Chemistry: Home Assignment (Winter Vacation)
Class: PSC
1. Search out and solve all the numerical P2 of both summer & winter sessions of last 10 years papers on your note books
2. Solve all the questions of titrations on your note books from last 10 years ATP.
3. Do all the questions of salt analysis from your P4 of last 10 years papers of ATP on note books.
4. Explain following reactions & terms with the help of examples & balanced equations
   a. Redox reactions
   b. Neutralization
   c. Subs titration
   d. Hydro lyses
   e. Hydrogenation
   f. Addition
   g. Polymerization
   h. Isomerism
   i. Titration
   j. Distillation
   k. Allotropy

WINTER VACATION HOME ASSIGNMENT
Subject: ENGLISH Class: PSC
Q2. Write an article on any five of the following:
   i. Personality Development and Peer Pressure.
   ii. Awareness of Preserving the Endangered Species.
   iii. Our Youth and Role of Media.
   iv. Mess System of Burn Hall.
   v. Role of Social Media in Studies.
   vi. Interest of Students in Extra-Curricular Activities.
   vii. Nepotism – A Sign of Progress in Today’s World
Q3. Attempt the Past Papers of the Years 2016 to 2019.

Winter Vacation Assignments Islamiyat (2020)

Class - PSC (New)
1. Revise Ahadith (1 to 16)

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<th>S/No</th>
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Note: Solve all these questions on separate register and submit after vacations.

Winter Vacations Assignment, 2019-20
Class: PSC      Subject: History

- Preparation of Chapter# 1-10 from *The History and Culture of Pakistan* by Nigel Kelly,
- Preparation of the topics included in the Third Section of *The History and Culture of Pakistan* by Nigel Kelly, from the following websites and Books
  - [https://asiasociety.org/education/Pakistan-politics-history](https://asiasociety.org/education/Pakistan-politics-history)
➢ Attempt TEN Past papers i.e. June & October 2014, June & October 2015, June & October 2016, June & October 2017 and June & October 2018, on separate assignment sheets, without leaving any question from the paper on the basis of choice.

❖ Suggested books for further reading
➢ Trek To Pakistan by Ahmed Saeed and Kh Mansur Sarwar, pages 1-284
➢ Pakistan: A Modern History, by Ian Talbot, Pages 126-179.
➢ The Idea of Pakistan by Stephen P. Cohen pages 131-160
➢ The Political System of Pakistan by Khalid Bin Sayeed
➢ Pakistan: The Formative Phase 1857-1948. by Khalid Bin Sayeed

Home Work Assignment Winter Vacation 2019
Geography
Class: PSC

1. Explain the role of agriculture in the development of a country like Pakistan.
2. Explain human development? Why a Govt should spend more money than the mega projects?
3. How important is it for Pakistan to built small dams? Explain
4. Note: Solve the following Papers:
   a. Year 2015(June & November)
   b. Year 2016(June & November)
   c. Year 2017(June & November)
   d. Year 2018(June & November)

WINTER VACATIONS ASSIGNMENT – PHYSICS
CLASS PSC (New)

Note: The winter home assignment must be done on a separate notebook, except where told otherwise.

1. Write the definitions, statements, and sketch diagrams (where required) of all the topics.

   Chapter 13
   i. Waves ii. Types of waves iii. Characteristics of wave iv. Ripple tank
   v. Electromagnetic spectrum

   Chapter 14
   i. Reflection ii. Refraction iii. Laws of reflection and refraction iv. Types of reflection v. Total internal reflection vi. Image formation by plane mirror

   Chapter 15
   i. Lenses and their types, ii. Ray diagrams,
   iii. Image formation by concave and convex lens

   Chapter 16
   i. Longitudinal waves, Transverse waves, ii. Sound as longitudinal waves,
   iii. Characteristics of sound (Loudness, pitch and quality)

   Chapter 17
   i. Static electricity ii. Conductors and Insulators
iii. Laws of electrostatic

Chapter 18
i. Electric current and conventional current
ii. Potential difference and emf
iii. Electrical power
iv. Electrical energy
v. Electrical cost

Chapter 19
i. Series and parallel circuits, their consequences and formulae
ii. Relation of potential difference and current in series and parallel circuit

Chapter 20
i. Different effects of current
ii. Electricity dangers
iii. Safe use of electricity

Chapter 21
i. Magnetic materials
ii. Magnets
iii. Magnetic induction
iv. Theory of magnetism
v. Magnetic shielding
vi. Electromagnetics

Chapter 22
i. Force on a current carrying wire in magnetic field
ii. Force between two parallel current carrying wires
iii. Fleming’s left hand rule
iv. Movement of a charge inside the magnetic field
v. d.c motor

Chapter 23
i. Electromagnetic induction
ii. Faraday’s law
iii. Lenz’s law
iv. Fleming’s right hand rule
v. a.c generator
vi. Transformer

Chapter 24
i. Thermionic emission
ii. Cathode rays
iii. C.R.O
iv. Logic gates

Chapter 25
i. Radioactivity
ii. Half-life
iii. Radiocarbon
iv. Radioisotopes
v. Nuclear Fission
vi. Nuclear Fusion

2. Write the formulae of all the units from 13 – 25 on color pages.
3. Solve the Exercises of the following chapters:
   a. Chapter 13 – 23 (already taught in class).
   b. Chapter 24 – 25 (from PSC course).
4. Solve theory past papers (Topical) from years 2010 to 2019.
5. Solve ATP past papers from years 2010 to 2019.

Winter Vacation Home Work PSC