Karnal Sher Khan Cadet College Swabi

**INSTRUCTIONS FOR PARENTS / GUARDIANS / STUDENTS (CLASS 10th)**

Dear Parents / Guardians / Students

1. A Comprehensive Summer Vacations tasks is provided to the Cadets for utilizing available time during summer vacations. First Term Exams of class 10th & 11th shall be conducted from the syllabus taught and from the lectures given on Website, Portal & WhatsApp group. Additionally, **online tests have also been planned for the months of Jul and Aug,** with schedule reflected on College Website, to monitor progress.
2. **Objectives of Summer Vacations**. Following objectives need to be met for entire efforts: -
   1. Continuity of studies, at a slower pace to retain current with academics and avoid undue time wastage.
   2. Identify and address shortfalls observed so far, which otherwise are difficult to manage during active college routine.
   3. Explore other areas of Education for a comprehensive learning process.
   4. Improve upon reading and writing skills for enhanced personality attributes and effective examination management.
3. All academic subjects have been included in the Summer Vacations Tasks with additional assignment of a Book Review, English Communication Skills, Completion of Practical Note Books (theory and diagrams only) and a few other tasks concerning upcoming college events and completions.
4. Quiz cum Assembly Line educations has been introduced to improve attitude for learning. Details being shared separately.
5. Cooperation from parents shall be highly appreciated. Looking forward for meaningful and mutually rewarding interaction, Inshallah.

Director of Studies

(Mian Zahid Ur Rehman)

(Karnal Sher Khan Cadet College Swabi)

**Summer Vacations Task English for Class 10TH -2024**

**OIC:** Mr. Akbar Khan

**Dear Cadets!**

Inter House Debate Competition will be held in September, 2024 (Insha’Allah). During summer vacations, you are directed to prepare a debate on one of the topics listed below and submit it to your concerned subject teacher. You can write either in the **favor** of the topic or go **against** it. If your debate is approved, you will represent your House in the fourth coming debate competition. In case it is not approved for the said contest, it will be considered as Summer Task.

**Topics for Debate**

1. Social media is a platform of freedom of speech, or a tool of spreading misinformation among masses.
2. Knowledge-based economy versus defense-based economy
3. The will should be stronger than the skill.

**Objectives:**

* To assess cadets’ understanding of a pre-assigned topic through debate.
* To evaluate the depth of research conducted during the summer break.
* To gauge cadets’ decision-making abilities and personal opinions.
* To clarify the concept of debate and its impact on individuals.

**Format:**

1. **Speakers**: Total 6 cadets-- Three will argue for and Three against a specific motion(topic)which will be decided on draw.
2. Pre-debate Poll: Before the speakers begin, cadets will be given a sheet to indicate their initial stance on the motion by marking either “1” (in favour) or “2” (against). The total votes for each side will be displayed on a screen.
3. Speaker Presentations: Each guest-speaker will present their arguments on the assigned motion.
4. Question and Answer: Following the presentation, cadets will have the opportunity to ask questions related to the topic.
5. Post-debate Poll: After the Q&A session, cadets will receive another sheet to indicate their final position on the motion (marking “1” or “2” again. The update vote totals will be displayed on the screen.
6. Evaluation: No specific team is competing. The aim is to assess the cadets individual concept formation, research depth, and ability to form and revise opinion based on presented arguments and Q&A Session.
7. Awards: shields may be awarded to recognize outstanding participation(optional)

**Logistic:**

* Officer in Charge (OIC) will assign each row in the auditorium a cadet who will be responsible for collecting votes from their row.
* The designated cadet will collect initial and final votes by having each member of their row mark “1” (in favour) or “2” (against) on the provided sheets.
* The completed sheets will be forwarded to designated compiler who will tally the votes and display the results on the screen.

**Parameters**:

* Academic value
* Debating issue for arguments and counter arguments, not one-sided discussion
* Intended for opinion and feedback

**Note:** Complete the following on separate sheets and submit it to your subject teacher.

**Textbook**

1. Read unit no **1**, **2**, **3**, **4** and **5** of the book carefully and write the summaries of unit no **1**, **2**, **4** and **5** in your own words.
2. Paraphrase the stanzas of the poem “Dreams” by Langston Hughes. **(Unit 3)**
3. Make at least **40 MCQs** from the above units. These MCQs must comprise vocabulary, grammar, and poetic devices and some thought/idea expressed by the writer.

**Essay Writing**

Write comprehensive essays on the following topics:

1. Climate change; causes, impacts and remedies.
2. The impact of social media on mental health.
3. The role of historical figures in shaping modern times.
4. The future of renewable energy
5. The benefits and drawbacks of space exploration.

**Comprehension Passages**

Make a collection of different comprehension passages, read them carefully and answer the questions **(5)** given at the end.

**Note:** You can download Comprehension passages from internet.

**Dialogues**

**Write a dialogue between:**

1. Two friends discuss the pressures of balancing academics, extracurricular activities, and personal life.
2. Two siblings argue about sharing household chores and responsibilities, ultimately trying to find a compromise.
3. Two teenagers debate with their each other whether to prioritize following the crowd or staying true to their own interests.
4. Two characters from a classic novel you've read meet and have a conversation about their experiences in the story.
5. Two students plan a fundraising event for a cause they care about and discuss their different ideas.

**Language Task**

Visit **6 Minutes English (**An English learning program initiated by BBC). Watch the videos available there and write the summary of five (5). Also, make a separate list of the vocabulary items for each video. The link is available below.

https://www.bbc.co.uk/learningenglish/english/features/6-minute-english

**Book Review:**

Buy a book of your choice from market. Read it thoroughly during summer vacations and write its review by following the mentioned pattern and adhering the instructions given in the class:

1. Write introduction of the book briefly.
2. Summarize the book
3. Personal Input; Your opinion, quotes/dialogues you liked, favorite character etc.
4. Recommendation
5. Conclusion

Note: **Summer Task is credited and carries 25 marks in 1st Term Exam.**

**Biology Home Work for Class 10th, Session 2024/25**

**Note:** All the students of Class 10th are required to complete following tasks/home work during summer vacations. These tasks (homework) carry 25% marks of the exam that will be conducted after summer vacations The exam will consist of course taught in college and homework assigned for summer vacations. So properly prepare homework and study the topics taught in the college.

Parents are required to sign each task after completion, otherwise will not be accepted.

**Tasks/Homework details:**

|  |  |
| --- | --- |
| **Visual Work** | |
| 1. | Watch and study Video Lectures of Selected topics from Chapter 11 and 12.   |  |  | | --- | --- | | **CH 11. Homeostasis** | | | Human Kidney | Kidney stone | | Human Urinary System | Nephron | | Excretion in human | Urine Formation | | Skin as homeostatic organ | Excretion in plants | | Kidney Failure | Aspects of homeostasis | | Dialysis | Kidney as Osmoregulatory Organ | | Types of kidney stones | Kidney transplant | | **CH 12. Coordination and Control** | | | Human nervous system | Reflex Arc | | Neuron | Spinal Cord | | Working of Nervous system | Divisions of Nervous system | |
| **Diagrammatic Work** | |
| 2. | Draw neat and label diagrams of Chapter 10, 11, and 12. |
| **Written Assignments** | |
| 3. | * Read the student learning outcomes (SLOs) given at the beginning of Chapter 10, 11, and 12 and prepare your notes accordingly to the SLOs. * Prepare 20 MCQS of Chapter 10, 11, and 12 and segregate them into three categories i.e. Knowledge-based, conceptual-based and application-based. * Complete practical notebooks without reading. * Past five years Board papers attempting practice and submission. |
| 4. | Write and prepare conceptual Short Question of Chapter 10, 11, and 12. |
| **Projects/ Models** | |
| 5. | Design and prepare a model/project on any biological topic/idea of your own interest e.g.   1. Human respiratory system 2. Human excretory system 3. Neuron model 4. Chapterwise **(Chapter 10, 11 ,12)** reckoners/flow charts are required to be prepared. |

**Contact no.**

Muhammad Ilyas

0316-9554281

**Summer Vacation Task Computer Science - Class 10th**

1. **Reading/Understanding**. Kindly study and understand the following Chapters/ topics from the KP textbook (Class 10th) or any other book you have.
2. **Chapter- 1** (Problem Solving)
3. **Chapter -6** (Digital Logic and design)
4. **Chapter -7** (World Wide Web and HTML) : The following selected Topics Only:

What is WWW? What is Web Page, Web Browser, URL, Website , Search Engine and Web hosting? Types of Website. What is Hyperlink ?What is HTML?

**Note :** For HTML programing watch video lectures / Tutorial on YouTube.

1. **Written work:**
2. Prepare 20 MCQs in the topics of each chapter other than exercise.
3. Study and prepare notes of the above mentioned topics in writing (in a separate notebook) and bring it along with after summer vacations.
4. Solve Two Past papers of computer (2022 and 2023) of Mardan board.
5. Write Algorithms and draw Flowcharts of questions included in chapter no.1
6. Draw Logic Circuit and Truth Tables for AND, OR & NOT Gate.
7. Prepare your Practical notebook.
8. **Post Summer Exam will be conducted in the above topics.**
9. **Presentation:**

Prepare a presentation on the Topic **“Cyber Security treats and Cyber Crimes Cyber / Social Media Ethics”.** Bring the Presentation in USB or email to [jawad.cs83@gmail.com](mailto:jawad.cs83@gmail.com)

1. **Projects / Models:**

**Prepare the following projects already assigned to the groups.**

* 1. Prepare Scientific calculator
  2. Guide map of KSKCCS
  3. Cadet colleges in Pakistan website
  4. Online Rent a Car System

**Note: In case of any query please contact on 03369908747 through WhatsApp . Mr. Jawad Ali Khan , Assistant Professor, KSKCCS.**

**Chemistry**

1. **Chapter 13: Biochemistry**

* Carbohydrates & Classification of carbohydrates
* Physical properties of carbohydrates
* Sources and uses of carbohydrates
* Proteins
* Amino acid as building block
* Sources and uses of proteins
* Lipids
* Classification of lipids
* Fatty acids
* Sources and uses of lipids

1. **Chapter# 14: Environmental Chem (The Atmosphere)**

* Introduction, Atmosphere & composition
* Air pollution
* Sources of air pollution
* Acid Rain and its effects
* Formation of acid Rain
* Ozone depletion
* Global warming

**Summer Vacations Written Assignments**

* Prepare the notes of each topic of the chapter No 09 & 10.
* Solve all the numerical and assignment of chapter No 09 & 10.
* Complete the practical note book, except values & observations.
* Write the 15 formula and names each from Acid, Base & Salt.
* Prepare 20 MCQs with option from chapter Biochemistry & Environmental Chemistry.

**MQ and Islamiyat**

|  |  |  |
| --- | --- | --- |
| **M.Q** | **Isl** | **Remarks** |
| The main theme of  1 . Surah Ina ’am  2 .Surah Aa’raf  3 .Surah Younas  **(For memorizing)** | 1 . The main theme/Topic of surah Ahzab**(For memorizing)**  2 . 1st three ahadith  3 . 1st two mauzuaty mutalia  **(For written and memorizing)** |  |

**Summer task for Class-10th: Mathematics**

1. **Reading/Understanding**. Kindly read and understand the following topics from Mathematics Book Class 10th, KP textbook or any other book (you have) as these topics have already been studied and discussed in the previous classes (7th, 8th, 9th).

|  |  |  |
| --- | --- | --- |
| **S.NO** | **Chapters** | **Video links of the Topics** |
| **i.** | **Chapter#05**  **Sets and functions.** | Links:   * <https://youtu.be/zDi4fa71hjl?si=OTpUl0bHXEY4wDme> * <https://youtu.be/9xY2z-G6w8Y?si=g0fZNDEKDpHxsf37> * <https://youtu.be/BprPmgclLcM?si=WmeFHnaVmfnER4D8> |
| **ii.** | **Chapter#01 Quadratic Equations** | Links:   * <https://youtu.be/WhToqx6rJSo?si=DxKecCRye48Gh5cB> * <https://youtu.be/3M9TngmDpDY?si=Kiy8OxBg6AoLAlqY> |
| **iii.** | **Chapter#03 Variations.** | * Ratio, Proportion, Variation * https//youtu.be/iaDkDUVthWM?si=eqAiq3Fym-R7Ycg3 |
| * Proportion and its types * <https://youtu.be/U4yxZgO-Ua4?si=Dc4N2BkcpRfbPOyb> |
| * Joint Variation * <https://youtu.be/iT6CjreTbmg?si=JOYBCnvmNU7IeEc7> |
| * Word problems * <https://youtu.be/nYds-L1Baw8?si=HOc-4hRE9RaT8nlj> |

1. **Summer task**
2. Video and Notes of each topic will also be provided to the cadets (Links of videos are given with the topics). All cadets of Class-X are directed to Watch these videos, and study the notes.
3. Cadets will also learn & Solve on all exercises of chapter# 1, 3, 4, 5 along with review exercises and will submit on their arrival after summer vacations.
4. Cadets will write 30 MCQs of each chapters (10 Knowledge, 10 Conceptual & 10 Application base) on sheets and will submit these MCQs on their arrival after summer vacations.
5. Cadets will write the formula and the derivation of Formula of each chapter on charts/ Sheets.

**Note: In case of any query or misunderstanding or difficulty, Kindly contact me 0313-9090531 (WhatsApp or Call)**

**Mr. Muhammad Jamil Asst Prof in Mathematics, KSKCCS.**

**Pakistan Studies**

**A) Written work.**

**Note: Below Questions are mainly from chapters, (01,General Knowledge)**

Q-1. Reforms introduced by Zulfiqar Ali Bhutto Government**. (CHAPTER NO=01**)

Q-2. Constitution of 1973. **(CHAPTER NO=01)**

Q-3. General Zia-ul –Haq Regime and process of Islamization after 1977**. (CHAPTER NO=01**)

Q-4. Benazir first term of government 1988-90. **(CHAPTER NO=01**)

Q-5. Nawaz Sharif 2nd term in office 1997-99**. (CHAPTER NO=01**)

Q-6. Government and reforms of General Pervez Musharraf 1999-2008 **CHAPTER NO=01**)

Q-7. War on Terror and its effects on Pakistan (General Knowledge)

Q-8. Pakistan as a Non-NATO Ally. (General Knowledge)

Q-9. Pakistan A Nuclear Power State. General Knowledge)

Q-10. Energy Crises in Pakistan. (General Knowledge)

**B) Map Orientation:**

**i**) Draw OR download One-Belt Road(OBOR) map of CPEC (. General Knowledge)

II) Draw OR download map list of the World countries, capitals and flags. (General Knowledge)

**C)Assignment:**

i) What is the political polarization and what do you suggest to overcome this issue from Pakistan’s politics.

ii) “Why democracy fail in Pakistan in a true sense. What do you suggest to strengthen this political institution?

3 What does it mean by Good governance and its implications on economic stability in the country?

**D) Current Affairs/General Awareness**

i) US China Trade War and its Impact on Global Economy.

ii) Saudi Arabia’s status in Hamas Israel Gaza War

iii) North Korea Nuclear Deterrence and US response

**Links for VIDEOS and Documentaries on different Topics**

1)<https://youtube.com/@arqstudios?feature=shared>

2). <https://youtube.com/@urdupages786?feature=shared>

3). <https://youtube.com/@bspoliticalscience92?feature=shared>

4). <https://youtube.com/@peacemongersoul?feature=shared>

5).https://youtube.com/@aljazeeraenglish?feature=shared

Contact- Riaz Anwar(0342-8549976-0313-9218456)

M.Ijaz (0345-9209043)

**Home Task Physics class 10th summer vacations 2024**

1. **Reading**

Kindly do read and understand the following topics from the KP textbook or any other book you have as these are the topics already been discussed and studied in the previous classes and will be included in 1st term exam along with chapters-10 &11.

|  |  |  |
| --- | --- | --- |
| **S No** | **Chapters** | **Topics** |
| **1** | **Ch. No 12**  **(Geometrical optics)** | Reflection of Light & laws  Spherical Mirrors terminologies  Refraction of Light , refractive index  Total Internal Reflection & applications  Refraction Through Prism  Lenses & its formula  Power of lens & Image Equation  Simple Microscope  Human Eye, Defects of Vision |
| **2** | **Ch. No 14**  **(Current electricity)** | House circuits  Circuit components & symbols  Use of circuit components  Activity at page 158 |
| **3** | **Chapter No 17**  **(ICT)** | Information Storage Devices  Internet and email  Computer  Hard Disk, floppy, USB, CD & DVD |
| **4** | **Chapter No 18**  **(Nuclear physics)** | Atom & Atomic Nucleus  Hazards and safety from radiation |

**IMPORTANT INSTRUCTIONS:**

* Write and memorize all the formula and diagrams/figures included in chapter 10, 11& 12 on the chart.
* Complete practical note books without observations and calculation.
* Solve last five years board papers, questions of the 1st term syllabus only.
* Syllabus for first term exam is chapter 10, 11 and all above topics.
* Highlight the MCQs in book in 1st term course.

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* **Note: In case of any misunderstanding kindly contact 03129131928**

**Sayed Ur Rehman, Physics KSKCCS.**

**گھر کاکام برائے تعظیلات موسم گرما جماعت دہم – سال 2024**

1۔ کسی بھی ادبی کتاب (کسی بھی سفر نامے یا تاریخی کتاب وغیرہ ) کا مطالعہ کریں اور اس کا تجزیہ (تنقیدی نوٹ/ تاثرات) لکھیں جو کم از کم دو سے تین صفحات پر مشتمل ہو۔ کتاب کے تجزیاتی مطالعے کی ترتیب یہ ہے ۔

**کتاب کے تجزیاتی مطالعے کی ترتیب**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| کتابی معلومات: کتاب کا نام مصنف  نوع یعنی قسم صفحات | مرکزی خیال / تھیمز | کتاب کے بارے میں اپنی پسند یدگی یا نا پسندیدگی کا اظہار (خیالات / وجوہات ) | مصنف کا اسلوب (اندازِ تحریر)  خوبیاں اور خامیاں | کرداروں کی نشوونما (خصوصیات) | کتاب کا مجموعی اثر/ تاثر (اثرپذیری) | اپنے تجزیے کا خلاصہ لکھیں جو 500 الفاظ سے کم نہ ہو | کیا آپ یہ کتاب دوسروں کے لیے تجویز کریں گے یا نہیں اور کیوں؟  (دونوں صورتوں میں اپنی رائے کا اظہار کیجیے) | کتاب کی درجہ بندی  (10-1 پوائنٹس) |

2۔ مندرجہ ذیل عنوانات میں سے کسی پانچ عنوانات پر 250 سے 300 الفاظ پر مشتمل مضمون لکھیں:-

الف: میری زندگی کا مقصد ب۔ مخلوط تعلیم ۔۔۔میری نظر میں ج۔ کل اور آج کے طالب علم میں فرق

د۔ اردو بحیثیت ِ قومی زبان ر۔ اقبال ۔۔۔۔امتِ مسلمہ کا فخر

3۔ "**شریک ِ جرم ہی ہوگا جو اب رہا خاموش** "پر 4 سے 5 منٹ کے دورانیے کی تقریر لکھ کر لائیں۔ تقریر لکھنے میں والدین، بہن بھائی یا کسی اور رشتہ دار وغیرہ سے مدد لے سکتے ہیں ۔

4۔ پاکستان سے روزانہ شائع ہونے والے کوئی بھی پانچ اردو اخبارات اور اردو رسالوں (ہفتہ وار یا ماہانہ) کا مطالعہ کریں اور ان میں سے آپ کو جو بھی ایک اخبار اورایک رسالہ پسند آئے تو مندرجہ ذیل پہلووں پر روشنی ڈالیں ؛-

ا۔ زبان و بیان ب۔ خیالات و واقعات کی نوعیت ج۔ تہذیب و ثقافت کی نمائندگی د۔ تاریخی حوالہ ر۔ تفریحی عناصر ڑ۔ مزاحیہ پہلو س۔ اخلاقیات و کردار سازی کا رجحان

5۔ کلاس میں پڑھے گئے اسباق کے علاوہ سبق نمبر 4 حصہ نثر جب کہ نظم نمبر 2 اور غزل 2 کے لنکس دیے گئے ہیں ، دورانِ تعطیلات انھیں غور سے سنیں اور سمجھنے کی کوشش کریں کیوں کہ واپسی پر انھیں تمام اسباق میں آپ کا امتحان لیا جائے گا۔

6۔ گزشتہ تین سالوں کے صرف سالانہ امتحانات کے پرچے حل کرکے لانا۔پرچہ حل کرنے میں کتاب اور نوٹس سے مدد لے سکتے ہیں۔

7۔ مندرجہ ذیل موضوعات پر خطوط لکھیں:

الف۔ آپ کا امریکن دوست پاکستان آنے کا خواہش مند ہے، آپ کو خط لکھتا ہے اور پاکستان کے بارے میں معلومات حاصل کرنا چاہتا ہے،جواب میں اس کو پاکستان کی ایسی خوبصورت اور دلکش لفظی تصویر بناکر بھیجیں تاکہ وہ لمحہ ضائع کیے بغیرپاکستان پہنچ جائے۔

ب۔ اخبار کے مدیر کے نام خط لکھیں جس میں بتائیے کہ آپس کی لڑائیاں ایک حیوانی فعل ہے اور معاشرتی طور پر اس کے کیا نقصانات ہیں۔

**ہدایات برائے کیڈٹس :**

**1۔ ہر سوال کے لیے الگ صفحات استعمال کریں ، دل جمعی اور دلچسپی کے ساتھ خوشخط اور صاف ستھرا لکھیں۔**

**2۔ تمام سوالات کے الگ الگ نمبرات دیے جائیں گے۔پریذنٹیشن (Presentation)صفائی اور خوشخطی کے الگ نمبرات ہوں گے۔**

**3۔ مضامین اور تقریرلکھنے میں انٹرنیٹ سے(copy to copy) ، کتاب یاکسی بھی دوسرے کیڈٹ سے نقل کرکے لکھنا قابل قبول نہیں۔ اس صورت میں کیڈٹ سزا کا مستحق قرار پائے گاجس کا تعین بعد میں کیا جائے گا۔**

**4۔ اگر سہولت موجود ہو تو تقریر ٹائپ کرکے لائیں بہ صورتِ دیگر ہاتھ سےصاف ستھرا اور خوشخط لکھیں۔**

**5۔ والدین سے گزارش ہے کہ تعطیلات کے دوران اپنے بیٹے پر خصوصی توجہ مرکوز کریں تاکہ دیا گیا کام وقت پر مکمل کیا جاسکے۔**

**6۔ کوئی مشکل درپیش ہو تو اس نمبر 03339188559 پر کال کرکے پوچھ لیں۔**

**منظر علی افغان**

**صدرِ شعبۂ اردو**