transpiration

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Atomic mass

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Respiration

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Root

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Stem

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Xylem

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Electrons

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Valency

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**Q7. Write down a word equation for respiration and photosynthesis.**

\_\_\_\_\_ + \_\_\_\_\_ → \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ → \_\_\_\_\_ + \_\_\_\_\_

**Q8. The formula of Ferric oxide is  $\text{Fe}_2\text{O}_3$**

i. How many elements are there in Ferric oxide ?

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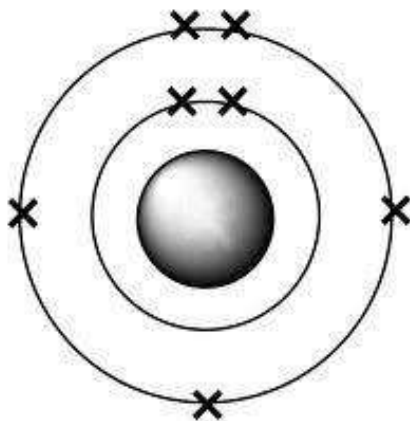
ii. How many atoms are there in a molecule of Ferric oxide?

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iii. How many oxygen atoms are there in a molecule of Ferric oxide?

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**Q9. The diagram below shows the structure of an atom.**



i. Recognize the atom.

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ii. How many electrons are there in this atom?

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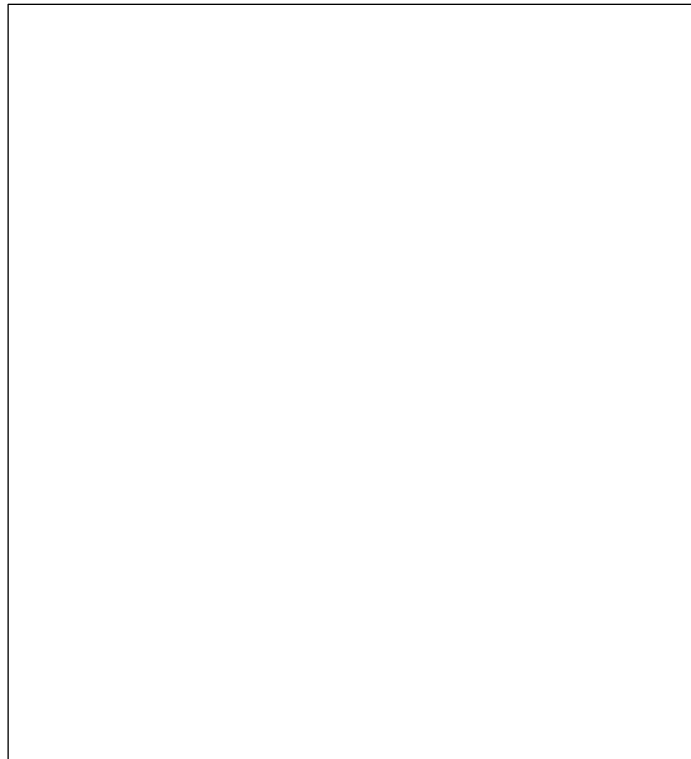
**Q10. Draw an atomic model for the following.(Construct Electronic Configuration and valency)**

i. Silicon (14)

ii. Phosphorus (15)

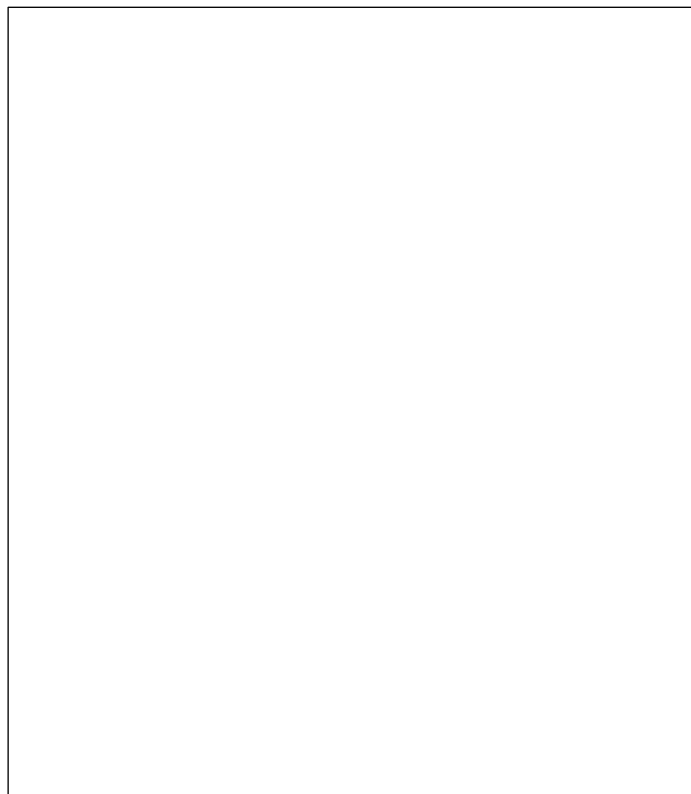
i. Calcium (20)

ii. Neon (10)



i. Lithium (3)

ii. Potassium (19)



**Q11. Read the activities and answer the question below.**

Activity 1

Put a drop of ink in a glass of water. Without soaking or stirring the water, observe it after every ten minutes.



What happens after some time?

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Activity 2

Take a flower with a twig and place it in coloured water. For this purpose, you can add a few drops of food colour to the water. Leave the flower in the water for some time. Observe the change in the colour of flower.



Why has the colour changed?

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Activity 3

Select a small branch on a plant with fresh leaves. Fix a polythene bag on that branch and seal it. Similarly fix a polythene bag on another branch with no leaves. Observe the two bags after half an hour.



Which bag has small droplets of water?

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Why are these droplets formed?

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**SUMMER VACATION HOMEWORK TASK, 2022**  
**SUBJECT: SOCIAL STUDIES**  
**CLASS: VII**

**(To be done on loose sheets)**

1. Make an assignment (800-1000 words) on the six Great Mughal Emperors; (Babur to Aurangzeb). Your assignment must include answers to the following questions:
  - Which remarkable achievements were made by the Great Mughals in the fields of expansion of empire, war strategy, social welfare, art & architecture?
  - How were the later Mughals different from their predecessors?
  - Briefly state the reasons for the decline and eventual fall of the Mughal Empire.

**(To be done on scrapbook)**

2. Take a scrapbook, divide it into two portions. In one half, make a presentation on
  - Sultan Salahuddin Ayubi
  - His achievements
  - His struggle with the crusaders
3. On the other half of your scrapbook, make a report on the major environmental issues faced by Pakistan. Your report must include answers to the following questions:
  - What are the various types of pollution?
  - Which is the most dangerous type of pollution faced by our country?
  - What can be done to reduce the hazards caused by environmental pollution?
  - Also paste pictures to support your report.



## اے کیو خان سکول اینڈ کالج بحریہ ٹاؤن فیز ۸

موسم گرما کی تعطیلات کا کام

مضمون: اردو

جماعت: ہفتم

نوٹ: درج ذیل کام کوالنگ صفحات پر تحریر کریں۔

مضمون نویسی: محنت کی عظمت ، علم کے فوائد

خطوط نویسی: ناراض دوست کو منانے کے لیے خط ، والد کے نام خیریت سے پہنچنے کا خط

کہانی نویسی: پیاسا کوا ، لالچ بری بلا ہے۔

تخلیقی کام: علامہ اقبال کے دس اشعار تحریر کریں اور یاد کریں۔

کالج کے رسالے کے لئے اردو میں کوئی نظم، اشعار یا کچھ بھی اپنی مرضی سے لکھ کر لائیں۔

نصاب میں شامل اسباق کی پڑھائی کریں اور اس میں سے املا تیار کریں۔





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SUMMER VACATION HOMEWORK TASK**

**SUBJECT: ENGLISH**

**CLASS: VII**

HAPPY SUMMER TIME! An opportunity to strengthen family bonds. Use Summer Vacation Tasks as a golden opportunity to expend valuable time together, not only remaining in touch with the English but also having fun in learning it. Look for interesting books and read as much as you can about the places and people. Take a good care of your health and of your family.

**Note:** Original work of students will receive better appreciation and acknowledgement.

***LISTENING***

**Task 1:** Listen to the audio on the link given and discuss in short paragraph what kind of home work do you like:

<https://learnenglish.britishcouncil.org/skills/listening/a2-listening/missing-a-class>

**Task 2:** Listen to the given link audio and write down in a few lines what you have learnt about submitting an assignment and its requirements.

<https://learnenglish.britishcouncil.org/skills/listening/a2-listening/instructions-for-an-assignment>

***SPEAKING***

Speaking skill means to speak well on any of the given topic. So practice it; never forget to speak in English even at your homes. Prepare and record an audio clip of **3 minutes only** on any one of the following given topics:

- Fast food should be banned in schools.
- Climate change is the greatest threat.

***PRESENTATION***

Sow and Grow a plant at your home or in your community. Take snapshots of it at various stages of its growth. Prepare a presentation of 5 to 6 slides while utilizing these pictures on the topic “Green Pakistan” to contribute our part against Global Warming Threat.

***READING & WRITING***

Read first three chapters of the Novel, “**The Lost World**”:

- Write down the summary of any two of them.
- Pen down the character sketch of any of the main characters, you liked.
- Make attractive TITLE PAGE for the Novel.
- Pick out at least 15 new words from them and write down their meanings & sentences.

**POEM:** Compose/Write down your own poem and also give it an interesting title, on any one of the following topics:

Fashion, Cricket Fever OR Excuses for Leave from School

**OR**

Read any two poems, other than course poems; write down them and also their main ideas along with paraphrasing of any one stanza from each poem. (One stanza only from one poem).

**MOVIE:** Watch the movie “**Jurassic Park**” and write down a short movie review in your own words.

**NOTE:** Remain in touch with your grammatical and compositional as well as of comprehension concepts to be well prepared for 1<sup>st</sup> Term Exams after summer vacations.