



Pakistan International School Jeddah

Pakistan Studies

Summer Vacations H/W

Grade: IX

Q1. Answer the following questions. (short)

1. Muslim Nationhood is based on Islam (Explain according to Allama Iqbal).
2. Express Fundamental of Pakistan Ideology.
3. Ijtihad is a Pre-requisite of Progress. Explain.
4. When and why All India National Congress was founded?
5. Discuss the purpose of the All India Muslim League.
6. Write a note of Congress rule in 1937.
7. Discuss briefly effects of Khilafat movement.
8. Indicate the two proposals of Cripps Mission 1942.
9. Elaborate the results of the round table Conferences
10. Write a short note on Simla Conference 1945.

Long Questions

- Q1. Write a note on "The Lahore Resolution"? (in detail)
- Q2. What do you know about Partition of Bengal? How this point proved to be a turning point for the Muslims in Sub continent?
- Q3. Explain briefly the role of Sir Syed Ahmed Khan for the Muslims of Sub continent?
- Q4. Trace the origins and evolution of the Two Nation Theory?

Q5. Explain the Ideology of Pakistan with reference to the basic values of Islam and social Cultural milieu of Muslim India?

. درج ذیل سوالات کے جواب دیں۔(مختصر/جواب)
مسلم قومیت کی بنیاد اسلام پر ہے (علامہ اقبال کے مطابق وضاحت کریں)۔
نظریہ پاکستان کا بنیادی کی وضاحت کریں ۔
اجتہاد پیش رفت کے لیے ایک شرط ہے .وضاحت کریں۔
آل انڈیا نیشنل کانگریس کب اور کیوں قائم ہوئی؟
آل انڈیا مسلم لیگ کے مقاصد پر بحث کریں۔
1937 میں کانگریس کی حکمرانی کا ایک نوٹ لکھیں۔
تحریک خلافت کے اثرات پر مختصراً گفتگو کریں۔
کرپس 1942 کی دو تجاویز کی نشاندہی کریں۔
گول میز کانفرنس کے نتائج کی وضاحت کریں؟
شملہ کانفرنس 1945 پر ایک مختصر نوٹ لکھیں۔

تفصیل سے جواب دیں

قرارداد لاہور " پر "

ایک نوٹ لکھیں؟

بنگال کی تقسیم کے بارے میں آپ کیا جانتے ہیں؟ یہ نقطہ
برصغیر کے مسلمانوں کے لیے کس طرح ایک اہم موڑ ثابت
ہوا؟

برصغیر کے مسلمانوں کے لیے سرسید احمد خان کے
کردار کی مختصر وضاحت کریں؟

دو قومی نظریہ کی ابتدا اور

ارتقاء کا سراغ لگائیں؟

. اسلام کی بنیادی اقدار اور مسلم ہندوستان کے سماجی ثقافتی ماحول کے حوالے
سے نظریہ پاکستان کی وضاحت کریں

for Mcqs kindly click on this link to attempt it.

<https://docs.google.com/document/d/1q-5FH0pscdXiLaWJmKK7UH2x3dxW-zOS/edit?usp=sharing&oid=103626923292536731045&rtpof=true&sd=true>
<https://www.ilmkidunya.com/online-test/pakistan-study-9th-class-online-test-mcqs.aspx>

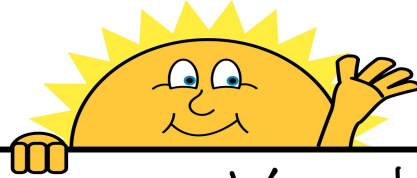




Senior Girls Section
Session 2023 – 2024

SUBJECT:

BIOLOGY



Summer Vacation

HOMEWORK

Class: IX

Short Q/Ans

- Q1. Search about the emerging careers of biology and record in your files with relevant pictures:
i. Bioinformatics ii. Biomedical Engineering.
- Q2. Explain the division of labour among multicellular organisms.
- Q3. Write a short note on Endoplasmic reticulum? Differentiate between rough and smooth endoplasmic reticulum.
- Q4: Describe the internal structure of chloroplast and compare it with that of mitochondria.
- Q5. Why are quantitative observations considered better than qualitative observations?
- Q6. Differentiate between the nutrition methods in plants and fungi.
- Q7. Write the structure function of Golgi apparatus?
- Q8. Differentiate between:
- i) eukaryotic and prokaryotic cell
 - ii) voluntary and involuntary muscles
 - iii) phagocytosis and pinocytosis
 - iv) diffusion and facilitated diffusion
 - v) magnification and resolution
 - vi) endocytosis and exocytosis.
- Q9. Compare the functions of cell membrane and cell wall.
- Q10. Write the aims and rules of binomial nomenclature.

Long Q/Answers

- Q1. Draw and Label the parts of the animal and Plant cell. Write their distinguishing features.
- Q2. Identify the causes and effects of deforestation.
- Q3. Discuss water balance problems in animals and plants.
- Q4. Discuss the role of osmosis in turgidity of guard cells.
- Q5. Investigate careers that require an understanding of cell biology.
- Q6. Write a note on meristematic tissues in plants and muscle tissues in animals.

“Enjoy Your Summer Vacation with Family, and do remember me in your prayers. “

Thank you

**Protect your Earth, conserve your Environment.
Grow plants!**



Prepared by: Zubaida Mustafa



Pakistan International School, Jeddah
Summer Vacation Homework

Grade: IX

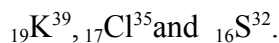
Subject: Chemistry

Write short answers of the following questions.

Q1 Differentiate between analytical and physical chemistry (at least two).

Q2 Draw the structure of isotopes of chlorine.

Q3 Identify the relationship between electronic configuration and the position of an element in the periodic table.



Q4 How many protons and neutrons are there in an atom having $A = 238$ and $Z = 92$.

Q5 How can you justify that air is a homogenous mixture. Identify substances present in it.

Q6 what are the defects in Rutherford's atomic model?

Q7 Define relative atomic mass, why atomic mass of an atom is defined as relative atomic mass?

Q8 Calculate the number of moles, number of molecules and number of atoms present in 6 grams of water.

Q9 How experimental results of some scientists help chemist to formulate new theories and new explanation.

Q10 Alkali metals belong to S-block in the periodic table, why?

Long Questions

Q1 (a) Define empirical and molecular formula. Show the formation of empirical formula from molecular formula of the given compounds: $\text{C}_6\text{H}_{12}\text{O}_6$, $\text{C}_8\text{H}_{16}\text{O}_2$ and $\text{C}_{12}\text{H}_{22}\text{O}_{11}$. Find out their molecular mass.

(b) Why does the trend of electron affinity and electronegativity is same in a period?

Q2 (a) How Rutherford discovered that atom has a nucleus located at the center of the atom, Explain with the help of diagram and its conclusions?

(b) Explain how Bohr's atomic theory differed from Rutherford's atomic theory.

Q3 (a) Justify the statement, bigger size atoms have more shielding effect thus low ionization Energy

(b) Electronic configurations of four elements are given below:

(a) $1s^2, 2s^1$ (b) $1s^2, 2s^2, 2p^5$ (c) $1s^2, 2s^2, 2p^6, 3s^2$ (d) $1s^2$

Which of these elements is

i) An alkali metal

ii) An alkaline earth metal

iii) A noble gas

iv) A halogen

Q4 (a) There are 3.01×10^{23} molecules of CO_2 present in a container. Calculate the number of moles and its mass.

(b) Write electronic configuration for the following elements, explain in which block, group and period in the periodic table where would you place each of the following elements

(a) ${}_{14}\text{Si}^{28}$ (b) ${}_{12}\text{Mg}^{24}$ (c) ${}_{13}\text{Al}^{27}$ (d) ${}_{18}\text{Ar}^{20}$

Q5. (a) Discuss properties of atoms that are influenced by the electronic configuration: atomic size, ionization energy, electron affinity and electronegativity. Also show consistent changes or trends, within a group or a period?

(b) Define shielding Effect? Choose the element whose atoms you expect to have smaller shielding effect.

(a) F or Cl

(b) Li or Na (c) B or Al

Note: Students you will make login to this website, after completing your taske,and do send me image of your work

<https://www.khanacademy.org/science/ap-chemistry-beta/x2eef969c74e0d802:atomic-structure-and-properties/x2eef969c74e0d802:moles-and-molar-mass/e/moles-and-molar-mass>



Pakistan International School Jeddah
Section (2023-24)

Senior Girls

Islamic Education Class 9th Summer Vacation Task

Prepared by: Attia Yasmeen/Asma Tariq

INSTRUCTION ABOUT SUMMER HOLIDAY HOMEWORK

1. Work should be neat, tidy, and well organised.
2. For online students Prepare PDFs for the written work and submit them in GCR, but students on campus should write in their files.

**“The best preparation for tomorrow is doing your best today”
so start planning a productive & exhilarating vacation today!
Hoping your summer includes lots of family time, nourishment
of mind & body, laughter, and fabulous memories**

Short Questions

1. According to the hadith, who will be counted first on the Day of Judgment?
2. What is meant by establishing prayer? Also, prayer prevents us from what things?
3. Write the names of famous angels and explain their duties.
4. What is the difference between the Holy Book and the Scripture
5. What are the literal meanings of Wahee and How many ways are there of revelation?
6. What triggered the Conquest of Makkah?
7. What was the treaty of Al-Hudaibiyah and what were the consequences?
8. What does Hunain mean?

9. What are the main reasons behind the initial loss of Muslims in the Battle of Hunain?

10. Write a verse about the obligation of the fasting

1. حدیث کے مطابق قیامت والے روز سب سے پہلے کس کا حساب لیا جائے گا؟
2. نماز قائم کرنے سے کیا مراد ہے؟ نیز نماز ہمیں کن باتوں سے روکتی ہے؟
3. مشہور فرشتوں کے نام لکھیں اور ان کے فرائض بیان کریں۔
4. آسمانی کتاب اور صحیفے میں کیا فرق ہے؟
5. وحی سے کیا مراد ہے اور وحی آنے کے کتنے طریقے کے تھے؟ انبیاء کی دو مشترک خصوصیات لکھیں۔
6. روزے کی فرضیت کے بارے میں ایک آیت لکھیں۔
7. فتح مکہ کا سبب کیا تھا؟
8. حنین کا کیا مطلب ہے؟
9. جنگ حنین میں مسلمانوں کے ابتدائی نقصان کے پیچھے بنیادی وجوہات کیا ہیں؟
10. معاہدہ الحدیبیہ کیا تھا اور اس کے نتائج کیا تھے؟

Long Question

Q-1. Write a note on the importance and virtue of fasting in the light of the Quran and Sunnah and make a list of Masnoon works to be done in Ramadan Mubarak.

قرآن و سنت کی روشنی میں روزے کی اہمیت و فضیلت پر نوٹ تحریر کریں نیز رمضان مبارک میں کیے جانے والے مسنون کاموں کی فہرست بنائیں۔

Q-2. Write a note on the belief of the end of Prophethood in the light of Quranic verses and hadith

عقیدہ ختم نبوت پر نوٹ قرآنی آیات اور حدیث کی روشنی میں تحریر کریں

Q-3. Write the revelation of Surah Anbiay and Surah Furqan and the articles of these Surahs.

سورہ انبیاء اور سورہ فرقان کا شان نزول اور ان سورتوں کے مضامین تحریر کریں۔

Q-4. Read the following Ayat and write the answers to the questions given at the end

درج ذیل آیت کو پڑھیں اور آخر میں دیئے گئے سوالات کے جوابات لکھیں

<p>1. اس آیت میں کس چیز کے آنے کی خبر دی گئی ہے اور یہ خبر دینے کی کیا حکمت تھی؟</p> <p>2. السَّاعَةَ کے کیا معنی ہیں؟</p> <p>What has been announced in this verse and what was the wisdom of giving this news?</p> <p>What is the meaning of السَّاعَةَ?</p>	<p>إِنَّ السَّاعَةَ آتِيَةٌ أَكَادُ أَخْفِيهَا لِتُجْزَىٰ كُلُّ نَفْسٍ بِمَا تَسْعَىٰ Verily, the Hour is coming and My Will is to keep it hidden that every person may be rewarded for that which he strives</p> <p>بیشک قیامت آنے والی ہے قریب تھا کہ میں اسے سب سے چھپاؤں کہ ہر جان اپنی کوشش کا بدلہ پائے</p>
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Q-5. Read the following blessed hadiths and write the answers to the questions given at the end

درج ذیل احادیث مبارکہ کو پڑھیں اور آخر میں دیئے گئے سوالات کے جوابات لکھیں

<p>1. خیارکم لئنسائهم کے معنی اور مفہوم لکھیں</p> <p>2. اس حدیث مبارکہ کی رو سے اچھے اخلاق لکھیں</p> <p>3. اس حدیث کا عملی زندگی سے تعلق واضح کیجئے</p> <p>1. Write the meaning and significance of خیارکم لئنسائهم</p>	<p>أَكْمَلُ الْمُؤْمِنِينَ إِيمَانًا أَحْسَنُهُمْ خُلُقًا، وَخِيَارُكُمْ خِيَارُكُمْ» «لئنسائهم»</p> <p>The most complete of the believers in faith, is the one with the best character among them. And the best of you are those who are best to your women</p> <p>مومنوں میں سے کامل ترین ایمان والا وہ ہے جو اپنے اخلاق میں بہترین ہے اور ان میں سب سے بہتر وہ ہیں جو اپنی بیویوں کے لئے بہتر ہیں۔</p>
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<p>Write good morals on the basis of .2 this blessed hadith</p> <p>Explain the relation of this hadith to .3 practical life</p>	
<p>1. فَلَيْسَ مِنَّا كے معنی اور مفہوم لکھیں</p> <p>2. اس حدیث کے مطابق بڑوں کے حقوق بیان کریں</p> <p>3. اس حدیث مبارکہ کا عملی زندگی سے تعلق واضح کیجئے</p> <p>Write the meaning and significance of فَلَيْسَ مِنَّا</p> <p>Explain the rights of adults according to this hadith</p> <p>Explain the relation of this hadith to practical life</p>	<p>مَنْ لَمْ يَرْحَمْ صَغِيرَنَا وَيَعْرِفْ حَقَّ كَبِيرِنَا فَلَيْسَ مِنَّا "</p> <p>Those who do not show mercy to our young ones and do not realise the right .of our elders are not from us</p> <p>جو ہمارے چھوٹوں پر رحم نہیں کرتا اور بڑوں کا حق نہیں پہچانتا وہ ہم میں سے نہیں۔</p>

Dear Students:
open the given link to solve the worksheet.

https://docs.google.com/forms/d/e/1FAIpQLSfeW3jLbedGygJS7rysgYeNHfujgn5liKfFxqfBTux2xrjQHg/viewform?usp=sf_link

https://docs.google.com/forms/d/e/1FAIpQLScWsmIDI3FyRkbbzK1jCYkmeWIU0SHQz1JxX4E_dcHnsZklGg/viewform?usp=sf_link



PAKISTAN INTERNATIONAL SCHOOL JEDD

SUBJECT: ART & MODEL DRAWING

GRADE: IX



SHORT QUESTIONS:

- i. Which building is the symbol of unity of Pakistan? Explain
- ii. Why Badshahi Mosque is Famous in the World?
- iii. Where is Julian Monastery situated?
- iv. What is Arts?
- v. What are the elements and principles of arts?
- vi. What is the height of Minar e Pakistan?
- vii. Define Dynamic and Static Arts.
- Viii. What is the architectural plan of Jian Monastery?
- ix.. How many room are there in Julian Monastery?
- x. The Mausoleum of Quaid is the iconic symbol of Pakistan.

Creative Projects.

1. Make a master piece with plastic spoons. Minimum Size 10 inches
2. Make a Pencil holder. Material can be used Tissue paper roll, tissues, etc. size 8 inches.





Summer Vacation Homework

Subject: G.Science

Prepared by: Ms. Shaista Kausar

Class: 9th

Part-A

Answer the following questions :

- (i) What is the difference in photosynthesis and respiration process?
- (ii) Figure out role of chlorine and iodine in daily life?
- (iii) Air contains 78% Nitrogen still we add Nitrogen fertilizer in the soil. Why?
- (iv) Elaborate the different types of iron and their uses .
- v) Why ice has lower density than the water ?
- vi) How are calcium oxide, calcium carbonate and calcium sulphate useful for us ?
- vii) Why haemoglobin is important in respiration ?
- viii) Discuss the contributions of Dr . Abdul Qadeer Khan in the field of science.
- ix) Discuss the role of Physics in the field of science.
- x) Why ice made in a fridge by keeping water in a container has shaped upper surface ?

Part-B

- Q.1 Describe the growth of scientific process in different four periods.
- Q.2 Explain the concept of science in Islam.
- Q.3 Elaborate the importance of phosphorous for our health and in agriculture.
- Q.4 Describe the types of carbon compounds and their abundance.
- Q.5 Write down applications of sodium metal and its compounds in daily life.

Link for assessment:

<https://www.ilmkidunya.com/online-test/9th-class-kpk-boards-general-science-chapter-1-eng-lish-medium-mcqs-test-home>



Pakistan International School Jeddah
Senior Girls Section (2023-24)



Education Class 9th Summer Vacation Task

Prepared by Ms Tauseef

Short Questions

1. Write down the definition of Aristotle.
2. Define education according to different thinkers.
3. What is the Islamic concept of education?
4. What is the difference between knowledge and education?
5. How many kinds of Education are there? Write their name.
6. What is meant by reconstruction of culture?
7. Enlist the basic functions of education.
8. Why is there a need for reconstruction of civilization and Culture?
9. Write any three demerits of blindly following the cultural heritage.
10. State specific features of Pakistani culture.

1. ارسطو نے تعلیم کی کیا تعریف کی ہے؟
2. مختلف مفکرین کے مطابق تعلیم کی وضاحت کریں۔
3. تعلیم کا اسلامی تصور کیا ہے؟
4. علم اور تعلیم میں کیا فرق ہے
5. امام غزالی رحم اللہ علیہ نے تعلیم کے حصول کے بارے میں کیا کہا ہے؟
6. ثقافت کی تعمیر نو سے کیا مراد ہے؟
7. تعلیم کے بنیادی وظائف کون سے ہیں نام لکھیں۔
8. تہذیب و ثقافت کی تعمیر نو کی ضرورت کیوں ہے؟
9. تہذیبی ورثے کی بے جا تقلید کے تین نقصانات لکھیں
10. پاکستانی ثقافت کی چیدہ چیدہ خصوصیات بیان کریں۔

Long Question

Q:- Elaborate the fulfilment of individual needs.

Q2: Highlight the types of education.

Q3: Describe general concept of education.

Q4: Explain scope of education in detail.

Q5: State the functions of education.

1. - فرد کی بنیادی ضروریات کی تکمیل سے کیا مراد ہے ؟ تفصیلاً جائزہ لیں۔
2. تعلیم کی مختلف اقسام کو تفصیلاً بیان کریں ۔
3. عمومی تصور تعلیم پر تفصیلی نوٹ تحریر کریں۔
4. تعلیم کے دائرہ کار پر مفصل نوٹ تحریر کریں ۔
5. تعلیم کے وظائف کا جائزہ لیں ۔

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://www.liveworksheets.com/8-kl334877ob>

Have a wonderful vacations .Allah bless you all.



Pakistan International School Jeddah

Senior Section

Session 2023-2024

Grade: 9 Subject: English

Prepared by Ms Noreen Farooq



Name: _____

Section: _____

Subject: English

Short Questions:

- Q1. Differentiate between phrase and clause with examples.
- Q2 Explain the Kinds of sentences structure wise and meaning wise.
- Q3. Define between Transitive and Intransitive Verb with examples.
- Q4. Identify the poetic devices used in the poem “Abu Ben Adhem”
- Q5. Define Relative Pronoun and explain what is antecedent with examples.
- Q6. Differentiate between fiction and non-fiction.
- Q7. How many clauses does a conditional sentence have?
- Q8. Write down at least two uses of Comma & Quotation Marks.
- Q9. Differentiate between Participle & Gerund with examples.
- Q10. . Define Simile, Metaphor, Personification & alliteration with examples.

Long Questions:

- Q1. Write down the central idea of the poem “Hope is the thing with Feathers”.
- Q 2. Write an email to the Director of the Federal Board to provide solution key of the recently held SSC exams .
- Q3. Describe a visit to a place of historical importance.
- Q 4. Write a paragraph on the Most Memorable Day of Your Life in 50 words.
- Q5. Write an application to the Vice Principal for issuance of books from the library.

NOTE: Please login to the following website for concept checking of i. phrase and clause ii. Dependent and independent clause SHARE the image of your report with your teacher

<https://www.khanacademy.org/humanities/grammar/syntax-sentences-and-clauses/phrases-and-clauses/e/introduction-to-phrases-and-clauses>

<https://www.khanacademy.org/humanities/grammar/syntax-sentences-and-clauses/phrases-and-clauses/e/dependent-and-independent-clauses>



Hoping your summer includes lots of family time, nourishment of mind & soul ,laughter, and fabulous memories.



Pakistan International School Al-Azizia , Jeddah



**GRADE:
XI COMPUTER**

Pakistan International School Jeddah

Summer Vacation Homework

Computer Science

Grade 9

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.

Write short answers of following questions.

Q1. Differentiate between Hard copy and soft copy.

Q2. Explain one example of cloud computing in detail?

Q3. Write a note on hybrid computer in Daily life.

Q4. Tell four uses of computer in education.

Q5. Briefly explain any two input devices in your daily life.

Q6. Briefly explain any two storage devices.

Q7. Explain the use of ALU and CU.

Q8. Describe cache memory and draw its diagram.

Q9. Write steps to insert any equation.

Q10. Write three uses of Urdu Inpage.

Write long answers of following questions.

Q1. Write down four characteristics of first and second generation of computer.

Q2. Explain the following careers of computer science

Programmer , network engineer, hardware engineer, software engineer.

Q3. Briefly explain any two output devices.

Q4. Explain the role or use of computers in following

1. Print media
2. Electronic Media

Q5. Describe the types of application software.

Instructions for Online Task

To make studies more interesting links of MCQs are added below. First make login on website and 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/join/quiz/5f5082bb97bd2e001be38c7a/start?studentShare=true>

<https://quizizz.com/join/quiz/624c0b7c51d0b4001ee671f6/start?studentShare=true>

<https://quizizz.com/join/quiz/6144aebacd2038001d558cb2/start?studentShare=true>

<https://quizizz.com/join/quiz/5e2750e264b8ed001bc9d4d6/start?studentShare=true>

<https://quizizz.com/join/quiz/5bec87b6499b99001a789a8a/start?studentShare=true>

<https://quizizz.com/join/quiz/6028b36ee0d569001b0e6f56/start?studentShare=true>

<https://quizizz.com/join/quiz/5c41d9dbe5b24d001b0d2313/start?studentShare=true>

Happy Summer Vacation

Prepared by: Syeda Shafaq



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

Summer Vacation Home Work

Class IX

Subject: Home Economics
Najia Meraj

Teacher: Mrs.

Short Question

- 1) Define Home Economics.
- 2) Discuss aims of Home Economics.
- 3) List different fields of Home Economics.
- 4) Define food.
- 5) What is nutrition?
- 6) List basic nutrients.
- 7) List three basic things food do to our body.
- 8) What are the effects of excess of carbohydrates body?
- 9) List the natural sources of proteins.
- 10) What is meant by essential and non-essential amino acids?

Project

Make a project by using any recycled material

<https://www.youtube.com/watch?v=Mh0U0Q9sP8o>

<https://www.youtube.com/watch?v=8zp1fHKJb8>



Pakistan International School Jeddah

Senior Section

Session 2023-2024

Grade: 9 Subject: Physics

Prepared by Ms Aiman Zaib



Q. Answer the following questions briefly.

1. An airplane accelerates down a runway at 3.20 m/s^2 for 32.8 s until it finally lifts off the ground. Determine the distance traveled before takeoff.

2. Is it possible to accelerate an object without speeding it up or slowing it down?

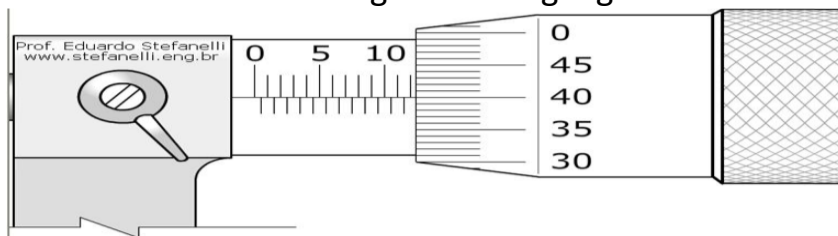
3. Write the number in power of ten and choose prefix of the following:

- a. The radius of hydrogen atom is about 0.00000000005 m.
- b. The age of Earth is about 14330000000000000 s.

4. Suppose you throw a small metallic ball and a feather from some certain height. Discuss their motion due to gravity :

- a. In the presence of air
- b. In vacume

5. Determine the reading on screw gauge :

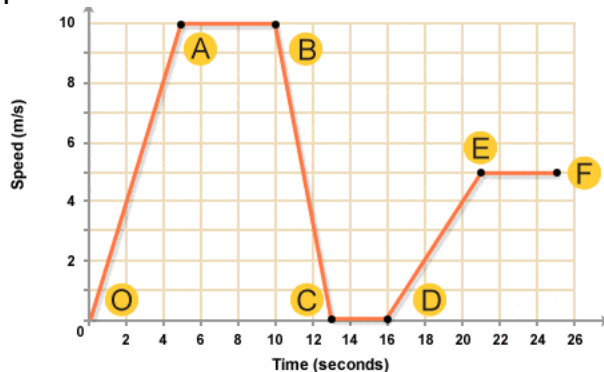


6. Determine the type of motion in front of each movement:

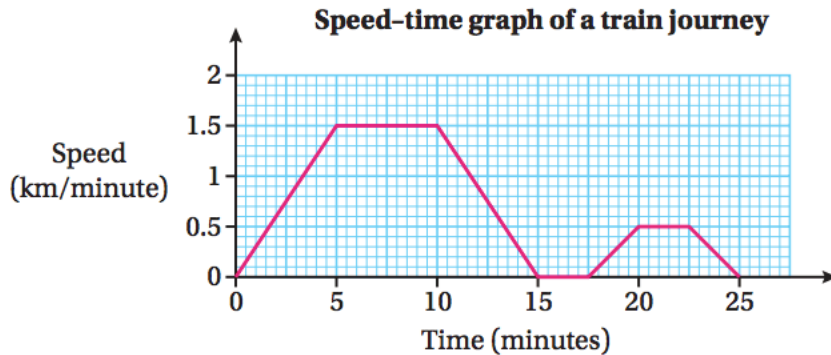
- I. The moving skin of a drum _____.
- II. Molecules of gas _____.
- III. The bob of swinging pendulum _____.
- IV. The prongs of a sounding tuning fork _____.

7. Sam runs 300m to Andy's house, turns around, and runs 300m back home. Calculate the Bill's displacement.

8. A body is moving with uniform velocity, what is happening in this graph from points A to B?



9. A freely falling object speeds up, describe what is happening to its acceleration – does it increase, decrease or stay the same?
10. How far does the train travel in first 10 minutes?



Q. Answer the following questions in detail.

1. Discuss what conditions should be kept in mind while deriving equations of motion. Also derive the equation $2as = v_f^2 - v_i^2$.
2. a. Define freely falling bodies and gravitational acceleration.
 b. Write sign conventions for gravitational acceleration .
 c. Write 3 equations of motion of freely falling bodies.
3. Differentiate between mass and weight. (write at least 5 points).
4. Mention real practical examples of law of conservation of momentum. Also Explain law of conservation of momentum.
5. Define the force of friction, discuss its types, mention advantages and disadvantages of friction.

Dear students, kindly follow the links if you need any help in any question.

<https://www.youtube.com/watch?v=trdbaV4TaAo>

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

<https://www.youtube.com/watch?v=QH5UoTDwqVM&t=79s>

<https://www.youtube.com/watch?v=b1Zd8hUWpw0>

<https://www.youtube.com/watch?v=80gApHJd3iY>





پاکستان انٹرنیشنل سکول جدہ

2023-24 موسم گرما کی تعطیلات کا کام جماعت نہم

درج ذیل سوالوں کے مختصر جواب دیں۔

- 1- حمد کی تعریف لکھیں
- 2- نعت کسے کہتے ہیں؟
- 3- قافیہ کی تعریف لکھیں اور شعر لکھ کر قافیہ خط کشیدہ کریں۔
- 4- ردیف کسے کہتے ہیں؟ شعر لکھ کر ردیف خط کشیدہ کریں۔
- 5- جملہ اسمیہ کی تعریف لکھیں۔ ایک مثال کے ساتھ ترکیب نحوی کریں۔
- 6- مرثیہ کیسی نظم کو کہتے ہیں؟
- 7- ڈرامہ کسے کہتے ہیں؟
- 8- غزل کس تعریف لکھیں۔
- 9- ناول کی تعریف لکھیں۔
- 10- افسانہ کی تعریف کریں۔
- 11- محاورے کی تعریف کریں۔ اور کوئی سے دو محاوروں کے جملے بنائیں۔
- 12- خط کیا ہوتا ہے؟ تعریف کریں اور اہم حصوں کے نام لکھیں۔
- 13- مضمون کی تعریف کریں اور اس کے اہم حصوں اور اقسام کے نام لکھیں۔
- 14- مخمس کسے کہتے ہیں۔ تعریف لکھیں۔
- 15- شعر کی تعریف لکھیں اور علامہ اقبال کے اشعار میں سے کوئی سے دو شعر لکھیں۔
- 16- لوک کہانی کسے کہتے ہیں؟
- 17- جملہ فعلیہ کی تعریف لکھیں۔ ایک مثال کے ساتھ ترکیب نحوی کریں۔

18- مختلف انداز بیان میں سے کوئی سے تین کی مثالوں سے وضاحت کریں۔

19- تشبیہ کی تعریف لکھیں اور دو مثالوں سے وضاحت کریں۔

20- استعارہ کی تعریف لکھیں اور دو مثالوں سے وضاحت کریں۔

درج ذیل سوالات کا تفصیل سے جواب لکھیں

1- موسم برسات کی آمد کے موقع پر گندہ پانی کھڑا ہونے سے بیماریاں پھیلنے کے خطرے سے آگاہی کے لیے اخبار کے مدیر کے نام خط لکھیں۔

2- اپنی پسند کی کوئی آپ بیتی تحریر کریں۔

3- دو دوستوں کے درمیان امتحان کی تیاری کے بارے میں مکالمہ لکھیں۔

4- اپنے پسند کے عنوان پر کوئی بھی روداد تحریر کریں۔

نوٹ: لائیو ورک شیٹ قواعد و انشا کو حل کریں اور حل شدہ ورک شیٹ کا پرنٹ فائلز میں لگا دیں۔

<https://www.liveworksheets.com/na2827281yq>

Happy Summer Vacation!!!





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

Assignment of Summer Vacations
Class XI

Subject: General Mathematics
Mrs.Munazza Manzoor
Short Question Answer (10)

Teacher:

- Express the following percentages as fractions in their lowest form
(i) 56% (ii) $37\frac{1}{2}\%$
- Find CP, when (i) SP=Rs.100 ,profit= $33\frac{1}{2}\%$ (ii) SP=Rs.2640, Loss=8%
- A family has 12 pets of which 6 are cats, 2 are dogs and the rest are birds. Find the ratio of the number of: (i)birds to dogs (ii) birds to pets
- Distribute Rs. 720 as profit amongst three people so that their shares are in the ratio 3:4:5
- A shopkeeper gains a profit of 7% by selling a dinner set for Rs.3852.If he sells it for Rs.4050,find profit percentage 15.
- The selling price of 12 articles is equal to the cost price of 15 articles. Find profit percentage
- Haris purchased a car for Rs.248000 and spent Rs.12000 on its denting and painting. He sold that at a profit of 5 %. What did the customer pay to Haris?
- If $A=\{1,3,5\}$ and $B=\{X,Y,Z\}$ and $g=\{(1,X),(3,Y),(5,Z)\}$ is a binary relation from $A \times B$, then show that 'g' is A onto B function.
- Waseem invests Rs.5000 at $5\frac{1}{4}\%$ per annum profit compounded annually. Find the amount at the end of the third year.
- Asghar left a property of worth Rs.4,80000.He left behind a widow, three sons and four daughters. Calculate the share of each

Long question. 05

Q#1: If $U=\{1,2,3,4,5,6,7,8,9\}$, $A=\{2,3,6,8\}$ and $B=\{1,3,6,9\}$ then verify that (I) $(A \cup B)' = A' \cap B'$ (II) $(A \cap B)' = A' \cup B'$

Q#2: Rizwan purchases a car for 15000 Riyals. Delivery was to be made after three months and payment is also to be made at the time of delivery. At the time of contract, the rate was 1 Riyal = Rs.22.400, while at the time of delivery the rate was 1 Riyal = Rs. 22.0827. Determine the loss due to change in rate

Q#3: . If the stay of 12 men for 28 days in a hotel costs Rs. 6720 . Find the cost for the stay of 8 men for 14 days in the hotel.

Q#4: Calculate the amount Of Zakat on 10 tola gold and 40 tola silver, if the rate Of gold is Rs.40,000 per tola and the rate Of silver is Rs. 5000 per tola

Q#5: A shopkeeper borrowed Rs.3540 from ABC Bank at $10\frac{3}{4}\%$ and lent the Whole amount at $11\frac{1}{2}\%$ on the same day, what would be gained from this after 3 years and 4 months.

NOTE:

Login to the following link

1. <https://www.khanacademy.org/math/in-in-class-7th-math-cbse/x939d838e80cf9307:comparing-quantities/x939d838e80cf9307:profit-or-loss-as-a-percentage/e/profit-and-loss-percentages>
2. <https://www.khanacademy.org/math/in-class-9-math-foundation/x6e1f683b39f990be:introduction-to-graphs>
3. <https://www.khanacademy.org/math/in-in-grade-11-ncert/x79978c5cf3a8f108:sets/x79978c5cf3a8f108:applications-of-sets/e/practical-problems-on-union-and-intersection-of-sets-basic>





Pakistan International School Jeddah
Summer Vacation Home Work 2023
E Mathematics IX

Prepared by: Ms. Tahira Qadir

Total Marks :100

Q#1. Attempt all Short Questions. (Marks :10*4=40)

- i. If $A = \begin{bmatrix} -4 & 2 \\ 3 & -7 \end{bmatrix}$ then
- Find $|A|$
 - Find $\text{Adj } A$
 - Find A^{-1}
 - Is this a Singular Matrix?
- ii. If $3 \begin{bmatrix} x & y \\ z & w \end{bmatrix} = \begin{bmatrix} x & 6 \\ -1 & 2w \end{bmatrix} + \begin{bmatrix} 4 & x+y \\ 3w+3 & 3 \end{bmatrix}$, then find w, x, y and z .
- iii. **Divide the first complex number by the second.**
 $Z_1 = 2 + i, Z_2 = 5 - i$
- iv. Prove that
$$\left(\frac{4^5 \cdot 64^3 \cdot 2^3}{8^5 \cdot (128)^2} \right)^{\frac{1}{2}} = 2$$
- v. Simplify
$$\frac{2^{p+1} \cdot 3^{2p-q} \cdot 5^{p+q} \cdot 6^q}{6^p \cdot 10^{q+2} \cdot 15^p}$$
- vi. If $A = \begin{bmatrix} 1 & 0 \\ 2 & 3 \end{bmatrix}$
- Find A^t
 - Find $A - A^t$
 - Also check if $A - A^t$ is Skew-Symmetric.
- vii. Check whether the points $P(3, 3), Q(8, 3)$ and $R(3, 12)$ are collinear or not.
- viii. Find values of x and y if $(1 + i)^3(x + yi) = (4 + 5i)$
- ix. The three sides of a triangle are of measure 8, x and 17 respectively. For what value of x will it become base of a right-angled triangle?

- x. Find 'b' such that the points $A(2, b)$, $B(5, 5)$ and $C(-6, 0)$ are vertices of a right angled triangle ABC with $m\angle BAC = 90^\circ$.

Long Question (Marks:5*8=40)

Q#2: In a right-angled triangle, the square of the length of hypotenuse is equal to the sum of squares of the lengths of the other two sides. Prove it.

Q#3. Let the vertices of a triangle are $A(-3,2)$, $B(5,8)$ and $C(5,2)$. If M_1, M_2 and M_3 are the mid points of the line segments AB , BC and CA respectively of a triangle, find the co-ordinates of M_1, M_2 and M_3 . Also determine the type of the triangle $M_1M_2M_3$.

Q#4. Four chairs and two tables cost Rs.2500, while six chairs and five tables cost Rs.6000. Find the cost of one chair and one table separately. (Use Cramer's Rule by forming pair of Linear equations)

Q#5. If $A = \begin{bmatrix} 1 & 2 \\ 1 & 3 \end{bmatrix}$ and $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ then

- a. Find $(\det A)$ and $(\text{adj}A)$
- b. Show that $A(\text{adj}A) = (\text{adj}A)A = (\det A)I$

Q#6. If $A = \begin{bmatrix} 1 & 3 \\ 2 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 5 & 7 \\ 6 & 8 \end{bmatrix}$ then verify the following:
(a) $(AB)^t = B^t \cdot A^t$ (b) $A \cdot A^{-1} = A^{-1} \cdot A$

Link for the quiz:

Students will make login in this website and after completing all the tasks will share the image of her progress in which login and progress of students must be visible.

https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-geometry/cc-8th-pythagorean-theorem/e/pythagorean_theorem_1

Activity: Marks=20

Form a spin wheel for algebraic identities as explained in the class.

