ACCELERATED LEARNING PROGRAMME (ALP)
ورکا کتاب کے سباقی: (مستثنین اور عربا کے قاری میں سے کوئی سوال ایکنے نیا ہوا کاہ)

ترجمہ (عثمان)☆ انظر پاکستان ☆ نظرے دو - دوکوئی میں سے بیاہیاں☆ متعلّق ☆ پتّل خور
☆ قاہرہ بنت عیسی (انظر)☆ حضرت موسیٰ (انظر)
☆ نجران انڈی (انظر)

اوردو امریکا (10-9):

(اف) مخصوص تاریخ (ستمبر 2003):
نرم - نرم ☆ عالم مجاہدین ☆ کتاب اعظم☆ یوم پاکستان دوہندرباہدی☆ مفتی کپنری☆
شریفی گورنی بھارتی زندگی☆ وقت کا پاندی

(ب) عظیم عمارات (ستمبر 1171) غرامت نمبر 124، غرامت نمبر 1، 6، 7، 8، 9، 10، 13، 15:
نرم - نرم☆ کیہیں قاتل - دیواں باہر قاتل☆ مختلف انسان - مختلف دوہندرباہدی☆ جملہ ہوئی☆ یوم غصرمن - سر بندگاہی☆ اسلام
نرم - نرم☆ کہکون کے وقت - دیوانہ بھی☆ یقین کیسے - بلند دوہنہ بھی☆ قائد اعظم - ممشہر، کارنا کا
نرم - نرم☆ اقتباس - عظیم کاہ.
Unit # 1: Hazrat Muhammad ﷺ as an Embodiment of Justice
Class work: Vocabulary (Exercise: C, D), Reading for Comprehension (Exercise: B, C), Grammar, Pronunciation Key, Oral Communication Skills, Writing Skills
Home work: Vocabulary (Exercise: A, B), Reading for Comprehension (Exercise: A)

Unit # 3: Try Again
Class work: Comprehension (Exercise: A, B, C, D), Grammar, Oral Communication Skills, Writing Skills,
Home work: Vocabulary

Unit # 4: First Aid
Class work: Comprehension (Exercise: B, C), Grammar, Oral Communication Skills, Writing Skills
Home work: Vocabulary, Comprehension (Exercise: A),

Unit # 6: Television vs. Newspaper
Class work: Reading Comprehension (Exercise: B, C), Grammar, Oral Communication Skills, Writing Skills
Home work: Vocabulary, Reading Comprehension (Exercise: A)

Unit # 8: Peace (Poem)
Class work: Vocabulary (Exercise: E), Reading Comprehension (Exercise: A, B), Grammar, Oral Communication Skills, Writing Skills
Home work: Vocabulary (Exercise: A, B, C, D),

Unit # 10: A World Without Books
Class work: Vocabulary, Grammar, Oral Communication, Writing Skills
Home work: Reading Comprehension

Unit # 13: Faithfulness
Class work: Vocabulary, Grammar, Oral Communication, Writing Skills
Home work: Reading Comprehension

(Grammar & Composition)

Essay Writing
Class work: Sports and Games, Libraries, Health, The Moon Soon
Home work: A Hockey Match, A True Muslim, Quaid-e-Azam Muhammad Ali Jinnah
Translation of (Urdu) Paragraphs into English
Classwork: (2), (6), (7), (8), (9), (10), (13), (16), (19), (23)
Homework: (24), (25), (28), (29), (31), (32), (33), (34), (37)
Direct and Indirect Speech
Classwork: Practice will be given.
Home work: Practice will be given.

Pair of Words:
Classwork: 1, 2, 3, 6, 8, 9, 10, 12, 13, 15, 17, 19, 20, 22, 24, 27, 28, 30, 32, 34
Homework: 36, 38, 39, 43, 45, 49, 51, 52, 54, 56, 58, 62, 63 65, 66, 71, 72, 75 & 78
UNIT - 1: Quadratic Equations
Class Work: Exercise:1.1,Q:1(iii),Q:2(ii), Q:3(v,ix),Exercise:1.2,Q:1(iii)
Exercise:1.3,Q:10,12, Exercise:1.4, Q:1,9
Home Work: Exercise:1.1,Q:1(i,iv),Q:2(iv,v),
Q:3(i,v),Exercise:1.2,Q:1(i,vi,vi,vi),Exercise:1.3,Q:2,7,9,10,14,
Exercise:1.4,Q:3,8,Miscellaneous Exercise:1, Q:1,Q:2

UNIT - 2: Theory of Quadratic Equations
Class Work: Exercise:2.1, Q:1(ii),Q:2(i),Q:3
Exercise:2.2,Q:1(i),Q:2(ii),Q:5(ii), Exercise:2.5, Q:1(f), Q:2(b),
Q:3(b),Exercise:2.6,Q:1,2,5, Exercise:2.8,Q:4,10
Home Work: Exercise:2.1, Q:1(iv),Q:2(iv),Q:4(iii),Q:10,
Exercise:2.2,Q:2(ii,viii),Exercise:2.3,Q:1(vi),Q:2(ii), Q:6(i),Exercise:2.5, Q:1(g,h),
Q:2(d,e), Exercise:2.7,Q:2,5,10,13,Exercise:2.8,Q:1,5,9,Miscellaneous
Exercise:2,Q:1,Q:2

UNIT - 3: Variations
Class Work: Exercise:3.1, Q:4,9, Q:11(iv), Exercise:3.2, Q:1(iii), Q:8,11,
Exercise:3.3, Q:1(i),
Q:2(iv,vi),Q:3(i),Q:4(iii):Exercise:3.4,Q:1(i),Q:2(iv,vi),Exercise:3.5,Q:1,Exercise:3.6,
Q:1(iii),Q:2(ii),Exercise:3.7,Q:2,9
Home Work: Exercise:3.1, Q:1(iv,v), Q:5,7, Q:11(v), Exercise:3.2, Q:2(ii), Q:5,10,13,
Exercise:3.3, Q:1(iv,vi), Q:2(ii,iv,v,vi),Q:3(iv),Q:4(ii):Exercise:3.4,Q:1(v,vi),Q:2(ii,
,v),Exercise:3.5,Q: 3,5, Exercise:3.6,Q:1(ii,vi),Exercise:3.7,Q:3,9, Miscellaneous
Exercise:3,Q:1,Q:2

UNIT - 4: Partial Fractions
Class Work: Exercise:4.1,Q:8, Exercise:4.2,Q:2,Exercise:4.3, Q:8,
Home Work: Exercise:4.1,Q:2,4,7, Exercise:4.2,Q:1,6,8, Exercise:4.3, Q:1,6,
Exercise:4.4, Q: 3,6, Miscellaneous Exercise:4, Q:1,Q:2(i-v)

UNIT - 5: Sets and Functions
Class Work: Exercise:5.1,Q:1(i),Q:3(i,vi),Q:4(i),Q:6(i), Exercise:5.2, Q:1(v), Q:2(iv),
Exercise:5.3, Q:1(i), Q:2(iii), Q:4(iii), Exercise:5.4, Q:3(iii), Exercise:5.5, Q:3(i),
Q:5(ii)
Home Work: Exercise:5.1,Q:1(ii,iii,iv),Q:3(ii,iii,iv,v),Q:4(iii),Q:6(ii), Exercise:5.2,
Q:1(vi-viii),Q:3, Q:4(ii), Exercise:5.3, Q:1(iii,v), Q:2(ii), Q:4(v), Exercise:5.4, Q:5(ii),
Exercise:5.5, Q:3(ii,iii), Q:5(iii), Miscellaneous Exercise:5, Q:1,Q:2

UNIT - 6: Basic Statistics
Home Work: Exercise:6.1,Q:3, Exercise:6.2, Q:11,12, Exercise:6.3, Q:4, Q:7,
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UNIT - 1: Algebraic Formulas and Applications
Class Work: Exercise:1.1, Q:1,8,11, Exercise:2.3, Q:1,11,16,18, Exercise:2.4, Q:3,8,10,13, 17,21, Exercise:2.5, Q:1,10,12,16,18, Review Exercise:2, Q:1
Home Work: Exercise:1.1, Q:3,5,9,16,19,20,28,31 Exercise:1.2, Q:3,5,9,11,16,18, Exercise:1.3, Q:2(vi), Q:3(ii, vi, viii), Q:8,9, Review Exercise:1, Q:1

UNIT - 2: Factorization
Class Work: Exercise:2.1, Q:1,11,16, Exercise:2.2, Q:2,12, Exercise:2.3, Q:7,9,20, Exercise:2.4, Q:1,15,22, Exercise:2.5, Q:3,6,19
Home Work: Exercise:2.1, Q:3,6,8,13, Exercise:2.2, Q:3,6,9, Exercise:2.3, Q:1,11,13,16, Exercise:2.4, Q:3,8,10,13, 17,21, Exercise:2.5, Q:1,10,12,16,18, Review Exercise:3, Q:1

UNIT - 3: Algebraic Manipulation
Class Work: Exercise:3.1, Q:1,11,15, Exercise:3.2, Q:1,10, Exercise:3.3, Q:1,9,15, Exercise:3.4, Q:1,8,17, Exercise:3.5, Q:2,12, Exercise:3.6, Q:4,5,9
Home Work: Exercise:3.1, Q:2,5,7,12, Exercise:3.2, Q:3,6,9, Exercise:3.3, Q:3,7,12,14, Exercise:3.4, Q:3,7,9,12,15, Exercise:3.5, Q:1,6,7,11, Exercise:3.6, Q:1,8,12, Review Exercise:3, Q:1

UNIT - 4: Linear Equations and Inequalities
Class Work: Exercise:4.1, Q:1(ii), Q:3,10,18, Exercise:4.2, Q:3,12,16
Home Work: Exercise:4.1, Q:1(iii), Q:5,8,16,20, Exercise:4.2, Q:3,6,9,15, Review Exercise:4, Q:1

UNIT - 5: Quadratic Equations
Class Work: Exercise:5.1, Q:1,8,15,19,25, Exercise:5.2, Q:3,12, Exercise:5.3, Q:2,8
Home Work: Exercise:5.1, Q:2,9,12,13,14,18,24, Exercise:5.2, Q:1,4,8,9, Exercise:5.3, Q:2,8, Review Exercise:5, Q:1

UNIT - 6: Matrices and Determinants
Class Work: Exercise:6.1, Q:4(A, J), Exercise:6.2, Q:3(C), Q:7(A), Exercise:6.3, Q:1(v), Q:2(C), Q:3(ii), Q:8,10, Exercise:6.4, Q:2,7,14,16, Exercise:6.5, Q:1(ii), Q:2(iii), Q:3(ii), Q:4(b), Exercise:6.6, Q:1, Q:2(ii), Q:4(ii), Q:5(ii)

UNIT - 7: Fundamentals of Geometry
Class Work: Exercise:7.1, Q:2, Q:7(iii, vii), Exercise:7.2, Q:2, Exercise:7.3, Q:2,5, Exercise:7.4, Q:1[a(i, iii), d], Q:5
Home Work: Exercise:7.1, Q:4,5, Q:7(iv, ix), Exercise:7.3, Q:2,5, Review Exercise:7, Q:1

UNIT - 8: Practical Geometry
Class Work: Exercise:8.1, Q:1,9,13,25,28,
Home Work: Exercise:8.1, Q:3,4,11,15,17,20,24,27, Review Exercise:8, Q:1

UNIT - 9: Area and Volumes
Class Work: Exercise:9.1, Q:1(i), Q:3,10, Exercise:9.2, Q:2,14,19, Exercise:9.3, Q:1,3,8
Home Work: Exercise:9.1, Q:1(iii), Q:6,7, Exercise:9.2, Q:1,6,12,17, Exercise:9.3, Q:2,4,5,6,7, Review Exercise:9, Q:1

UNIT - 10: Introduction to Coordinate Geometry
Class Work: Exercise:10.1, Q:1(ii, vii), Q:2(ii), Q:4,9,11
Home Work: Exercise:10.1, Q:1(i, vi, x), Q:2(iv), Q:6,10, Review Exercise:10, Q:1
Chapter 10: Simple Harmonic Motion and Waves

Simple Harmonic Motion, Motion of Mass Attached to a Spring, Motion of a Simple Pendulum, Wave Motion, Ripple Tank

Activity: 10.2, Types of Mechanical Waves, Relation between Velocity, Frequency and Wavelength (v=f \lambda),

Examples: 10.1, 10.2

Exercise:

Class Work:
- MCQs: (i-vi, viii, ix), Review Questions: (10.1, 10.4, 10.5), Numerical Problems: (10.1-10.3, 10.9, 10.10)

Home Work:
- Review Questions: (10.2, 10.7), Numerical Problems: (10.4)

Chapter 11: Sound Waves

Sound Waves, Sound is produced by a Vibrating Body Activity 11.1, Sound
باب 6: تاريخ


باب 7: باكستان، خارج الاقليم

باب 8: معايير قرنسية
Chapter 10: Simple Harmonic Motion and Waves

Simple Harmonic Motion, Motion of Mass Attached to a Spring, Motion of a Simple Pendulum, Wave Motion, Ripple Tank

Activity: 10.2, Types of Mechanical Waves, Relation between Velocity, Frequency and Wavelength (v=f\lambda), Examples: 10.1, 10.2

Exercise:

Class Work: MCQs: (i-vi, viii, ix), Review Questions: (10.1, 10.4, 10.5), Numerical Problems: (10.1-10.3, 10.9, 10.10)

Home Work: Review Questions: (10.2, 10.7), Numerical Problems: (10.4)

Chapter 11: Sound Waves

Sound Waves, Sound is produced by a Vibrating Body Activity 11.1, Sound
Requires Material Medium for its Propagation, Longitudinal Nature of Sound Waves, Characteristics of Sound, Loudness, Pitch, Quality, Intensity, Sound Intensity Level, Speed of Sound, Audible Frequency Range, Ultrasound, Examples: 11.1, 11.2

Exercise:
Class Work: Review Questions: (11.4, 11.5, 11.7-11.11, 11.15, 11.18), Numerical Problems: (11.1-11.6)
Home Work: MCQs: (i-vii), Review Questions: (11.1, 11.2), Numerical Problems: (11.9)

Chapter 12: Geometrical Optics
Spherical Mirrors, Image Location by Spherical Mirrors, Sign Conventions, Refraction of Light, Laws of Refraction, Refractive Index, Total Internal Reflection, Refraction through Prism, Lenses, Image Location by Lens Equation, Sign Conventions for Lenses, Examples: 12.1-12.6

Exercise:
Class Work: MCQs: (ix, x), Review Questions: (12.6, 12.8-12.10), Numerical Problems: (12.2-12.5, 12.7-12.10)
Home Work: MCQs: (i-vii), Review Questions: (12.4, 12.7, 12.12), Numerical Problems: (12.1)

Chapter 13: Electrostatics
Electrostatic Induction, Coulomb’s Law, Electric Field and Electric Field Intensity, Electrostatic Potential, Capacitors and Capacitance, Combination of Capacitors, Capacitors in Parallel, Capacitors in Series, Uses of Capacitors, Examples: 13.1-13.4

Exercise:
Home Work: Review Questions: (13.17), Numerical Problems: (13.9, 13.10)

Chapter 14: Current Electricity

Exercise:
Home Work: MCQs: (i-ix), Review Questions: (14.3-14.5, 14.10, 14.11), Numerical Problems (14.1, 14.2, 14.4-14.7)
Chapter 15: Electromagnetism
Magnetic Effects of a Steady Current, Direction of Magnetic Field, Magnetic Field of a Solenoid, Electromagnetic Induction, Direction of Induced e.m.f – Lenz’s Law, Mutual Induction, Transformer, Working of a Transformer, Example: 15.1
Exercise:
Class Work: MCQs: (iii-vii), Review Questions: (15.1, 15.3, 15.7, 15.9), Numerical Problems: (15.3, 15.4)
Home Work: MCQs: (i, ii, viii, ix), Review Questions: (15.11, 15.12), Numerical Problems: (15.1, 15.2)

Chapter 16: Basic Electronics
Analogue and Digital Electronics, Basic Operations of Digital Electronics – Logic Gates, AND Operation, OR Operation, NOT Operation, NAND Gate, NOR Gate, Uses of Logic Gates, House Safety Alarm
Exercise:
Class Work: Review Questions: (16.8, 16.9)
Home Work: MCQs: (iii-vii), Review Questions: (16.7, 16.10)

Chapter 17: Information and Communication Technology
Information and Communication Technology, Components of Computer Based Information (CBIS), Transmission of Light Signals through Optical Fibres only, Internet, Internet Services, Browsers, Electronic Mail
Exercise:
Class Work: Review Questions: (17.2, 17.11)
Home Work: MCQs: (i, iii, vi, vii), Review Questions: (17.1, 17.3, 17.7)

Chapter 18: Atomic and Nuclear Physics
Atom and Atomic Nucleus, Isotopes, Natural Radioactivity, Background Radiations, Nuclear Transmutations, Half-Life and its Measurement, Radioisotopes and their Uses, Fission Reaction, Nuclear Fusion, Examples: 18.1, 18.2
Exercise:
Class Work: MCQs: (i-ix), Review Questions: (18.1, 18.3, 18.5-18.9, 18.11-18.13), Numerical Problems: (18.1-18.3, 18.5, 18.7, 18.9)
Home Work: Review Questions: (18.2, 18.4, 18.10)

EXPERIMENTS:
1. To verify the Laws of Refraction by using a Glass Slab.
2. To determine the Critical Angle of Glass using a Semi Circular Slab and a Light Ray Box or by Prism.
3. To trace the path of a ray of light through Glass Prism and measure the Angle of Deviation.
4. To find the Focal Length of a Convex Lens by Parallax Method.
5. Verify Ohm’s Law (using Wire as Conductor).
6. To study Resistors in Series Circuit.
7. To study Resistors in Parallel Circuit.
8. To find the Resistance of Galvanometer by Half Deflection Method.
9. To verify the Truth Tables of OR, AND, NOT, NOR and NAND Gates.

Chapter 9: Chemical Equilibrium
Definition of and properties of Reversible Reaction, definition of chemical equilibrium state and Dynamic Equilibrium state, definition of Law of Mass Action and its derivation \((K_c=[C][D]/[A][B])\), definition of Equilibrium Constant and its Units, Problems: 9.1, 9.2, 9.3 (pp. 2-5, 6-12).

Practicals:
No Practical

Questions:
Classwork: Multiple Choice Questions (1,3,4, 5,9,12,13) (pp.16-17)
Homework: Short Answer Questions (2, 3, 5-9,11) (p.18); Extensive Questions (3,4) (p.18); Numericals (1, 4) (pp.18-19)

Chapter 10: Acids, Bases and Salts

Practicals:
Standardize the Given NaOH Solution Volumetrically.
Determine the Exact Molarity of a Solution of Oxalic Acid Volumetrically.
Demonstrate that Some Natural Substances are Weak Acids.
Classify Substances as Acidic, Basic or Neutral.

Questions:
Classwork: Multiple Choice Questions (1-3, 5,7, 9, 10-13, 17-19) (pp.46-47)
Homework: Short Answer Questions (1-9)(pp.48); Extensive Questions(1-9)(p.18);
Numericals (1, 4); (p.50)

Chapter 11: Organic Chemistry
Definition of Organic Compounds and types of organic compounds according to the formula, Classification of Organic Compounds, homologous series.(pp. 52- 57, 66-71).

Practicals:
Identify Carboxylic Acids using Sodium Carbonate Test.
Identify Phenol using Ferric Chloride Test.

Questions:
Classwork: Multiple Choice Questions (10-12, 15, 22, 23) (p.76-78)
Chapter 9: Chemical Equilibrium
Definition of and properties of Reversible Reaction, definition of chemical equilibrium state and Dynamic Equilibrium state, definition of Law of Mass Action and its derivation (Kc = [C][D] / [A][B]), definition of Equilibrium Constant and its Units, Problems: 9.1, 9.2, 9.3 (pp. 2-5, 6-12).

Practicals:
No Practical

Questions:

Classwork: Multiple Choice Questions (1, 3, 4, 6-8, 12-16) (pp.97-99)

Homework: Short Answer Questions (1-6, 8-10, 13) (p.116); Long Answer Questions (1-3, 5-6) (p.116)

Chapter 10: Acids, Bases and Salts

Practicals:
Standardize the Given NaOH Solution Volumetrically.
Determine the Exact Molarity of a Solution of Oxalic Acid Volumetrically.
Demonstrate that Some Natural Substances are Weak Acids.
Classify Substances as Acidic, Basic or Neutral.

Questions:

Classwork: Multiple Choice Questions (1-8, 12-15) (pp.114-115)

Homework: Short Answer Questions (1-6, 8-10, 13) (p.116); Long Answer Questions (1-3, 5-6) (p.116)

Chapter 11: Organic Chemistry
Definition of Organic Compounds and types of organic compounds according to the formula, Classification of Organic Compounds, homologous series. (pp. 52-57, 66-71).

Practicals:
Identify Carboxylic Acids using Sodium Carbonate Test.
Identify Phenol using Ferric Chloride Test.

Questions:

Classwork: Multiple Choice Questions (10-12, 15, 22, 23) (p.76-78)

Homework: Short Answer Questions (5-11) (pp.78); Extensive Questions (3, 5, 7-10, 12) (p.79); Numericals (1, 4) (pp.79-80)

Chapter 12: Hydrocarbons
Hydrocarbons, Alkanes, Alkenes, Alkynes (pp. 81-93).

Practicals:
Identify Saturated and Unsaturated Organic Compounds by KMnO4 Test.

Questions:

Classwork: Multiple Choice Questions (1, 3, 4, 6-8, 12-16) (pp.97-99)

Homework: Short Answer Questions (2, 4, 5, 7, 9-13, 15, 18) (p.99); Extensive Questions (1, 3, 4, 6) (p.100)

Chapter 13: Biochemistry
Carbohydrates and types of carbohydrates, Proteins, Lipids, Fatty Acids (Excluding their Sources and Uses); (pp. 102-106).

Practicals:
Demonstrate that Sugar Decomposes into Elements and other Compounds.

Questions:

Classwork: Multiple Choice Questions (1-8, 12-16) (pp.134-136)

Homework: Short Answer Questions (3, 5-8, 10, 12) (p.136); Long Answer Questions (2, 3, 5, 7, 8) (p.136)

Chapter 14: Environmental Chemistry-I (The Atmosphere)

Practicals:
No Practical

Questions:

Classwork: Multiple Choice Questions (1, 3, 4-8, 10, 13-16, 18) (pp.134-136)

Homework: Short Answer Questions (3, 5-8, 10, 12) (p.136); Long Answer Questions (2, 3, 5, 7, 8) (p.136)

Chapter 15: Environmental Chemistry-II (Water)
Water as Solvent, definition of soft and hard water, disadvantages of hard water, Water Pollution, Waterborne Infectious Diseases; (pp. 139-140, 144-147)

Practicals:
No practical

Questions:

Classwork: Multiple Choice Questions (3, 8-12, 14-16) (pp.151-152)

Homework: Short Answer Questions (2-4, 11-14) (pp.152-153); Extensive Questions (1, 3, 5-7, 9) (p.153)

Chapter 16: Chemical Industries
Basic Metallurgical Operations, Manufacture of Sodium Carbonate by Solvay’s Process,
BIOLOGY

Chapter 10: Gaseous Exchange
Gaseous Exchange in Plants, Gaseous Exchange in Humans, The Air passageway, The Mechanism of Breathing, Respiratory Disorders (Bronchitis, Pneumonia, Asthma), Bad Effects of Smoking - (pp. 2-15)
Practicals:
No practicals
Questions:
Classwork: Multiple Choice (1-6, 9-10) (pp. 16)
Homework: Short Questions (1, 2, 3) Understanding the Concepts (1, 2, 4) - (pp. 17)

Chapter 11: Homeostasis
Practicals:
No practicals
Questions:
Classwork: Multiple Choice (1-9) (pp. 29-30)
Homework: Short Questions (2), Understanding the Concepts (1-5) - (pp. 30)

Chapter 12: Coordination and Control
Types of Coordination, Coordinated Action, Human Nervous system, Nerve Cell or Neuron, Divisions of the Nervous System, Brain, Spinal Cord, Peripheral Nervous System, Reflex Action, Endocrine System, Important Endocrine Glands (complete), Feedback Mechanism - (pp.32-52)
Practicals:
No practicals
Questions:
Classwork: Multiple Choice (1, 4, 6-10) (pp. 53)
Homework: Short Questions (1-5, 8), Understanding the Concepts (1-3, 9-11) - (pp. 54)

Chapter 13: Support and Movement
Human Skeleton, Role of Skeletal System, Bone and Cartilage, Components of
Chapter 10: Gaseous Exchange
Gaseous Exchange in Plants, Gaseous Exchange in Humans, The Air passageway, The Mechanism of Breathing, Respiratory Disorders (Bronchitis, Pneumonia, Asthma), Bad Effects of Smoking - (pp. 2-15)

Practicals:
No practicals

Questions:
Classwork: Multiple Choice (1-6, 9-10) (pp. 16)
Homework: Short Questions (1, 2, 3) Understanding the Concepts (1, 2, 4) - (pp. 17)

Chapter 11: Homeostasis

Practicals:
No practicals

Questions:
Classwork: Multiple Choice (1-9) (pp. 29-30)
Homework: Short Questions (2), Understanding the Concepts (1-5) - (pp. 30)

Chapter 12: Coordination and Control
Types of Coordination, Coordinated Action, Human Nervous system, Nerve Cell or Neuron, Divisions of the Nervous System, Brain, Spinal Cord, Peripheral Nervous System, Reflex Action, Endocrine System, Important Endocrine Glands (complete), Feedback Mechanism - (pp.32-52)

Practicals:
No practicals

Questions:
Classwork: Multiple Choice (1, 4, 6-10) (pp. 53)
Homework: Short Questions (1-5, 8), Understanding the Concepts (1-3, 9-11) - (pp. 54)

Chapter 13: Support and Movement
Human Skeleton, Types of Joints, Roles of Tendons and Ligaments, Muscles and Movement - (pp. 57-65)

Practicals:
Investigation of the nature of bone (by putting three pieces of rib bone of lamb in water, NaOH and dilute HCl)

Questions:
Classwork: Multiple Choice (1-10) (pp. 66-67)
Homework: Short Questions (1-4), Understanding the Concepts (1-4) - (pp. 67)

Chapter 14: Reproduction
Reproduction, Method of Asexual Reproduction, Binary Fission, Fragmentation, Budding, Spore Formation, Parthenogenesis, Artificial Vegetative propagation, Sexual Reproduction in Plants, Pollination, Germination of seed, Sexual Reproduction in Animals, Fertilization, AIDS - A Sexually Transmitted Disease - (pp. 70-89)

Practicals:
Observation of binary fission of amoeba using slides, photomicrographs or charts
Observation of budding in yeast from prepared slides

Questions:
Classwork: Multiple Choice (1, 2, 5) (pp. 91)
Homework: Short Questions (2-5), Understanding the Concepts (1, 3, 5) - (pp. 92)

Chapter 15: Inheritance
Introduction to Genetics, Chromosomes and Genes, Watson Crick Model of DNA, How does DNA of Chromosomes work, Genotype and its types, Mendel’s Laws of Inheritance, Mendel’s Law of Segregation, Mendel’s Law of Independent Assortment - (pp. 94-101)

Practicals:
No practicals

Questions:
Classwork: Multiple Choice (1-7) (pp.109-110)
Homework: Short Questions (1-3), Understanding the Concepts (1-3) - (pp.110)

Chapter 16: Man and His Environment
Levels of Ecological Organization, Components of Ecosystem, Flow of Materials, Biogeochemical Cycles (Carbon cycle, Nitrogen Cycle), Interactions in Ecosystems, Symbiosis (Parasitism, Mutualism, Commensalism), Conservation of Nature, Basic information about Dengue Fever - (pp.113-134)

Practicals:
No practicals

Questions:
Classwork: Multiple Choice (1, 2, 4-7) (pp. 135)
Homework: Short Questions (1, 2, 4, 5), Understanding the Concepts (1, 4) - (pp. 135-136)
Chapter 17: Biotechnology
Introduction of Biotechnology, Fermentation (Alcoholic Fermentation, Lactic acid Fermentation), Fermentation in Biotechnology, Applications of Fermentation, Genetic Engineering, Basic Steps in Genetic Engineering, Achievements of Genetic Engineering - (pp. 138-147)

Practicals:
No practicals

Questions:
Classwork: Multiple Choice (1-4) (pp. 148)
Homework: Short Questions: (1-3, 5), Understanding the Concepts (1, 3, 4) - (pp. 148)

Chapter 18: Pharmacology
Medicinal Drugs, Addictive Drugs, Sedatives, Narcotics, Hallucinogens, Drug Addiction and Associated problems, Antibiotics and Vaccines, Antibiotics, Antibiotic Resistance, Vaccines, Mode of Action of Vaccines - (pp. 150-156)

Practicals:
No practicals

Questions:
Classwork: Multiple Choice (1-8) (pp. 157)
Homework: Short Questions (1, 2, 4, 5), Understanding the Concept (1-5) - (pp. 157-158)
Unit 1: Problem Solving:
Problem Solving Method (List of Steps of Problem-solving, Design Algorithm and Draw Flowchart, Write the Program (Coding), Test and Debug the Program) (Pg. 1-3), Algorithm (Pg. 4), Strategy for Developing Algorithm (Pg. 4-5), Problem 2 (Pg. 6), Flowchart (Pg. 8, 9)
Class Work: Q. 2, 5, 7, 10 (i, iv, v, vii, ix, x) (Pg. 10 - 12)
Home Work: Q # 6, 8, 10(iv, viii) (Pg. 12)

Unit 2: Data Types, Assignment and Input / Output Statements:
Introduction (Pg. 13), Writing Programs in GW-BASIC (Create and Save the Program, Load the Program, Execute the Program) (Pg. 14, 15), Structure of BASIC Program (Pg. 15), Reserved Words (Pg. 17), Variables (Rules for Naming Variables in BASIC, Type Declaration Characters, Types of Variables) (Pg. 17-18), Constants (Pg. 18-19), BASIC commands (AUTO, EDIT, LIST, LOAD, RUN, SAVE, SYSTEM) (Pg. 19-26), BASIC statements (END, REM) (Pg. 27), Operators in BASIC (Pg. 28-31), BASIC statements (READ/DATA, INPUT, PRINT (Pg. 33-37)
Class Work: Q. 2,4, 6,10 (ii, ix), (Pg 38-40)
Home Work: Q. 5, 7,9, 10 (ii, viii) (Pg. 39-40)

Unit 3: Control Structures:
Introduction (Pg. 41), Selection Structure (Pg. 45-48), Loops (Pg.48-50)
Class Work: Q. 2, 4,7, 12, 14 (Pg. 51-52)
Home Work: Q. 5, 8, 10, (Pg. 52)

Unit 4: Arrays:
Introduction (Pg. 53), What is an Array? (Pg. 53-54), Filling and Printing of an Array (Pg. 54-55), Types of Array (Pg. 56), One-Dimensional Array (Pg. 56-57),
Class Work: Q .2, 6,11,18 (Pg. 59, 60)
Home Work: Q. 5,10,9, 14,17(vii, viii) (Pg. 60)

Unit 5: Sub-Program and File Handling:
Introduction (Pg. 61), Built-in Function (ABS, INT, RND, LOG, DATE$, VAL, MID$, RIGT$, CHR$) (Pg. 61-67), User-Defined Functions (Pg. 67-69)
Class Work: Q.2,5,10,11,13 (Pg.76,77)
Home Work: Q. 4,6,9, 12 (Pg. 77)

Unit 6: Graphics in BASIC:
Introduction (Pg. 79), SCREEN Statement (Pg. 80, 81), PSET Statement (Pg. 83, 84), LINE, CIRCLE, DRAW Statements (Pg. 84-86)
Class Work: Q.2, 7, 8, 10 (Pg. 87-88)
Home Work: Q. 4, 9, 11,15 (Pg. 88)

Unit 7: Microsoft Word:
Entire unit excluded.
List of Practicals for Grade IX (Old)

Unit 1: Demonstration of Computer Components
Entire Unit Excluded

Unit 2: DOS Internal Commands
1. Demonstration of DIR Command in detail including switches used with it
2. Demonstration of CD, MD, RD, and CLS Commands
3. Demonstration of Copy and DEL/ Erase Command
4. Demonstration of TIME, DATE, VOL and VER Commands
5. Demonstration of Xcopy Commands
6. Demonstration of CHKDSK and DISKCOPY Commands
7. Demonstration of ATTRIB Commands
8. Demonstration of FORMAT Commands

Unit 3: Introduction to Windows
9. Creating New Folder
10. How to Search for a File or Folder
11. To Cut/Copy and Paste a File Folder from one location to another
12. How to Use Recycle Bin
13. To Display the My Recent Document Folder on Start Menu and Open Recently used document
14. How to Open and Make Selections from a Menu
15. How to Access Control Panel and Set the Time & Date
16. How to Arrange a Remove Icons
17. How to Add or Remove Programs and Windows Components

List of Practicals for Grade X

Unit 1: Introduction to GW Basic
1. Write a Program to find sum of average of three numbers
2. Write a Program to find area of a rectangle
3. Write a Program to find area and circumference of a circle
4. Write a Program to calculate surface area and volume of a cube
5. Write a Program to convert temperature from Fahrenheit to Centigrade
6. Write a Program to calculate distance covered by a car moving at an average speed of V m/s in time t (sec). The Program should input average speed and time.
7. Write a Program that asks for name, roll number, class, section and marks in different subjects of a students of class 10. The program should calculate and display total obtained marks and percentage of marks.
8. Write a Program to input a number and display whether it is even or odd
9. Write a Program to calculate grade of a student
10. Write a Program to write first ten natural numbers using for next loop
11. Write a Program to sum the series 2, 4, 6..., 100
12. Write a Program to display a table of given number up to ten values
13. Write a Program for the use of iteration of statement, (Read 5 values from keyboard and find their mean gravity and compare the mean value against actual value 9.8 meters / sec2
14. Write a program to find Factorial of a given number
15. Write a program to fill an array with letters a,b,c,d
16. Write a program to enter integer type data into an array and then to print the values in reverse order
17. Write a program to read an array with 20 numbers and find the product of numbers in that array
18. Write a program to find largest number out of given 10 numbers using an array
19. Write a program to input numbers in two-dimensional array with 2 columns and 2 rows and display the result in third array by adding these array
20. Write a program to sort the list of 20 names in descending order
21. Write a program using subroutine named mean and call this in main function
22. Write a program to print characters “tan” from the string “Pakistan Zindabad” using mid$ function
23. Write a program to print first three characters from any string given by user, using left$ function
24. Write a program to draw a line using LINE statement
CHAPTER 6: ENVIRONMENT AND NATURAL RESOURCES:
Class Work: 6.1. Earth’s Atmosphere, 6.2. Environmental Pollution, 6.5. Dairy and Poultry Farming, 6.6. Wildlife and National Parks,
Home Work: Exercise : Question No. 1(i – v, viii,ix), 2 (i-iv), 3(i-iii,v), 4, 5, 6, 7, 8, 11( b,c,d)

CHAPTER 7: ENERGY:
Home Work:Exercise: Question No. 1,2,3 (i-iv), 4 (i-ii,v),5,6,8,9,10

CHAPTER 8: CURRENT ELECTRICITY:
Home Work: Exercise: Question No. 1,2 (i-iv), 3(ii-v), 4(i-ix),5,6,7,8,9

CHAPTER 9: BASIC ELECTRONICS:
Home Work: Exercise: Question No. 2(i-iv), 3(iii, iv & v),4, 6, 7, 9, 10

CHAPTER 10: SCIENCE AND TECHNOLOGY:
Home Work: Exercise: Question No. 1 (i-iii,v) ,2 (ii-iv), 5,6, 7,8, 11,12

CHAPTER 11: SPACE AND NUCLEAR PROGRAMME OF PAKISTAN:
Class Work: 11.1. Importance of Space Programme , 11.2. Space Programme of Pakistan, 11.3. Nuclear Power Programme of Pakistan,
Home Work: Exercise: Question No. 1,2,3,4,5,6,7