Q.1 Give short answers of the following questions.

1. Briefly describe the contributions of RONALD ROSS in studying the problem of malaria?
2. Differentiate between the deductive reasoning and inductive reasoning?
3. Write down the scientific names of A) HOUSE CROW B) ONION C) FROG.
4. What is the significance of binomial nomenclature?
5. What are plasmodesmata, homologous chromosome, and cytoskeleton?
6. Differentiate between primary and secondary growth?
7. Define osmosis, facilitated diffusion, active transport?
8. What do you know about Go phase of cell cycle?
9. Differentiate between disjunction and non-disjunction?
10. What is meant by denaturation of enzyme?
11. What do you mean by saturation op active site?
12. What do you know about energy budget?
13. What is meant by pigment, ATP?
14. How will you differentiate between saturated and unsaturated fatty acids?
15. What is appendix and appendicitis?
16. Define reflex action? Is it voluntary action?
17. What are deficiency disorders of iron and calcium?
18. What are MARASMUS, ANEMIA, and GOITER?
19. Write down the symptoms of gastric ulcer?
20. What is the difference between emulsification and mastication?
21. What is source and sink?
22. Left ventricle is thicker than right one why?
23. What is angina pectoris? What are its symptoms?
24. What is meant by universal donor? And universal acceptor?
25. Transpiration is necessary evil? Justify the statement?

SECTION C

Q.2 DRAW AND LABEL THE FOLLOWING DIAGRAMS.
1. Mitochondria and chloroplast.
2. Plant and animal tissue.
4. Z-scheme
5. Calvin cycle
6. Human digestive system
7. Structure of villus
8. Human heart
9. Arterial and venous system.

Subject: Chemistry

Solve all these questions on a separate register and also learn these.
1. Explain The Chemical Reaction Used in The Breathing Apparatus?.
2. What is the importance OF Silicon in Electronics ?
3. Why Alkali Metals a not Used For making coins?.
4. Why is Na (Sodium ) a Soft metal and Iron a hard metal?.
5. Differentiate b/w Heavy water and ordinary Water.?
6. Give main Points of The “Dalton’s Atomic Theory”?
7. Give main Points of the Kinetic Molecular Theory .
8. Explain Mendeleev’s Classification?
9. What is Newland law of octane?.
10. Write a Note On Carbon Dating.?
11. Explain the isotopes of Cl , C and Uranium.?
12. How is the purity of Gold Expressed. What is the percentage of Gold in the Coinage Gold.?
13. What is Corrosion? Explain, the corrision of iron With Reaction.?
14. Why does Silver tarnish ( becomes black ) in air?
15. Which reaction occurs in following ?
1. Mothballs slowly disappear
2. A cold Windshield becomes covered with Ice when stuck by rain drops?
3. Why does H₂O Level in an aquarium decrease slowly even though the tank does not leak?
4. Illustrate types of attractive forces you expect between the molecules of HCl and HF?
5. Express pressure of 400mm Hg in kPa?
7. Solve Numerical of Chapter No. 1, 5, and 6?
8. Draw diagrams of Down’s cell, Drycell, Nelson’s cell and Galvanic cell?
9. Draw Bohr’s model for the following elements:
   a. K   b. Ca   c. Mg   d. Si
10. Search out the chemical formula of the following compounds?

Reference:
1. David E. Goldberg Fundamentals of Chemistry
2. B. Earl and LDR Welford Introduction to Advanced Chemistry
3. Addison Wesley, Chemistry
4. Raymond Chang, Essential Chemistry
5. Text Book of Chemistry

Computer Science 9th

Tasks:
Q1. Solve all the MCQs from MCQs’ booklet.
Q2. Go through all the chapters in detail and try not to leave a single topic for later.
Q3. Attempt all Model Papers which are attached as Appendix-I.
Q4. Attempt Past Papers of session 2019. See Appendix-II

Assignment Submission Instructions:
1. Use Blue and Black ink pen only, for attempting past and model papers.
2. Take a separate register for computer tasks or you may use your previous computer’s register.
3. Every task should be written neat and clean with proper margins drawn on sides.
4. Vacations’ work will be collected on the very first day of the winter camp.
5. Plagiarism and summarized answers are strictly not allowed.

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

Subject: English  Class: 9th

<table>
<thead>
<tr>
<th>S.NO</th>
<th>Assignment</th>
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<td>1.</td>
<td>Solving past board papers for the years 2016 to 2019</td>
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Mathematics  Class 9th

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<th>Chapters</th>
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<td>Properties of Real Numbers  Laws of Exponents  Complex Number  Basic Operations on Complex Numbers  Exercise 2.6, Q. 6</td>
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<td>11</td>
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<td>Exercise No:17.2</td>
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Physics
Subject: Physics
Class: 9th
❖ Write answers of all margin line questions.
❖ Draw labeled diagram of vernier calipers and write down its working in detail.
❖ Draw labeled diagram of screw guage and write down its working in detail.
❖ Discuss the graphical analysis of motion.
❖ Solve chapter wise all solved examples and numerical problems
❖ Enlist all the formulae and constants given in text book.
❖ Enlist all the physical quantities with symbols and units.
❖ Derive graphically all three equations of motion.
❖ Derive relation for mass of earth.
❖ Draw the graph showing the relation between time and temperature of ice into water
❖ Derive relation for linear and volumetric thermal expansion.
❖ Derive formula for orbital speed of satellite.
❖ State and explain Archimedes principle
❖ Derive formula for thermal conductivity.
❖ Derive equation for hydraulic lift.

NOTE. Use extra register for assignment

Class: 9th
Subject: Urdu
❖ بورڈ پیپر کے مطابق دہرائی کریں۔
❖ ۸۱۰۲ کا بورڈ پیپر مکمل حل کر کے لانا یا۔

Islamiyat (2020)
Class - ۹th (Old)
1. سورة الانفال کا مکمل ترجمہ ، مشچون میں درج تمام الفاظ ومعانی،مختصر سوالات اور تفصیلی مختصر الاختیاری سوالات زبانی یاد کریں۔
2. احادیث (تنا) 10 ترجمہ وتشریح زبانی یاد کریں۔
3. موضوعاتی مطالعہ کے تمام مختصر اور تفصیلی سوالات لکھ کر لائین۔
4. سالف،تین سالہ پرچم جات(2016،2017،2018) مکمل طور پر حل کر کے لائین۔