



DOMINICAN CONVENT H/S SCHOOL BAHAWALPUR

SUMMER ASSIGNMENT 2026 CLASS-8



Guidelines for Students and Parents

- Read newspaper articles, magazines, or informative blogs regularly and maintain a journal of current events and interesting facts.
- Learn and practice **basic home maintenance skills** such as sewing a button, ironing clothes, budgeting, basic cooking, organizing files, or first aid, or simple repairs, .
- Spend one day each week as a **Digital Detox Day**, reducing screen time, outdoor games, supporting family in organizing events or guests by helping in preparation, arrangement, and cleanup.
- Improve your digital literacy by learning a useful tool such as PowerPoint, Excel, Canva, typing skills, or online research techniques.
- Learn a new hobby such as photography, gardening, sketching, calligraphy, baking, chess, or creative writing and document your progress.
- Start a personal savings or budgeting record and track your expenses or savings during the holidays.
- Participate in family service by helping younger siblings, assisting elderly family members, or volunteering for household responsibilities.
- Develop a healthy habit such as regular exercise, reading before bedtime, journaling, or reducing unnecessary screen time.

Note: Check all work carefully before submission to ensure it is complete, neat, organized, and free from spelling and grammatical errors.

English Literature

(25)

Task 1. Read "The Book Thief" by Markus Zusak and complete the following tasks:

(6)

https://archive.org/details/the-book-thief_202101

1. Chapter Reflections:

(2)

Write a short reflection (40 words) after every chapter:

What happened? Which event was the most important one?

How did it make you feel?

2. Favourite Quotations:

(2)

Choose 2 meaningful quotations from the novel and explain:

Who said it? In which situation? Why is it important?

3. Vocabulary log
Find 15 difficult words, write their meanings and use them in your sentences (2)

Task 2. Watch the movie, The Karate Kid and; (10)

- A. Choose one character and create a “Character Profile.” (5)**
- Include:
 - Appearance
 - Personality
 - Likes and dislikes
 - Special habits
 - Your opinion about the character
- B. A kid is being bullied and wants to learn about martial arts in order to defend himself. The Master, Mr. Miyagi, teaches him that martial arts is about much more than “fighting”. Life happens and tough things happen sometimes. The lesson behind this movie is that when tough things happen, it’s how a person chooses to deal with those things that determines their destiny. Mr. Miyagi said it best “Lesson not just karate only. Lesson for whole life. Whole life has a balance, everything be better.” Imagine you are on the place of the Kid and discovered a change in your personality, write a diary entry describing: (120–150 words) (5)**
- What did you feel earlier?
 - How did you manage your anger?
 - What did you learn from Mr. Miyagi?

Task 3. Learn spelling of 30 difficult words; write their meanings and use them in meaningful sentences. Choose 10 words from each story in the Oxford Reading Circle: (9)

1. Romeo and Juliet 2. The Monkey’s Paw 3. Mrs. Packletide’s Tiger

English Grammar (25)

Task1. Editing Challenge (6)

Correct the grammar mistakes in the following paragraphs and rewrite them neatly.

1. Commonwealth golds medalist Heena Kumari used to watch her uncle repairs all kinds of guns in her neighbourhood and development a fancy for it. When she picks up shooting in 2006, her family did not thinks that she could represent the country or win the medal, but she proven everyone wrong with her skills.
 2. It is true that a natural disaster was a natural process and we cannot stop it, but through making certain preparations, we can reduce the magnitude of the loss to life or property. First of all, we would reduce global warming which is the root cause from all the problems. We should also have insurance policies such that we have sufficient money to rebuilt our lives after any such disaster.
 3. Discipline is a structural and fundamental unit of a success person. It is essential for us at home, for soldiers on the battlefield, for students at school, for players in the playground. A team of experience players can also lose a match because to indiscipline in the team. Every tough battle can be win by a disciplined army.
- List all corrected mistakes.
 - Explain the grammar rule for any five corrections.

Task 2. Creative Writing with Grammar Focus:

Write an essay on the following topics (9)

- A Day Without Electricity

- The Funniest Mistake I Ever Made
- If I Could Travel Through Time

Rubric:

- 200-300 words
- Use at least:
- 5 adjectives
- 5 adverbs
- 3 complex sentences
- Dialogue
- correct punctuation

Task 3. Find out the forms of verb for the following and learn them for a test.

(5)

bear	dare	lean
beat	deal	let
bend	dive	lie
bet	dream	light
bid	fight	mean
bind	fit	melt
bite	forgive	mislead
bleed	grind	mistake
blow	handwrite	misunderstand
breed	hang	prove
broadcast	hit	quit
burn	kneel	rise
clap	knit	saw
cling	lay	seek
creep	lead	set
sew	tear	
shake	tell	
shave	thrive	
shine	tread	
shoot	understand	
shrink	upset	
slide	wring	
sling		
slit		
sneak		
spin		
spit		
split		
spoil		
spread		
spring		
steal		
stick		
sting		
strike		
string		
sweat		
sweep		
swing		

Task 4. Following the chart, learn the rules to change Direct speech into Indirect and practice with 20 different sentences.

(5)

Tense	Direct Speech	Indirect Speech
Present Simple	She said, "I like coffee."	She said that she liked coffee.
Present Continuous	He said, "I am working."	He said that he was working.
Present Perfect	She said, "I have finished."	She said that she had finished.
Present Perfect Continuous	He said, "I have been studying."	He said that he had been studying.
Past Simple	She said, "I saw him yesterday."	She said that she had seen him the day before.
Past Continuous	He said, "I was watching TV."	He said that he had been watching TV.
Past Perfect	She said, "I had finished my work."	She said that she had finished her work.
Past Perfect Continuous	He said, "I had been sleeping."	He said that he had been sleeping.
Future Simple	She said, "I will call you."	She said that she would call me.
Future Continuous	He said, "I will be waiting for you."	He said that he would be waiting for me.
Future Perfect	She said, "I will have finished by then."	She said that she would have finished by then.
Future Perfect Continuous	He said, "I will have been working for two hours."	He said that he would have been working for two hours.

Mathematics

(25)

Task1: Solve the following given sums from book.
(10)

Review Exercise (page # 33)

Q8 (i,ii,iii)

Q9 (i,ii,iii)

Q12 (ii,iii)

Review Exercise (page # 80)

Q4 (i,ii)

<https://youtu.be/0XNSBoqG-1s?si=Mt2jOZMznLyPq89t>

Task 2: practice the following given sums from book.
(10)

Ex 1.16 Q6(i – v)

<https://youtu.be/vtpZpAeLg40?si=2oUXvfsPGI2drRo6>

Ex 1.17 Q1(i to v)

https://youtu.be/SJyNCvU6EUA?si=tYj_Y1Pw9BfmmcVu

Task 3: Activity :
(5)

A map has a scale of 1 cm : 8 km.

Measure the distance between two places on a map.

Use proportion to find the actual distance.

Present your work in a table and explain your method.

History

(15)

Topic: Time Travel Interview – Interview a Historical Personality

Imagine that you traveled back in time and interviewed a famous historical personality. Write creative questions and imaginary answers based on your understanding of history.

Instructions:

- Choose ONE personality: Muhammad Ali Jinnah, Allama Iqbal, Mahatma Gandhi, Tipu Sultan, or Fatima Jinnah.
- Decorate your assignment neatly with borders, pictures, or colors.
- Write in your own words.
- Use assignment sheets or chart paper.

Section	Description	Marks
Part A – Introduction	Write who is the personality and why you chose them (4–5 line	4
Part B – Interview	Write 5 creative interview questions with imaginary answers.	5
Part C – Creative Work	Draw a portrait, paste pictures, or design a time machine cover	4
Part D – Reflection	Write what lesson you learned from this personality.	2

Example Interview Question:

Q: What was your biggest dream for your people?
A: My dream was to see people live with freedom, unity, and equal rights.

Best Presentation Tips:

Use colorful headings, speech bubbles, and creative designs to make your assignment attractive and

Geography (15)

1. Essay: Landforms Shape Life (5)

Write a 250-word essay on "How mountains, plateaus, and plains influence lifestyle, farming, and transport in India." Use 2 real examples.
Goal: Analytical writing.

2. Water Scarcity Proposal (5)

Write a 200-word proposal for your school to reduce water wastage. Include 3 practical steps related to rainwater harvesting and water purification.
Goal: Problem-solving + civic awareness.

3. Climate Change Journal Entry (5)

Write a 180-word diary entry as a farmer living in a plateau region. Describe how changing rainfall patterns affect crops and water availability.
Goal: Empathy + link between climate and geography.

Science (25)

Part A: The Case of the Mystery Powders (7)

<https://youtu.be/KAXMHeUWDOs?si=4-6vD6LrDLjbOYHc>

Imagine you are a forensic scientist working in a lab. Two white, powdery substances (Substance A and Substance B) were found at a scene. You conducted a few tests and recorded the following properties:

Property	Substance A	Substance B
Melting point	High (801*)	Low (186*)
Solubility in water	Dissolves completely	Dissolves completely
Electrical conductivity	Does not conduct as solid, but conduct brilliantly when dissolved in water	Does not conduct electricity at all (solid or liquid form)

Tasks:

1. **Identify the Bond Type:** Identify which substance is held together by **ionic bonds** and which by **covalent bonds**. Justify your answer using at least two pieces of evidence from the table. (3 Marks)

2. **The Particle Explanation:** Why does Substance A conduct electricity when dissolved in water, while Substance B does not? Explain what happens to the underlying particles in each case. (2 Marks)
3. **Melting Point Mastery:** Explain why there is such a massive difference in melting points between the two substances based on the forces holding their particles together. (2 Marks)

Part 2: Biotechnology & Genetic Modification

(13)

https://youtu.be/CjnS0Trj_EE?si=pZFy9ePdY99-E02s

Scenario 1:

In many developing nations, millions of children suffer from severe Vitamin A deficiency, which can lead to blindness and a weakened immune system. Because rice is a cheap, staple crop consumed daily in these regions, scientists used biotechnology to create **Golden Rice**—a genetically modified (GM) variety that produces beta-carotene (which the human body converts into Vitamin A).

To do this, scientists isolated a specific gene from a daffodil plant and inserted it into the DNA of a standard rice plant.

Tasks:

1. Defining the Mechanism

Explain what a genetically modified organism (**GMO**) is. In your answer, clearly state what happened to the genetic material of the rice plant to transform it into Golden Rice. (2 Marks)

2. The Biological Machinery

To insert the daffodil gene into the rice DNA, scientists rely on specific biochemical "tools."

- (a) Name the type of biological enzyme used to cut open the rice DNA at a specific sequence. (1 Mark) (b)

Name the type of enzyme used to paste or glue the daffodil gene into the rice DNA (1 Mark)

Scenario 2:

Traditional plastics are made from petroleum, a non-renewable fossil fuel. They take hundreds of years to decompose because their molecules are held together by exceptionally strong, stable **covalent bonds** that local soil bacteria cannot break down.

To solve this environmental crisis, biotechnologists have engineered a strain of soil bacteria to produce a natural polymer called PHA inside their cells. **PHA** looks and feels exactly like regular plastic but is completely biodegradable. When a PHA water bottle is thrown into the compost, soil microbes recognize the chemical links, break them down easily, and turn the bottle into water and carbon dioxide within a few weeks.

Tasks:

1. The Bacterial Factory: Explain how scientists can manipulate a bacterium's genetic code to force it to produce a completely new substance like PHA plastic. (2 Marks)
2. Bonding vs. Degradability: Both traditional petroleum plastic and PHA plastic are held together internally by covalent bonds. Based on the scenario, explain why soil microbes are able to easily break down PHA plastic but cannot destroy traditional plastic. (2 Marks)
3. State one major ecological advantage of replacing petroleum-based plastics with bacterial PHA plastics, other than reducing landfill waste. (1 Mark)

Scenario 3:

During a harsh winter, a city's maintenance department needs to clear thick ice from the roads. They have two options stored in their warehouse: **Crushed Rock Salt (Sodium Chloride NaCl and Liquid Rubbing Alcohol**.

The supervisor knows that spraying rock salt onto the ice will cause it to melt rapidly, even at sub-zero temperatures. However, spraying rubbing alcohol has almost no effect on the thick road ice.

Tasks:

1. **The Particle Break Down:** When NaCl comes into contact with thin moisture on the ice, it dissolves. Describe what happens to the ionic lattice structure of NaCl during this process, specifically mentioning the particles it breaks into. (2 Marks)
2. **Interfering with Ice:** Water freezes into ice by forming a highly structured, rigid crystalline network. Explain how the dissolved particles of an **ionic compound** NaCl physically interfere with water molecules to prevent them from freezing back into ice, whereas a **covalent compound** like alcohol cannot do this as effectively. (2 Marks)

Part 3: Force & Pressure

Total Marks:

(5)

<https://youtu.be/VRHjB9J1jFo?si=jODUUPE0e5LXzpLL>

Tasks 1: The Design Challenge

(2)

You are designing a brand-new school backpack for students who carry heavy textbooks.

- (a) From a physics standpoint, explain why you should design the shoulder straps to be **wide and padded** rather than thin and narrow. (1)

- (b) If a student carries a heavy bag by a thin plastic loop instead of the wide straps, describe what happens to the **pressure** felt by their hand, even though the weight of the bag hasn't changed. (1)

Task 2: Odd One Out

(1)

Look at the following three everyday items:

1. A sharp kitchen knife
2. A pair of wide snow skis
3. An iron nail with a pointed tip

Identify which item **does not** belong with the other two based on how it is designed to interact with surface area and pressure. Explain your choice.

Task3: Kitchen Physics

(2)

You are trying to cut a fresh piece of bread.

- (a) Explain why it is much easier to cut the bread using the sharp edge of a knife rather than the flat, blunt side of the blade. Refer to **surface area** in your answer. (1 Mark)
- (b) If you push down on the bread with the exact same amount of **force** using both sides, explain why only one side successfully cuts through. (1)

Computer:

(25)

Make a Comic Strip about "Internet Safety"

(10)

Tool: Use Canva, MS Word Skills Practiced: Storytelling, design, understanding online safety rules. Idea: Show a character that learns how to avoid online scams or bullying Attach snapshots and submit it in hard copy.

Topic: Research Report IOT

(15)

Instructions: Use the internet to research

Key points

- What is IOT
- Examples of IOT
- Benefits and uses of IOT
- Risk and security challenges of IOT
- Future work and conclusions
- Note: Submit the work as a hard copy.

کل نمبر ۲۵

اردو ادب

کتاب (Wings of fire) کا اردو ترجمہ "پیغام" مصنف اے۔بی۔جے عبدالکلام پڑھیں۔ اور مختصر جوابات تحریر کریں۔
(۱۰) [:https://share.google/WhLtq4X5suZgMDNIB](https://share.google/WhLtq4X5suZgMDNIB)

۱۔ پیشنگوئی کے مطابق دنیا میں امن لانے کے لیے کتنے ڈریگنز کی ضرورت تھی؟

۲۔ مٹی کے ڈریگن کی سب سے بڑی طاقت کیا تھی؟

۳۔ سنمی کس شاہی خاندان سے تعلق رکھتی ہے؟

۴۔ گلوری کو دوسرے ڈریگنز کیوں پسند نہیں کرتے تھے اور وہ کس نسل سے تعلق رکھتی تھی؟

۵۔ غار کے اندر ڈریگنز کی دیکھ بھال کون کرتا تھا؟

۲: کتاب پڑھنے کے بعد کتاب کے بارے میں اپنا تجزیہ تحریر کریں کم از کم 100 الفاظ۔ کتاب کا نام آگ کے پنکھ ہے۔
(5) <https://www.rekhta.org/ebooks/detail/aag-ke-pankh-a-p-j-abdul-kalam-ebooks?lang=ur>

۳: درسی کتاب کے اسباق (مناظر پاکستان، میجر شبیر شریف، کرپشن: ایک سماجی برائی) کی بلند خوانی کریں اور کم از کم ۲۰ مشکل الفاظ کے معنی تلاش کر کے ان الفاظ کے معیاری جملے تحریر کریں۔
(۱۰)

اردو گرامر

کل نمبر ۲۵

۱: گرامر کا "عجائب گھر"

گھر میں موجود کسی پرانی ناکارہ یا بے کار چیز جیسے ڈبہ بوتل یا پرانے کھلونے کو گرامر کے کسی اصول کا نام دیں۔ مثلاً ایک پرانے تالے پر چٹ لگائیں اسم آلہ اور اس کے ساتھ پانچ چابیاں کاٹ کر لگائیں جن پر چاقو چھری، قلم، جھاڑو، آری لکھیں۔

اسم ظرف زمان اسم جامد اسم مکبر اسم صوت کو گھر میں تلاش کریں۔

۲:

کوئی سی دو ضرب المثل کے پیچھے چھپی اصل کہانی تحریر کریں۔

۱۔ چراغ تلے اندھیرا

۲۔ بندر کیا جانے درخت کا ثواب

۳۔ ناچ نہ جانے آنگن ٹیڑھا

۴۔ رسی جل گئی پر بل نہ گیا

۳۔

انشاء پردازی کی کتاب سے محاورات کالم دڈ تا ع غ تک معنی اور جملے تیار کریں۔ موسم گرما کی تعطیلات کے بعد رپورٹ کارڈ ٹیسٹ لیا جائے گا۔

اسلامیات

کل نمبر ۲۵

1: حفظِ قرآن اور ترجمہ :

(15)

سورہ الکہف کی ابتدائی پہلی دس (10) آیات مع ترجمہ زبانی یاد کریں۔

نوٹ: گرمیوں کی چھٹیوں کے اختتام پر اس کا باقاعدہ زبانی ٹیسٹ لیا جائے گا۔

تحریری کام

2: سیرتِ حضرت عثمان غنی رضی اللہ عنہ

(5)

درج ذیل عنوانات کے تحت ایک تفصیلی تحریری رپورٹ تیار کریں:

(الف) سوانح عمری اور مبارک صفات :حضرت عثمان غنیؓ کا ابتدائی تعارف، حالاتِ زندگی، نبی کریم صلی اللہ علیہ وآلہ وسلم کے ساتھ آپؓ کا تعلق اور آپؓ کی نمایاں اخلاقی صفات (مثلاً سخاوت اور حیا) پر روشنی ڈالیں۔

(ب) دورِ خلافت اور فتوحات :حضرت عثمان غنیؓ کے دورِ خلافت کا تفصیلی احاطہ کریں اور آپؓ کے دور میں ہونے والی اہم اسلامی فتوحات اور کارناموں کو قلمبند کریں۔

3: تاریخی شخصیت کا مطالعہ

(5)

عنوان: "فاتحِ اندلس: طارق بن زیاد"

درج ذیل نکات کو مدنظر رکھتے ہوئے طارق بن زیاد پر ایک جامع اور تفصیلی نوٹ تحریر کریں:

(الف) حالاتِ زندگی اور تعارف: طارق بن زیاد کا ابتدائی پس منظر، ان کا جوش و جذبہ اور بطور ایک عظیم مسلم سپہ سالار ان کا مقام۔

(ب) فتوحات اور خدمات: فتحِ اندلس (اسپین) کا مشہور واقعہ، جبلِ طارق پر کشتیاں جلانے کا تاریخی اقدام، اور اسلامی تاریخ میں ان کی لازوال خدمات۔

(5)

