**Winter Vacations Home Work**

**New Class 8th (Biology)**

Q1. Draw the labeled diagram of plant and animal cell.

Q2. Define at least 12 branches of biology.

Q3. Draw a linkage chart connecting different organs with the relative organ systems. With each system write its organs in sequence.
   a. Digestive System
   b. Circulatory System
   c. Respiratory System
   d. Nervous System

Q4. Describe the ways in which society benefit from biodiversity.

Q5. Identify and pose meaningful, answerable 10 scientific questions about any problem that is prevailing in society?

Q6. Analyze the impact of humans on ecosystem. Also associate it with human activities and pollution.

Q7. Assess the capabilities of prokaryotic and eukaryotic cells owing to the presence or absence of nucleus and mitochondria.

Q8. Briefly describe the concept of conservation of Biodiversity and steps taken for conservation of Biodiversity.

Q9. Define the following terms.

<table>
<thead>
<tr>
<th>Cell</th>
<th>Community</th>
<th>Prokaryote</th>
<th>Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microorganisms</td>
<td>Inheritance</td>
<td>Genetics</td>
<td>Fossil</td>
</tr>
<tr>
<td>Bioinformatics</td>
<td>Biological method</td>
<td>Biodiversity</td>
<td>Flora</td>
</tr>
<tr>
<td>Soil Erosion</td>
<td>Tissue</td>
<td>Species</td>
<td>Fauna</td>
</tr>
<tr>
<td>Immunology</td>
<td>Histology</td>
<td>Deforestation</td>
<td>Taxon</td>
</tr>
</tbody>
</table>

**Winter vacation Home work for class 8th**

**Chemistry**

Q1 Atom, Element, Compound, Mixture, Atomic number, Mass number, Empirical formula, Molecular formula, Molecular mass, Formula mass, Mole, Avogadro’s Number,

Q2 Solve numerical on basis of, mole – mass calculation
  Mole – number calculation.

Q3 Write down symbols, atomic number and mass number of 1	extsuperscript{st} to 20	extsuperscript{th} element of periodic table and memorize them.

Q4 Find out number of proton, neutron, and electron in following element
  $^{208}\text{Pb}_{82}$, $^{184}\text{W}_{74}$, $^{35}\text{Cl}_{17}$, $^{39}\text{K}_{19}$, $^{209}\text{Po}_{84}$

Q5 Draw the Boar’s atomic model of following element.
  Carbon (Atomic No 6, Mass No.12)
  Chlorine (Atomic No 17, Mass No 35)
  Sodium (Atomic No 11, Mass No 23)
  Potassium (Atomic No 19 Mass No 39)
  Sulphur (Atomic No 16, Mass No 32)

Q. 7 How compounds are formed? Give three reactions showing compounds formation.

Q. 8 Write down the main points of Dalton’s atomic theory.

Q. 9 Give at least 10 application of isotopes?

Q.10 Calculate the percentage composition of H2SO4 KClO3

Q.11 Find out at least five example of homogenous and heterogeneous mixture from your daily life.

Q.12 Calculate the molecular mass of following

KClO3 (NH4)2CO3 NaHCO3

Q.13 Write down the defects of Rutherford atomic Model.

Q.14 What are the main points of Bohr’s atomic theory?

Class: 8th

Winter Vacations

Sub: English

Home Work

1. Write ten sentences of English in each tense and translate these into Urdu.

2. Write the definitions of (8) eight parts of speech along with examples.

3. Define at least five figures of speech and write their examples.

4. Write paragraph on following topics.

   I. Visit to museum.
   II. Journey by a train
   III. A scene at bazaar
   IV. Save tree save life
   V. Importance of discipline

5. Write letters: (Informal)

   I. To brother asking about his health.
   II. To mother informing about your studies.
   III. To father asking for pocket money.

6. Read your favorite story of Charles Dickens and Write a detail note on your favourite character

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Winter Vacation Assignment, 2019/20

Class: 8th Physics

A. Question Answers

Q1. Define the following

- Science
- Matter and energy
- Physics and its applications in daily life
- Distance and Displacement
- Speed and velocity
- Acceleration and its types

Q2. Write down the importance of physics in our daily life. (You can take help from internet)

Q3. Define different branches of Physics.

Q4. What is a stop watch? Differentiate between mechanical and digital stopwatch.

Q5. Write down the tables of
Base quantities, their SI unit
Derived quantities, their SI Unit with Symbols.

Q6. Draw neat and labeled diagrams of the following
- Meter rule
- Vernier calipers
- Screw Gauge
- Stop watch
- Measuring cylinder

Q7. Differentiate between Rest and Motion. Explain different types of motion with the help of examples.

Q8. State and explain.
- Newton’s first law of motion.
- Newton’s second law of motion.
- Newton’s third law of motion.

Q9.a. What is the difference between physical and non-physical quantities? Give examples.
   b. Explain types of motion and give examples from everyday life.
   c. Differentiate between the following:
      i. distance and displacement  ii. Speed and velocity

Q10. Define Force, Inertia and Momentum.
Q11. Relation between force and Momentum.

Q12. State and Explain law of conservation of Momentum. Write down its applications from daily life.

Q13. What do you know about friction? Write down its advantages and disadvantages from daily life. Also enlist the methods to reduce friction.

Q14. Write down the methods to reduce friction.

Q15. What is centripetal force? Write down the importance of centripetal force.

Q16. Write the principle of the following
   - Banking of Roads.
   - Washing Machine dryer.
   - Cream separator.

B. Multimedia
Download the videos of the following experiments from YouTube
- Vernier calipers
- Screw gauge
- Measuring cylinder
- Meter rule
- Stop watch.

With the help of downloaded videos, write down a note (one page) on each of the above instrument.

C. Presentations
Make presentations on the following topics.
   - Importance of physics in the field of medical and engineering.
Role of measuring instruments in daily life.
Impact of friction on the motion of bodies.
Role of inertia and Momentum in the motion of objects.

Home Assignment for Winter Vacations Social Studies
Class 8th Middle Section Session: 2019
Q.1 Nelson Mandela was a truly outstanding leader of the 20th-21st century. Find out more about his life and achievements. Make a display chart for your class.

Q.2 What qualities made Ataturk a successful leader for Turkey?

Q.3 From the Internet and other reference sources, look up more detail about Ruth Fao’s contribution to eradicating leprosy is Pakistan. Make posters as a Class project.

Q.4 Name some of the humanitarian organization in Pakistan and write briefly about their work.

Q.4 How did the travels and discoveries of Marco Polo, Columbus, and Vasco da Gama affect the Europeans?

Q.5 Find out more about Christopher Columbus, his life, and his voyages. Make a timeline, with illustrations.

Q.6 What did people learn from Livingstone’s travels in Africa?

Q.7 How has the jet engine revolutionized aircraft and air transport?

Q.8 Describe the term Stalinization.

Q.9 What is asylum, Give reasons why people seek asylum?

Q.10 Explain why people become refugees in their own country?

Q.11 What is migration? Give some examples of external and internal migration?

Q.12 Collect some historical pictures of important political leaders of Independence Movement of Pakistan?

Q.13 Purchase and read any book about the separation of East Pakistan and write a book review?

Winter vacation home work 8th class
مضمون : اردو
ا.اردو کی درسی کتاب کو مکمل ہو ہاں بیٹے مشقوں میں شامل گرامر (جملے بنانے،واحد جمع،الفاظ متضاد،مترادف الفاظ)
ب.دیکھ کر کہ نہیں
c.مکالمہ
1.تحریک پاکستان کی موضوع پر دو دستون کے درمیان مکالمہ لکھیں.
2.مہنگائی پر درمیان مکالمہ لکھیں.
3.رواداد:
4.سردیوں کی تعطیلات کی دوران اپنا کسی سفر کی روداد لکھیں.
Tasks: Question 1, 2, 3, 4 and 5 are only for practice whereas Question 6 and 7 will be collected as winter vacation’s assignment.

COMPUTER ETHICS
On the Insert tab, the galleries include items that are designed to coordinate with the overall look of your document. You can use these galleries to insert tables, headers, footers, lists, cover pages, and other document building blocks. When you create pictures, charts, or diagrams, they also coordinate with your current document look.

Computer should not be used to harm other people.

Q1. Type the above text and apply the commands given at the end.
   a) Center the title and make it bold
   b) Apply font size 16 to the title
   c) Justify the paragraph
   d) Underline and bold the words “Computer Ethics” in the paragraph
   e) Apply italics and bold to the words “computer technology”
   f) Apply bullets to the last three lines

Q2. Create weekly timetable of your class in word and give title to it using WordArt.

Q3. Create the following worksheet in excel and calculate sum and average using formulas.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Expenses</th>
<th>Jan</th>
<th>Fab</th>
<th>Mar</th>
<th>Total</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Salary</td>
<td>87000</td>
<td>102400</td>
<td>1138900</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Rent</td>
<td>2500</td>
<td>2500</td>
<td>2500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Utilities</td>
<td>3250</td>
<td>3500</td>
<td>3080</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Transport</td>
<td>7830</td>
<td>6885</td>
<td>8940</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Miscellaneous</td>
<td>4500</td>
<td>6708</td>
<td>7740</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Q4. Create the following worksheet in excel and enter marks in the subject columns in the range 0 to 75. Restrict data entries in the subject columns to the specified range using data validation command.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Student Name</th>
<th>Mathematics</th>
<th>Physics</th>
<th>Computer</th>
<th>Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Abrar Nabi</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Mumtaz Akbar</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Muhammad Bilal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Javed Akhtar</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Afzal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Muslim Khan</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Q5. Write a leave application in Urdu using the Inpage Urdu Editor.
Q6. Buy Spider Magazine of Month December and January. Read it completely and write the summary of the article you like the most in 300 words.

Q7. Bring one computer project idea with complete description, diagrams, components required and with the budget needed.

Note:
A comprehensive test will be conducted from the winter vacations’ assignment on the very first day of new session. Come well prepared for the test.

**Class-9th (New)**

1. سورة الانفال (آيت 1 تا 48) کے الفاظ معنی اور ترجمہ یاد کریں۔
2. احادیث (1 تا 6) کا ترجمہ اور تشریح زبانی یاد کریں۔
3. چہ کلمات، نماز پنجگانہ کے کلمات، نماز جنازہ کے کلمات مکمل یاد کرکے آئین۔
4. وضو کے فرائض و سنن، غسل کے فرائض و سنن اور نماز کے فرائض، واجبات اور سنن زبانی یاد کریں چہں یاد کریں کے بعد زبانی امتحان لیا جائے گا۔