***** Class FOLIR *****

SCIENCE CLASS FOUR TO EIGHT

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Chapter 1. Our Body	3
Which is central control system of the body? Brain	10
2 A headache is not a pain of? Brain	1
Most headaches happen in the? Nerves	
4. Which part of body stores the food? Stomach	
Stomach passes liquid mixture to which part of body?Small Inte	stine
6. Which part absorbs all nutrients of the food? Small Intestine	
7. How many primary teeth are there? 20	
How many permanent teeth do adults have?	
Which part of body helps elephants to control their temperature?	Ears
10. Which elephants have larger ears than Asian elephants? Africa	n
11. The part of ear which is visible called? External Ear 12. Which are the breathing centers of body? Lungs	
12. Which are the breathing centers of body? Lungs	
13. Where lungs of humans are located? Chest Cavity	
14. Lungs are protected by? Ribcage	
15. Where does the inhaled air enter? Lungs	
16. Wind pipe where clean air enters is known as? Trachea	
 In how many small tubes Trachea is divided? Two (Bronchial T 	ube)
18. Each Bronchial tube is joined with? Lungs	
19. Asthma is main disorder of? Lungs	
20. Which is the pumping station of the body? Heart	
21. The average human heart beats about how many times in a minute?	72
22. How many bones are there in human body? 206	
23. Places where two bones meet are called? Joints	
24. Outer layer of the body is called? Skin	
25. Largest outer part of body is? Skin	
26. What is thickness of human skin? 2 millimeters	
27. The part of body that gives you shape is? Skelton	
	4
Chapter 2. Characteristics and Needs of Living Things	*
500kg - 1950km - 15kg	
28. The characteristics that an organism inherits from its parents are	
called? Traits	
29. Life cycle of butterfly is? Eggs-larva-pupa-adult	
30. Larva of butterfly is also called? Caterpillar	

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31. Pupa of butterfly is also called? Chrysalis
32. Life cycle of frog is? Spawn-Tadpole-frog
33. Frog eggs are also called? Spawn
34. Spawn of frog develops into? Tadpole
35. Tadpole develops into? Frog
2_
Chapter. 3 Food and Health
Which are the major sources of quick energy for body? Carbohydrates
Which are main source of body growth? Minerals Which main sources protect body from diseases? Vitamins
4. Vitamins are mainly found in? Fruits and vegetables
Vitamins are mainly found in? Fruits and vegetables Minerals are mainly found in? Sea food
6. What do Milk, meat, eggs and pulses provide? Protein
7. Fats are found in? Oil, Butter and margarine
8. Vitamin A prevents disease called?Night Blindness
Vitamin B complex prevents disease called? Beriberi
10. Which vitamin strengths immune system? Vitamin C
11. Vitamin C prevents a disease called?Scurvy
12. Which Vitamin strengths bones and teeth? Vitamin D
13. Vitamin D prevents disease called? Rickets
14. Which are the building blocks of body? Proteins
15. Flash of body is made up of? Protein
16. What makes the red blood cells? Iron
17. Which disease is caused by deficiency of iron? Anemia
18. Deficiency of calcium causes? Rickets
19. Deficiency of copper causes? Kidney problems
20. Deficiency of magnesium causes? Osteoporosis
21. Deficiency of protein causes? Marasmus
22. Weight loss of children is due to? Marasmus
23. Marasmus develops due to lack of? Nutrients
24. Kwashiorkon disease is caused by deficiency of? Iron
25. Keeping oneself clean is called? Hygiene
Chapter 4. Living Things and Their Environment
1) The natural world that surrounds a living and non-living things is called? _ Environment
2) What do Herbivores eat? Plants
3) What do Carnivores eat? Animals
4) What do Omnivores eat? Plants and Animals
5) Human beings are? Omnivores

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7) Which are the only primary consumers? Herbivores 8) Organisms that eat primary consumers are called? Secondary Consumers 9) Which are the only secondary consumers? Carnivores 10) Which are the consumers that eat both herbivores and carnivores? Omnivores 11) Animals that eat primary secondary consumers are called? Tertiary Consumer 12) Organisms that eat all the dead and waste products of producers and consumers are called? Decomposers 13) Which is the correct order of levels in a food chain? Producer-consumer-decomposer 14) Which best describes the frog? Consumer 15) Which animal is considered as decomposer? Mold 16) What is key role of decomposers? breaking down dead animals Chapter 5. Matter and its State 1) Anything that occupies space and has mass is called? Watter 2) How many states of matters are there? Three (Solid, liquid and gas) 3) The amount of space a material object occupies is called it? Volume 4) State of matter that has fixed shape and fixed volume is called? Solid 5) Volumes of solids do not change with? Pressure 6) State of matter that has fixed volume but not fixed shape is called? Gas 8) Solids, liquids and gases mix together to form? Mixture 9) Solution is a kind of? Mixture. 10) The process of separation of solute and solvent from the mixture is called? Filtration 11) Solid can be converted into liquid by? Heating 12) Liquid can be converted into liquid by? Cooling 14) Liquid can be converted into liquid by? Cooling 15) Water is a? Compound Chapter 6. Heat and its Measurement 10) The process of separation of solute and solvent from the mixture is called? Filtration 11) Fleat is a form of? Energy 2) In, what heat energy is measured? Joules 3) What is unit of energy? Joule 4) How many scales are there to measure temperature? Two	6) Organisms that eat the producers are called? Primary Consumers		
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temperature?Two	3) What is unit of energy? Joule		
(8 P. 10 P.	4) How many scales are there to measure		
-1 - 17 - A	temperature? Two		
5) Degrees of hotness are measured by?	5) Degrees of hotness are measured by?		
Thermometer	Thermometer		

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a man and the second se	emperature in laboratory
	r is? _ 10 Centigrade
77 15 15 15 15 15 15 15 15 15 15 15 15 15	emperature in laboratory
	r is? 110 Centigrade
	is used in the clinical
	r? Mercury
	point of water at
	caleis? 32 F
726-73	point of water at
	cale is? 212 F ivisions does Fahrenheit
have?	180
C.Y/2.984.63	tale on thermometer is
	95 F to? 108 F
1200201000110010	hapter 7. Force and Machine
 A pull or 	push is called? Force
 Speed of 	any object can be changed by?Force
 Speed ca 	n be measured in? Kilometers per hour
	Chapter 8. Sound
. Sound is	produced by?vibrating objects
	nnot travel through a? Vacuum
	imals do not have ears? Snakes
	el vibrations by their? Tongue
	described in terms of? Intensity in decibels
	ravel faster through? Solids
	ecibel is denoted by? dB
	to World Health Organization, dB must be of? 75 dB
N. Charles and Co.	n 115 dB is considered as? Noise
- Molegia	11-1-1-3 do la collaidel ed dat Hoise
Chir	Chapter 9. Electricity and Magnetism

•	The flow of electricity is called? Current	
•	Materials through which electricity can pass are called?	Conductors
•	Materials through which electricity cannot pass are called?	Insulators
•	The path through which current pass is called? Circuit	
٠	Matter is made up of? Atoms	

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	Which are fundamental particles of atom? Electron, Proton and Neutron
٠	Which particles of atom are negatively charged? Electrons
٠	Which particles of atom are positively charged? Protons
	Which particles of atom are not charged and called neutral? Neutrons
	How many kinds of circuit are there? Two (open and close)
•	How many poles does magnet have? Two (south and north)
•	How many types of magnets are there? two (natural and artificial)
	The magnets which are made with help of electricity are called? Electromagnets
	Natural magnets are also called? Permanent magnets
	Artificial magnets are also called? Temporary magnets
•	The end of magnetic is called? Magnetic pole
•	The property of magnet to attract things is called? Magnetism
	.00
	Chapter 10. Movements of the Earth
	Earth rotates from the west to? East
•	The rotation of earth on its axis is called? Axial rotation
	Rotation of earth causes? Day and night
	Earth is traveling around the sun called? Revolution
•	The earth is tilted at an angle of? 23.5 degree

	***** Class FIVE *****
	Chapter 1. Classification of Living Things
•	Kingdom Animalia deals with? Animals
•	Kingdom Plantae deals with? Plants
•	Kingdom Monera deals with? Bacteria
•	Kingdom Protista deals with? Eukaryotic organism (single cells)
•	Kingdom Fungi deal with? Prokaryotic organisms (mushroom)
-	Who proposed the five-kingdom classification in 1969? Robert H. Whittaker
-	What is eukaryotic cell? Single cell
• 1	-What is prokaryotic cell? Multicellular
•	Study of Algae is called? Phycology
•	Study of Fungi is called? Mycology
٠	
•	Bacteria and fungi are? Unicellular organisms

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•	Plants make their own food by? Photosynthesis
٠	A process that does not take place in fungi is? Photosynthesis
٠	Algae make their own food by? Photosynthesis
	Cutleria, Ulva and Volvox are diseases caused by? Algae
	The word Animal comes from a Latin word meaning? Soul or Breathe
	Animals are further divided into two groups called? _ Vertebrates and invertebrates
•	Animals with backbone are called? Vertebrates
	Fish, amphibians, reptiles, birds and mammals are example of? _Vertebrate animals
	Animals without backbone are called? Invertebrates
	Worms, spiders and insects are example of? Invertebrate animals
•	Vertebrates animals that take on the temperature of their surrounding are called? Cold-blooded
•	Vertebrates animals that maintain a constant body temperature are called? Warm-blooded
•	Birds and animals are? Warm-blooded
•	Fishes, amphibians and reptiles are? Cold-blooded
•	How many kinds of fishes are there? 30,000
	The body of fish is covered with? Scales
٠	A fish swims in the water by it's?Fins
•	Fishes take breath through their part called? Gills
•	Animals that live in land as well as water are? Amphibians
	Amphibians lay their eggs in? Water
•	Frogs, toads, newts and salamanders are example of? Amphibians
•	Animals that spend most of their life on land but do often live in water are? Reptiles
•	Reptiles lay their eggs on? Land
•	Lizards, snakes, crocodiles, turtles, and tortoise are example of? Reptiles
٠	How many kinds of birds are there? 9,000
•	Which is biggest bird in the word? Ostrich
•	Animals that give birth to their babies and feed them with milk are? Mammals
•	Which is the only mammal that can fly in air? Bat
•	How many kinds of insects are there? 80,000
- 41	Which insects are environment friendly? Earthworms
C	Heaviest insect found in Africa is? Goliath Beetle
•	"How many pairs of jointed legs do insects have? Three
٠	How many species of plants have been discovered? 380,000
•	
•	Plants are divided into two main groups called? Flowering plants and Non-flowering plants
•	Plants that do not produce flowers are called? Non-flowering plants

- Seed germination in which the cotyledons emerge above the ground is called? Epigeal germination
- In which type of seed the process Epigeal germination takes place? Dicot seed
- Seed germination in which the cotyledons remain inside the soil is called? Hypogeal germination
- In which type of seed the process hypogeal germination takes place? Monocot seed
- A part of seed that contains stored food is called? Endosperm
- Most seeds germinate between the temperatures? 16 to 24 Centigrade
- Which three conditions are necessary for seed germination? Water, oxygen and proper temperature

Chapter 4. Environmental Pollution

- Which is main causes of ozone depletion? Air pollution
- Air pollution is caused by? Solid, liquid and gases pollutants
- Water borne diseases are caused by? Water pollution
- Cholera, diarrhea and typhoid diseases are caused by? Microbial pollutants
- Asthma is due to the exposure to a type of environment pollution called? Air Pollution

Chapter 5. Matter and Changes in its State

- What is melting point of ice? 0 Centigrade
- A process in which liquid changes into gas without boiling is called? Evaporation
- A process in which water vapor changes into liquid on cooling is called? Condensation
- In water cycle, water is available in how many states of matter? Three (all)
- Drops of water that form on cool surfaces at night due to condensation is called?
- A thick cloud of water droplets on the earth's surface is called? Fog
- Tiny droplets of water are called? Moisture

Chapter 6. Force and Machine

- A force that stops things from moving easily is called? Friction
- Fraction is a force which always opposes? Motion
- ▼Friction forces are larger on? Rough surfaces
- Fraction forces are smaller on? Smooth surfaces
- Fraction forces between the air and moving object cause? Resistance
- Force that opposes any object moving through the air is called? Air resistance
- A force of attraction between two objects is called? Gravity

- Ferns and mosses are example of? Non-flowering plants
- instead of seeds what non-flowering produce? Spores
- Flowering plants are further divided into two main types called? Monocot plants and dicot plants
- Seeds of monocot plants contain of how many cotyledons (seed leaf)? One cotyledon
- Seeds of dicot plants contain of how many cotyledons (seed leaf)? Two cotyledons
- · Which plants have parallel leaf venation? Monocot plants
- Which plants have netted venation of leaves? Dicot plants
- Flowers of which plants have three or multiple of three floral leaves? Monocot plants
- · Flowers of which plants have four or multiple of four floral leaves? Dicot plants
- Spider is an insect (False)
- Mushrooms belong to plant kingdom (False)
- Leech is an example of invertebrate (True)
- All insects have two pairs of wings (False)

Chapter 2. Microorganisms

- Microorganisms are grouped as? Virus, bacteria and fungi
- How many cells do bacteria have? One
- Escherichia is an example of? Bacteria
- Common cold is caused by? Flu virus
- Influenza is an example of? Virus
- Which are largest microbes among bacteria, virus and fungi? Fungi
- Yeast is an example of? Fungi
- Which are the non-cellular organisms? Virus
- Penicilium is fungus that produces antibiotic called? Penicillin
- Any disease caused by presence of microbial organisms in the body is called an? Infection

Chapter 3. Seeds, their Structure and Germination

- . What types of seeds are there? Monocot and Dicot
- Seed coat is known as? Testa
- The opening of the seed is called? Micropyle
- Mini plant inside the seed is called? Embryo
- Which part of seed develops into new plant? Embryo
- What emerges first in new plant? Roots
- Structure that emerges from the soil of new plant is called? Hypocotyl

- Quantity of matter in an object is? Mass
- Mass is measured in? Kilogram
- Weight is the pull of? Gravity
- Weight is measured in? Newton's
- A lever is a long bar which moves around a fixed point called? Fulcrum
- Lever is a kind of? Simple machine
- How many kinds of lever are there? Three (first, second and third kind of lever
- In first kind of lever, fulcrum is between? Effort and load
- In second kind of lever, load is between? Effort and fulcrum
- In third kind of lever, effort is between? Load and fulcrum
- A type of simple machine with two slanting sides ending in a sharp edge is called? Wedge

Chapter 7. Properties and Behavior of Light

- Light is a form of? Energy
- Light travels in a? Straight line
- A object which produces and emits its own light is called? Luminous
- A object that does not produce light but it reflects light that comes from luminous object is called? Non-luminous
- · How many seconds does sun take to convert over 657 million tons of hydrogen into 653 million tons of helium? One second
- The missing 4 billion tons of mass are discharged into? Space
- How much heat and light does earth receive from four billion tons of mass? Two billionths
- When lights rays bounce back, it is called? Reflection
- Objects that allow light to travel through them are called? Transparent objects
- Objects that allow some light to travel through them are called? Translucent objects
- Objects that do not allow light to travel through them are called? Opaque objects
- Speed of light in a vacuum is? 300 million meters per second
- When light is blocked by opaque objects, what is formed on opposite side of object? Shadow
- Solar eclipse occurs when moon is between? Earth and sun
- Lunar eclipse occurs when earth is between? Moon and sun
- How many phases of moon are there? Eight
- The phase of New Moon is called? Waxing Crescent Moon
- Last phase of moon when it disappears is called? Waning Crescent Moon

Chapter 8. Electricity and magnetism

- Flow of negative electric charges through an electronic path is called? Electric current
- What things are used to draw a circuit diagram? Symbols
- A safety device used in circuit to protect the appliances and its wiring from damage is called? Fuse
- What is the inside the fuse? Wire
- Wire of fuses stops the flow of? Current
- A fuse can also be called as a? Circuit breaker
- Electrons of atom revolve outside the? Nucleus
- Protons and neutrons are present inside the? Nucleus
- Protons and neutrons are made up of? Quarks
- Electron was discovered by? J. J Thomas in 1897
- Proton was discovered by? Ernest Rutherford in 1920
- Neutron was discovered by? James Chadwick in 1932.
- What happens when oppositely charged clouds interact with each other? Lightening
- Who were the discovers of magnetite? Chinese
- Who is father of magnet? William Gilbert
- Electromagnetic has a? Temporary magnetic field Bar magnet has a? Permanent magnetic field
- Electromagnetic always needs? Electricity
- What happens when two opposite poles of magnets are brought close to each other?
 They attract
- . What happens when balloons are rubbed with the wool cloth? They will repel each other
- The buildup of electric charges is called? Static electricity

Chapter 9. Soils

- The surface layer of land is called? Soil
- The organic matter in soil is called? Humus
- Sandy, silty, clay and loam are the types of? Soil
- A soil which is mixture of sand, silt and clay is referred as? Loam
- A process which soil is displaced from the earth surface by agents is called? Erosion
- A process in which a dead organism is broken down into simple nutrients is called?
 Decomposition

Chapter 10. Our Solar System

- Which is national space of Pakistan? SUPARCO
- SUPARCO stands for? Pakistan Space and Upper Atmosphere Research Commission
- Sun weighs as much as? 330,000 earths
- How many earths can fit inside the sun? 1,300,000
- How many earths can be equal to sun in terms of size? 109 earths
- What is distance between sun and earth? 150 million km
- What is age of sun? 4.5 billion years
- Closest planet to sun is? Mercury
- Smallest planet in solar system is? Mercury
- Mercury is mostly made up of? Iron
- Brightest and hottest planet in solar system is? Venus
- Which is sister planet of earth? Venus
- Which is the biggest of all the terrestrial planet? Earth
- Which planet is called red planet? Mars
- How many moons does mars has? Two
- Name of moons of mars are? Deimos and Phobos
- Largest planet in solar system is? Jupiter
- Name the biggest moon of Jupiter? Ganymede
- Ganymede was discovered by? Galileo
- Which is least dense planet of solar system? Saturn
- Most well-known moon of Saturn is? Titan
- Which is second largest moon in solar system? Titan
- Which is known as green planet? Uranus
- How many moons does Uranus have? 27
- The largest moon of Uranus is? Titania
- Which is farthest planet from sun? Neptune
- How many rings of Neptune are there? Six
- How many moons does Neptune have? 13
- Meteoroids are known as? Shooting stars
- Asteroids are found between? Mars and Jupiter
- Asteroids are sometimes called? Planetoids
- Vesta is an example of? Asteroid
- Comets are bodies made up of? Ice, dust and rock
- Comets are also known as? Dirty snowballs
- Center of comet is known as? Nucleus
- Which bodies produce a long tail due to the heat from the sun? Comets

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- . The longest volcano of solar system "Olympus Mons" lies in? Mars
- . How many minutes does light of sun take to reach the earth? 8 minutes

*****Class SIX...... *****

Chapter 1. Cellular Organization of Plants and Animals

- Which part of microscope contains the lens? Eyepiece
- Which part of microscope magnifies the image of the object for the observer? Eyepiece
- Eyepiece is also called as? Ocular lens
- A tube that extends from eyepiece to the objective lens is called? Body tube
- Which part of microscope revolves the circular structure containing the objective lens? Nosepiece
- Which part of microscope receives light from object to form a magnified image?
 Objective Lens
- Which object holds the microscope? Arm
- Which part supports the microscope slide? Stage
- Which part of microscope provides light? Light source
- Which part controls the amount of light entering the objective lens? Diaphragm
- Which part supports microscope in a stable position? Base
- Who discovered the cell in 1665? Robert Hooke
- Which is basic unit and building block of life? Cell

Animal Cell

- A thin partially preamble fayer around the animal cell which controls the substances that enter and exit is called? Cell Membrane
- A jelly like substance which contains all the cell organelles is called? Cytoplasm
- Many chemical reactions occur in which area of? Cytoplasm
- Which part of cell controls all the chemical reactions of the cell? Nucleus
- Which part of cell contains DNA and other genetic materials? Nucleus
- Nucleolus, nucleosomes and chromatins are present in? Nucleus
- Nucleus of animal cell is surrounded by? Nuclear Membrane
- Nuclear Membrane is also referred to as? Nuclear envelope
- Thread-like materials that are passed down from parents to their offspring are called? Chromosomes
- Chemical instructions are stored by? Chromosomes

- A flat sac-like organelle located near nucleus and involved in manufacturing, storing, packing and transporting the particles throughout the cell is called? Golgi apparatus
- Power house of cell is called? Mitochondria
- An organ of cell that stores water, food and wastes is called? Vacuole

Plant Cell

- Plant cells also consist of? Cell Membrane
- Cell wall is absent in animal cell but present in? Plant cell
- · Cell wall of plant cell is found outer the? Cell Membrane
- Cell wall of plant cell is made up of? Cellulose
- Which organelle of plant cell forms the biggest part of the cell? Large Vacuole
- Tiny discs present in plant cell are called? Chloroplast
- Chloroplasts contain? Chlorophyll
- Plant cells have three extra following components? A vacuole, Chloroplast and Cell wall
- Which cells have a definite shape because of their tigld cell wall? Plant Cells
- Which cells have only one large vacuole? Plant Cell.
- Microorganisms usually contain of how many cells? Single Cell
- Paramecium and Amoeba are? Unicellular Animals
- Chlamydomonas and Euglena are? Unicellular Plants
- A group of cell doing the same function forms a? Tissue
- Which tissues bring movement in an animal's body? Muscle Tissue
- Which tissues protect all of body surfaces? Epithelial Tissues
- Epithelial and Muscle tissues are tissues of? Animals
- Which tissues protect a plant from injury and prevent it from dying? Epidermal Tissues
- Which tissues make food for the plant through photosynthesis? Photosynthetic Tissues
- Different tissues that perform the same function form an? Organ.
- Which organ of human body stores the digested food? Liver
- Which organs of human body purify the blood? Lungs
- Food factory of plants are referred to as? Leaves
- Which part transports food from the leaves to all other parts of the plant? Stem
- Whilch parts absorb the water with dissolved minerals from the soil? Roots
- Which parts help in reproduction of the plant? Flowers
- Several organs carrying out the same function form a? System
- The whole plant is divided into two main systems namely? Root system and shoot system.
- Which system involves those parts that grow below the soil? Root system
- Which system involves those parts that grow above the soil? Shoot system
- Different systems in a body make up an? Organism

Chapter 2. Sense Organs

- · How many sense organs do human beings have? Five
- . The different parts of the eye work to form an? Image
- The clear outer layer at the front of the eye is called? Cornea
- The white part of the eye is called? Sclera
- . The colored part of the eye is called? Iris
- Iris has central opening which allows the light to enter the eye is called? Pupil
- . The black dot at the center of the eye is called? Pupil
- · What does lie behind the iris? Lens
- . Single point where all light rays entering the eye meet is called? Lens
- Which is known as the screen of the eye? Retina
- · All light rays at lens move to? Retina
- . How many types of light does retina have? Two (Rods and Cories)
- Nerve that transfers the visual information from the retina to the brain is called? Optic
 Nerve
- Optic nerve is made up of thousands of? Sensory Neurons
- When person's vision is impaired, which part of eye does not work properly? Lens
- How many parts of ear are there? Three (outer, middle and inner)
- Which part of ear collects sound? Outer ear.
- . Outer ear is also referred to as? Pinna
- Ear canal is present in? Outer ear
- · Which part of outer ear transfers sound to middle ear? Auditory canal
- Ear drum is present in? Middle ear
- Which part of middle ear converts sound waves into mechanical vibrations? Ear drum
- How many bones of middle ear? Three (Malleus, incus and stapes)
- Three bones of middle ear together called? Ossicles
- . The main function of Ossicles is to increase the? Sound Pressure
- Inner ear is mostly made up of? Liquid
- · Cochlea is present in? Inner ear
- Which nerves carry sound information from Cochlea of the inner ear to the brain?
 Cochlea (Auditory) nerves
- The inside of the nose is a cavity called? Nasal cavity
- Special receptors that are sensitive to odour molecules are located at? Roof of the Nasal Cavity
- Which is part of brain that receives signals from odour receptors? Olfactory bulb
- How many tests tongue receptors can smell? Four
- The tongue is a? Muscular organ
- The rough structure of the tongue is due to structures called? Papillae
- Taste buds containing taste receptors are present between the? Papillae

- Which nerves carry an electrical signal from taste receptors to the brain? Sensory nerves
- Outer layer of skin is called? Epidermis
- Second layer of skin is called? Dermis
- Which is third layer of skin? Hypodermis
- Which layer can sense pain, heat and cold? Hypoderms
- Which layer is sensitive to light and touch? Hypodermis
- Sense receptors are present in? Hypodermis
- Skin receptors are connected to the brain via? Sensory neurons

Chapter 3. Photosynthesis and Respiration in Plant

- Stalk between leaf and branch is called? Leaf stalk
- What divides the leaf into two parts? Mid rib
- Flat part of leaf is called? Lamina
- Upper layer of leaf is? Waxy (waterproof)
- Upper skin of leaf contains? Chloroplast
- What is present in chloroplast? Chlorophyll
- Leaves of plants are also called? Food factories
- Lower skin of leaf has more pores called? Stomata
- Exchange of gases takes place in? Stomata
- Leaf veins are full of tubes which transport water and food from and to the? Leaf
- What is meaning of "synthesis"? Putting together
- Which part of cell allows carbon dioxide and water to react? Chlorophyll
- Reaction in Chlorophyll takes place between? Carbon dioxide and water
- The products of the reaction between carbon dioxide and water are? Glucose and oxygen
- Which is useful product for plants? Glucose
- Which gas is transported out of the leaf into the air? Oxygen
- Photosynthesis is a? Chemical reaction
- What is the photosynthesis equation in plant? 6CO2 + 6H2O + C6 H12 O6 + 6O2
- What is chemical formula of carbon do-oxide? CO2
- What is chemical formula of water? H2O
- What is chemical formula of glucose? C6 H12 O6
- What is chemical formula of oxygen? 02
- What is the respiration equation in plant? C6 H12 O6 + 602 + 6CO2 + 6H2O

Chapter 4. Environment and Interactions

- Living things in an environment are called? Biotic components
- How many types of biotic component are there? Three
- Name the three biotic components? Producers, consumers and decomposers

- The green plants, algae and some bacteria are called? Producers
- The animals that get their food by eating plants and other animals are called? Consumers
- The animals that only eat plants are called? Primary consumers
- The animals that that eat primary consumers are called? Secondary consumers
- The small animals that feed on dead bodies of plants and animals are called? Decomposers
- Non-living components surrounding the environment are called? Abiotic components
- How much earth's surface is covered by forests? 6%
- The community of biotic and abiotic components and their interactions for survival make up an? Ecosystem
- The study of the relationship between biotic and abiotic factors in environment is called? Ecology
- How many kinds of interactions between organisms are there? Three
- Name the three interactions between organisms? Parasitism, predator-prey and
- The organism which feeds in and lives on part of another organism (host) is called? Parasitism
- Mosquito is an example of? Parasite
- When predator feed directly on another living organism is called? Predator-prey
- Lion is an example of? Predator-prey
- When two organisms interact in such ways that benefits both is called? Mutualism
- Tapeworms are? Parasites
- Which is integral part of ecosystem? Carbon

Chapter 5. Atoms, Molecules, Mixture and Compounds

- Elements are made up of? Atoms
- Which is the simplest element? Hydrogen
- Most common element found on earth is? Oxygen
- Two are more atoms combine together to form? Molecule
- Two atoms of hydrogen element and one atom of oxygen form? Water
- Which is the simplest particle of compound and is made up of groups of atoms? Molecule
- How many elements are there in nature? 120
- Which are the simplest form of substance? Element
- All elements are represented by a? Symbol
- What is the symbol of element Hydrogen? H
- What is the symbol of element Helium? He
- What is the symbol of element carbon? C

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- What is the symbol of element Nitrogen? N
- What is the symbol of element Oxygen? O
- What is the symbol of element Fluorine? F
- What is the symbol of element Calcium? Ca
- What is the symbol of element Sulphur? 5
- What is the symbol of element Phosphorous? P
- What is the symbol of element Aluminum? Al
- What is the symbol of element Magnesium? Mg
- What is the symbol of element Iron? Fe
- What is the symbol of element Neon? Ne
- What is the symbol of element Sodium? Na
- What is the symbol of element Chlorine? Cl
- Which gas is used in advertisement balloons? Hydrogen
- Which are two important groups of elements on earth? Metals and Non-metals
- Metals are usually? Solid
- Non-metals are often? Gaseous
- Which have high point of melting and boiling? Metals.
- Which have low point of melting and boiling? Non-metals
- Which are good conductor of heat and electricity? Metals
- Which are poor conductor of heat and electricity? Non-metals
- What are formed by combination of two or more elements? Compounds
- Water is an example of? Compound (hydrogen and oxygen)
- Common salt is chemical combination of? Sodium and chlorine (NaCl)
- Washing soda is compound of? Carbon and Oxygen
- Combination of substances which is not combined chemically called? Mixture
- A mixture can be separated into components by? Physical methods
- A compound can be broken down into its components by? Chemical method
- Components of mixture are not mixed in? Fixed ratio
- Components of compound are mixed in a? Fixed ratio
- Air is a mixture of? Gases
- How much percentage nitrogen is present in air? 78%
- How much percentage oxygen is present in air? 21%
- How much percentage carbon di-oxide is present in air? 0.037
- Steel made of iron and carbon is an example of? Mixture
- A process of separating insoluble solids from a mixture is called? Filtration
- A process of separating a salt solution to obtain crystal is called? Crystallization
- Which process is used to get back the solid substances from a solution? Crystallization
- A process in which liquid is purified is called? Distillation
- A process in which solid is purified is called? Sublimation

- A method that is used to separate coloured chemicals or substances is called? Paper Chromatography
- Carbon dioxide consists of how many atoms of carbon? One
- Carbon dioxide consists of how many atoms of oxygen? Two
- Chemical formula of carbon d-oxide is? CO2

Chapter 6. Air

- Who discovered oxygen in 1774? Joseph Priestley
- Excessive heat from sun is prevented by? Ozone
- What is percentage of oxygen in air? 21%
- Which gas is found in the greatest amount in air? Nitrogen
- Which gas is found in the greatest amount in universe? Hydrogen
- What plants absorb from air and make their food? Carbon dioxide
- A process of burning is called? Combustion
- Which gas is required for combustion? Oxygen
- Excessive carbon do-oxide causes? Global warming
- What is old name of Nitrogen? Azote (without life)
- Moving air is called? Wind
- What happens when oil is burnt? Carbon dioxide and energy will be released

Chapter 7. Solution and Suspensions

- A process in which two components are mixed and form? Solution
- How many components of solution are there? Two (Solute and solvent)
- A component of solution which gets dissolved is called? Solute
- A component of solution that dissolves the solute is called? Solvent
- Pure water is called? Universal solvent
- When solutions use water as a solvent, it is called? Aqueous solution
- Solution is always? Transparent
- If the ratio of solute to solvent is high, the solution is said to be? Concentrated solution
- If the ratio of solute to solvent is low, the solution is said to be? Dilute solution
- A solution that cannot dissolve any more solute in it, at a given temperature is called? Saturated solution
- A solution that can dissolve solute at a given temperature is called? Un-saturated
- Mixtures in which solute particles are larger and remain suspended in the solvent are called? Suspensions
- Muddy water is an example of a? Suspension
- A solution is a? Homogenous mixture
- A solution is a? Heterogeneous mixture

- The suspension is a? Opaque
- The solubility of a solute substance increases? As liquid heats up

Chapter 8. Energy and its Forms

- Energy is measured in? Joules (J)
- Stored form of energy in any object is called? Potential energy
- Which form of energy is dependent upon the mass of the object and height of object above ground? Potential energy
- A form of energy which comes from motion is called? Kinetic energy
- Which form of energy is dependent upon the mass of the object and the speed at which it travels? Kinetic energy
- A form of energy which is the flow of negatively charged electrons in the electric circuit is called? Electrical energy
- A form of energy formed by vibration of particles is called? Sound energy
- A form of energy which is received from heat is called? Thermal energy
- Who was first person to state the law of conversion of energy? Julius Mayer in 1842.
- The machines that convert one form of energy to another are called? Energy converters
- Energy sources that can only be used once in life time and cannot be replenished are called? Non-renewable sources
- Fossils fuels are example of? Non-renewable sources
- Energy sources that can be constantly replenished are called? Renewable sources
- Water, solar and wind are example of? Renewable sources

Chapter 9. Forces and Machines

- A pulley is a type of? Simple machine
- When a pulley is banged to a fixed support, it is called? Fixed pulley
- When a pulley is free to move up and down along with the load, it is called? Movable pulley
- Double pulley system consists of two? Pulleys
- Two or more pulley reduces the amount of? Effort
- Wheel and axles are example of? Simple machine
- Gears are also important? Simple machines
- Gear sometimes is called a? Cog
- Area where two gears meet each other is called? Meshed area
- Bottle opener is an example of? Lever
- Seesaw is an example of? Lever
- A car steering is an example of? Wheel and axle
- Knife is an example of? Wedge
- A movable pulley can? Increase the input force
- Flags use? Moveable pulleys

Chapter 10. Properties of Light

- When a ray of light reflects off a surface, the angle of incidence is equal to the angle of reflection is called? Law of reflection
- A mirror which has a reflecting surface that curves inwards is called? Concave mirror
- Which mirrors are uses in vehicles? Concave mirror
- A mirror which has a reflecting surface that bulges outwards is called? Convex mirror
- Dentist mirror is which type of mirror? Concave mirrors
- Which mirrors are used as security mirrors? Convex mirrors
- Which mirrors have wider viewpoint of smaller space? Convex mirrors

Chapter 11. Investing Sound

- A region in a longitudinal wave where the air particles are closest together is called? Compression
- A region on a longitudinal wave where the air particles are furthest apart is called? Rarefaction
- Who was first to measure the speed of sound? Marin Mersenne
- What is speed of sound in air? 332 m/s
- Speed of sound is maximum in? Gold (diamond)
- The sensation of sound persists in human brain for about? 0.1s

Chapter 12. Space and Satellites

- The vacant area that exists between all celestial objectives of the universe is called? **Space**
- Study of celestial bodies in the universe is called? Astronomy
- How many types of satellites are there? Two (natural and artificial)
- How many known natural satellites are there in our solar system? 173
- Natural satellites of planets are called? Mons
- When comet was first observed? 240 BC
- Artificial satellites are monitored by setups called? Ground stations
- National Aeronautics and Space Agency (NASA) is space agency of? USA (1958)
- Russian Federal Space Agency (RKA) is space agency of? Russia (1992)
- China National Space Administration (CNSA) is space agency of? China (1993)
- National Center for Space Studies (CNES) is space agency of? France (1961)
- Japan Aerospace Exploration Agency (JAXA) is space agency of? Japan (2003)
- Indian Space Research Organization (ISRO) is space agency of? India (1969)

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- Space and Upper Atmosphere Research Commission (SUPAROC) is space agency of? Pakistan (1961)
- Korea Aerospace Research Institute (KARI) is space agency of? South Korea (1989)
- European Space Agency (ESA) is space agency of? Europe (1975)
- HST is a scientific satellite which stands for? Hubble Space Telescope
- ISS is a scientific satellite which stands for? International Space Station
- GPS is a navigation satellite which stands for? Global Positioning System
- GIS stands for? Geographic Information Systems
- AIU stands for? International Astronomical Unit
- CMB stands for? Cosmic Microwave Background
- COBE stands for? Cosmic Background Explorer
- Which theory describes the origin of the universe? Big Bang
- Who gave the Big Bang theory? George Lemaitre
- Which is fastest thing in universe? Light
- Light year is a unit of? Distance
- Classification of galaxies based on their shapes is called? Hubble Sequence
- Which instrument gathers light from distant sources in such a way that an image can be produced? Telescope

***** Class SEVEN

Chapter 1. Human Organ Systems

- The process of breaking down food into simple molecules is called? Digestion
- How many steps of digestion are there? Five
- How many groups of organs compose the digestive system? Two
- Which two groups of organs compose the digestive system? Alimentary canal and Accessory digestive organs
- Canal that extends from mouth to the anus is the? Alimentary canal
- Length of canal tract from mouth to anus is? Seven meters
- Mouth, pharynx, oesophagus, stomach, small intestine, large intestine and anus consists of? Alimentary canal
- Teeth, liver, gall bladder and pancreas are included in? Accessory digestive organs
- Organ in which both chemical and physical digestion takes place is? Mouth
- Liquid of the mouth is called? Saliva
- Saliva contains the? Enzymes
- When food is reduced to semi-solid food in mouth, it is called? Bolus
- Food is moved from mouth to? Oesophagus (Food pipe)
- Pharynx is a muscular organ that connects? Mouth to Oesophagus
- Oesophagus transports the food from pharynx to the? Stomach

- What is shape of stomach? J-shape
- What is released from walls of stomach? Gastric juice
- Gastric juice released from stomach walls contains of? Hydrochloric acid (HCL), water and enzyme
- Large protein molecules are converted into small protein molecules by? Enzymes
- Food is softened and germs are killed by? Hydrochloric acid
- Chemical digestion of protein is started by? Gastric juice
- Bolus is converted into food called? Chyme
- After many hours (6-8) stomach empties its contents into the? Small intestine
- What is average length of small intestine? Six meters
- Bile is secreted by? Liver
- When Chyme enters in small intestine, it receives pancreatic juicefrom? Pancreas
- Which part of liver stores the bile? Gall bladder
- Which thing breaks down large sized fats into smaller pieces so that fats can be digested faster by enzymes? Bile
- Pancreatic juice is secreted by? Pancreas
- Pancreatic juice is consisted of? Enzymes
- All proteins, fats and carbohydrates are digested in small intestine by? Enzymes
- Small protein molecules are broken down into? Amino aids
- Semi-carbohydrates are converted into? Sugars
- Fats are broken down into? Fatty acids
- Last part of small intestine is called? Vill
- Digested components of food are diffused through the walls of small intestine into the? **Blood stream**
- The process through which walls of small intestine diffuse digested food into blood streams is called? Absorption
- Absorption only occurs in? Small intestine
- Glucose is used in? Respiration process
- Amino acids and fatty acids are used in the formation and growth of? Cells
- The undigested components of food move from small intestine to last part of digestive system called? Large intestine
- Which things are absorbed in large intestine? Water and mineral salts
- Large intestine contains finger like projection called? Appendix
- All non-diffusible components of food move from large intestine to? Rectum
- Undigested food is converted into faeces in? Rectum
- Faeces are removed from the body by an opening called? Anus
- What are the disorders of digestive system? Constipation, Diarrhea, Ulcer, Obesity
- Fast downwards rhythmic action of digestive tract is called? Diarrhea
- Slow downwards rhythmic action of digestive tract is called? Constipation
- The disorder when energy input is greater that energy used is called? Obesity

- A process in which human beings inhale air through nose is called? Breathing
- A biochemical process during which carbohydrates are broken down to release energy is called? Respiration
- Breathing is a? Physical process
- The Taking in of oxygen is called? Inhalation
- The giving out of carbon dioxide is called? Exhalation
- Nose consists of how many nostrils? Two
- Mucus is secreted by? Mucus glands
- The air from nose passes through the pharynx into the? Trachea
- Where does larynx (Sound box) lie? Neck
- Trachea is supported by incomplete? Cartilaginous rings
- Trachea divides into two parts before lungs called? Bronchi
- Each bronchi enters the lungs into small? Bronchioles
- The bronchioles open in the air sacs called? Alveoli
- How many million alveoli are there in lungs? Seven million alveoli
- Oxygen from atmosphere comes inside the? Alveoli
- Alveoli are surrounded by? Blood capillaries
- The oxygen from alveoli diffuses in? Blood capillaries
- Carbon dioxide from the blood capillaries diffuse in? Alveoli
- Blood transports the oxygen to the? Cells
- Which membrane separates the lungs from abdominal cavity? Diaphragm
- Name the disorders of respiratory tract? Asthma, TB, Pneumonia, cough, common cold
- Which is infectious bacterial disease? Tuberculosis
- T.B is causes by? Mycobacterium
- Which is inherited disease of respiratory tract? Asthma

Chapter 2. Transport System in Human and Plants

- Which system involves the circulation of blood? Circulatory system
- The supply of food, water, oxygen and collection of waste materials is called? Transportation
- How many kinds of blood vessels are there in human being? Three (Arteries, capillaries and veins)
- The blood vessels that carry blood from heart to other parts of the body are called? Arteries
- The largest artery in human body is? Aorta
- The blood vessels that carry blood from other parts of body to the heart are called? Capillaries
- The blood vessels that carry deoxygenated blood towards the heart are called? Veins
- Which is the only single vein that carries oxygenated blood? Pulmonary vein
- Fluid part of the blood is called? Plasma

- River of life is called? Blood
- Blood bank in the body is? Spleen
- Blood pressure is measured by? Sphygmomanometer
- Which organ is located between lungs and behind the sternum? Heart
- Which organ pumps the blood? Heart
- In how many chambers the heart is divided? Four
- Which side of heart receives deoxygenated blood from all parts of body? Right side
- Right side of heart pumps the deoxygenated blood towards the? Lungs
- Which part of heart receives oxygenated blood from lungs and pumps it to other parts of body? Left side
- The two upper chambers receive blood through veins are called? Atria
- The two lower receive blood through atria are called? Ventricles
- Which cava collects blood from upper parts of the body? Superior vena cava
- Which cava collects blood from lower parts of the body? Inferior vena cava
- Which atrium receives deoxygenated blood form superior and inferior vena cava? Right atrium
- Which atrium receives oxygenated blood from lungs through pulmonary vein? Left atrium
- How many valves are found in human heart? Four
- Two valves are present between? Atria and ventricles
- Two valves are present between? Ventricles and arteries
- From where circulation of blood starts? Right side of heart
- Which are the disorders of the respiratory tract? Angina, heart attack, hypertension, hypotension,
- Hypertension is known as? High blood pressure
- Hypotension is known as? Low blood pressure
- Main reason of heart attackis? Cholesterol
- Who is considered father of heart transplantation? Norman Shumway
- The transport system in plants consists of? Xylem and phloem
- Which part transports water and mineral from roots to the leaves via the stem? Xylem
- Which part transports sugar produced in the leaves to all parts of plants? Phloem
- In roots, water absorption take place through the? Root hairs
- Water enters the root hair by? Osmosis
- A force that is involved in movement in water and dissolved minerals up in the xylem is called? Root pressure
- Which is the movement of food materials from leaves to other tissues throughout the plant? Translocation

Chapter 3. Reproduction in Plants

- Flowering plants are called? Angiosperms
- Non-flowering plants are called? Gymnosperms

- The transfer of pollen grains from another of a flower to the stigma of the same of another flower is called? Pollination
- How many kinds of pollination are there? Two (Self-pollination and cross pollination)
- Pollination in which one plant and flower is involved is called? Self-pollination
- Pollination in which more than one plant two flowers are involved is called? Crosspollination
- Varieties of plants are produced in? Cross-pollination
- What are the agents of cross-pollination? Water, wind, insects and animals
- How many methods of reproduction are there in plants? Two (Sexual and asexual)
- . When sex cells (male and female) are involved in the production of offspring, then this type of reproduction is called? Sexual reproduction
- When sex cells (male and female) are not involved in the production of offspring, then this type of reproduction is called? Asexual reproduction
- Roots, stem and leaves also produce their offspring through? Asexual reproduction
- Which is important process of sexual reproduction? Fertilization
- The process in which fusion of male and female cells occur to develop a new plant is called? Fertilization
- When pollen grains are converted into sperm sex cells, what is formed? Pollen tube
- Trough pollen tube sperm cells transfer from stigma to? Ovary
- What is present in ovules? Egg sex cell
- When sperms fuse with the egg cells, what is formed? Zygote
- Zygote undergoes repetitive cell division and develops into? Embryo
- Embryo is present in? Ovule
- Ovule enlarges and develops into? Seed
- Ovary enlarges and develops into? Fruit

Chapter 4. Environment and Feeding Prelateships

- A place in water or at land where biotic and abiotic components interact with each other called? Ecosystem
- An ecological are in which species of animals, plants and all types of organisms live called? Habitat
- How many types of habitat are there according to its physical characteristics? Two (Aguatic land and terrestrial land)
- Examples of aquatic habitat are? Lakes, ponds, rivers, streams and sea
- Examples of terrestrial habitat are? Forest, grass land, desert and tundra
- How many types of grass Lands are there? Two (Temperate and tropical)
- Areas below ice caps which are very cold regions are called? Tundra
- Polar bear, Arctic foxes, Snowy owl are inhabitant of? Tundra

- Condition when animals have prosperity to change their colour according to their surrounding in order to hide from enemies is called? Camouflage
- Which condition takes place on seasonal basis? Migration
- Winter sleep that helps animals to save energy and survive in winter is called? Hibernation
- Conditions in which animals slow their activity in hot and dry summer months is called? Aestivation
- Conditions that help animals to survive with environmental changes are called? Body coverings
- Most organisms are active at temperatures between? O centigrade and 45 centigrade
- The transfer of energy by eating is called? Food chain
- Food chain has? Blotic factors
- Food chain starts from? Producers
- Food chains are linked together to form a complex network called? Food web

Chapter 5. Water

- How much percentage of fresh water is used for crop irrigation? 70% (Pakistan 93%)
- How much percentage of fresh water is used in industries? 20% (Pakistan 5%)
- How much percentage of fresh water is used in domestic houses? 10% (Pakistan 2%)
- A way used to remove dissolved physical and chemical impurities from water is called? Distillation
- RO stands for? Reverse Osmosis.

Chapter 6. Structure of an Atom

- Neutrons and protons are present in? Nucleus
- How many times protons are heavier than electron? 1836
- Neutron and proton are collectively known as? Nucleons
- Where electrons are arranged in cell? Shells around the nucleus
- Which subatomic particles revolve around nucleus? Electron
- The specific number of protons present in the nucleus of every atom is called? Atomic number
- Atomic number is represented by which symbol? Z
- The sum of protons and neutrons in the nucleus of atom is called? Mass number
- Mass number is represented by? A
- What is atomic number of carbon atom? 6
- How many protons does carbon atom have? Six
- How many neutrons does carbon atom have? Six
- What is the mass number of carbon atom? 12.
- Who is father of modern periodic table? Dmitri Mendeleev (1869)
- Dimitri Mendeleev was basically? Russian

- How many groups are there in periodic table? 18
- . The elements in a group have the same number of? Electrons
- . How many total elements are there in periodic table? 118
- How many metals are there in periodic table? 95
- How many non-metals are there in periodic table? 17
- How many metalloids are there in periodic table? 6
- The number shown above the symbol of element is called? Atomic number
- The number shown below the symbol of element is called? Mass number
- Power of combining of an atom with other atoms to form molecules or compounds is called? Valency
- The tendency to gain or loss an electron is also called? Valency
- The first orbit which is closest to nucleus is called? K shell
- The second orbit around nucleus is called? L shell
- . The third orbit around nucleus is called? M shell
- Atoms of the same element which have same atomic number but different atomic mass are called? Isotopes
- Isotopes are represented by the symbol? X
- How many isotopes does hydrogen have? Three
- Atom that carries net electric due to loss or gain of electron is called? Ion
- Atoms which loss electron will become positively charged ion and are known as? Captions
- Atoms which gain electron will become negatively charged and are known as? Anions
- · What is formed when two or more atoms join together chemically? Molecules
- A molecule that contains atoms of at least two different elements is called? Compound
- Water, carbon dioxide and methane are example of? Compounds
- Which compound is composed of two atoms of hydrogen and one atom of oxygen?
 Water

Chapter 7. Physical and Chemical Changes

- How many types of changes in material are there? Two (physical and chemical)
- Change in physical appearance or state of a substance is called? Physical change
- A change in chemical composition of a substance is called? Chemical change
- Chemical fertilizers, banastpati ghee and plastics are products of? Chemical changes
- Newsubstances are formed with different properties through? Chemical changes
- Burning of fuel is an example of? Chemical change
- Compounds made up of hydrogen and carbons are called? Hydrocarbons
- Organic compounds are the compounds of? Carbon
- Simplest hydrocarbon is? Methane
- Fuel, petrol, furnace oil and Sui gas are example of? Hydrocarbons
- Burning of any hydrocarbon is? Chemical change

- During chemical change, energy is produced in the form of? Heat and light
- Chemical process which changes vegetable oil into fat is called? Hydrogenation
- Polymers are made up of small identical molecules called? Monomers Plastics are? Polymers

Chapter 8. Transmission of Heat

- The motion of atoms and molecules results in the formation of energy called? Heat energy
- Ways in which heat is transferred from one place to another are called? Modes of heat transmission
- How many modes of head transmission are there? Three (Conduction, Convention, Radiation)
- Transfer of internal energy by collision of particles and movements of electrons within the body is called? Heat conduction
- The microscopic particles in the heat conduction can be? Molecules, atoms and electrons
- Kinematic and potential energy are jointly known as? Internal energy
- Heat conduction only occurs in? Solids
- Conduction transfers heat from high temperature to? Lower temperature
- The solids that conduct heat are called? Good conductors of heat
- The solids that do not conduct heat are called? Bad conductors of heat (insulators)
- Which is considered the best conductor of heat? Copper
- A mode of heat transfer that occurs by the mass motion of a fluid is called? Heat convention
- Heat convention only occurs in? Liquid and gases
- Convention occurs due to the movement of? Fluid molecules
- How many types of breezes occur along the coastal areas due to convention? Two
- Name the two types of breeze that occurs along the coastal areas due to convention? Land breeze and sea breeze
- A wind system characterized by a flow from land to water at nigh is called? Land breeze
- A wind system characterized by a flow from sea to land in day time is called? Sea breeze
- A continuous and directed movement of sea water generated by a number of forces is called? Ocean current
- Heat convention occurs between the? Water and air
- A transfer of heat through waves is called? Radiation
- To radiate means? To send out
- The heat received on earth from the sun is the result of? Radiation
- A special kind of bottle in which hot liquids remain hot and cold items remain cold for a long time is called? Vacuum Flask

Unit 9. Dispersion of Light

- Change in the speed and direction of light rays due to change of medium is called? Refraction of light
- The light travels fastest in? Vacuum
- How many laws of refraction of light are there? Two
- Laws of refraction are also called? Snell' laws
- Who discovered laws of refraction of light in 1621? Willebrord Snell
- The angle of incidence for which the angle of refraction is 900 is called? Critical angle
- Critical angle is denoted by? C
- What is the critical angle of water? 48.8
- The splitting of light into its constituent components is called? Dispersion of light
- Rainbow is the best example of? Spectrum of white light
- Rainbow is formed due to the? Refraction of light
- White light is composed of? Seven colors
- Primary colors of light are? Red, green and blue
- Ratio between the speed of light in vacuum and its speed in any other medium is called? Refractive index (n)

Chapter 10. Sound waves

- Waves having compressions and refractions with movements of particles parallel to the direction of wave propagation are called? Longitudinal waves
- Seismic and sound waves are example of? Longitudinal waves
- Waves having crests and troughs with movement of particles perpendicular to the direction of wave propagation are called? Transverse waves
- Radio and light waves are example of? Transverse waves
- In transverse wave, the distance between crests and troughs is called? Wavelength
- Distance between the rest position of moving particles to the top of crest and bottom of the trough is termed as? Amplitude
- The number of vibrations produced by a vibrating body in a second is called? Frequency Frequency is measured in? Hertz (Hz)
- The distance a sound wave covers in a unit of time is called? Speed
- Speed is measured in? Meter per second
- What is speed of sound in air? 343 m/s
- What is speed of sound in diamond? 12000 m/s
- The highness and lowness of the sound is called? Pitch
- High frequency of sound waves Results into? High-pitched
- Low frequency of sound waves results into? Low-pitched
- The degree of the sensation of sound produced in the human ear is called? Loudness

- Loudness depends on of the sound waves? Amplitude
- What is audible frequency range of human ear? 20 Hz to 20 kHz

Unit 11. Circuit and Electric Current

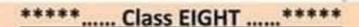
- The rate of flow of charge at certain point is called? Current Electric current is measured in? Amperes (a)
- How many types of electric current are there? Two
- Name the two electric currents? Series circuit and parallel circuit
- If all the components are connected one after another in a single loop, it is called? Series circuit
- Which circuit provides only one path for the flow of current? Series circuit
- If the components are connected in two or more loops, then it is called? Parallel circuit
- When Thomas Edison invented bulb? 1879
- The first power plant to distribute electricity in New York was developed by? Thomas Edison
- Difference of potential between two points in a circuit or battery is called? Voltage
- Potential difference (voltage) is measured in? Volts (V)
- The hindrance to the flow of current is called? Resistance
- Who discovered the relationship between voltage and resistance in 1827? George Simon Ohm
- Relationship between voltage and resistance has chemical equation: V=IR
- MCB stands for? Miniature Circuit Breakers
- ELCB stands for? Earth Leakage Circuit Breaker

Chapter 12. Investing the Space

- How many zeros are there in one billion? Nine
- Stars are made up of? Hydrogen and Helium
- The closest star to earth is sun, which is next closest star to earth? Alpha Centauri
- Which stars are the coolest stars? Red stars (3,000 C)
- Which stars are the hottest stars? Blue stars (25,000 C)
- Betelgeuse, Arcturus, Polaris and Vega are examples of? Stars
- A vast collection of stars, gas and dust which are bound together gravitationally as a unit is called? Galaxy
- Our solar system is a part of? Milky Way galaxy
- Major types of galaxies are? Elliptical, spiral, lenticular and irregular
- Milky Way galaxy and Andromeda galaxy are? Spiral galaxies
- How many light years the earth and sun are away from the center of Milky Way galaxy? 25, 000 light years
- How many years our solar system takes to orbit around Milky Way galaxy? 250 million years
- Nebulae are made up of? Hydrogen (97%) and Helium (3%)

SCIENCE CLASS 4TH TO 8TH MCQS (STBB) COMPOSED BY SHAKEEL AHMED

- The first phase of star is known as? Proto star (1000,000 years)
- The most stable part of star's life is? Main Sequence
- What is third and fourth phase of star? Red Giant and White Dwarf
- A region of space where matter has collapsed in on itself is called? Black hole
- Life Cycle of Star- Forming
 - 1. Nebula 2. Proto star 3. Main sequence
 - Massive star 5. Red giant 6. Supernova
 - 7. Black hole Constellations Groups of stars on sky total (88)



Chapter 1. Human Organ System

- Body system that controls and coordinates for the function of all other organ systems is called? Nervous System
- Which system links brain to every part of body? Nervous System
- Nervous system is divided into two types? Central Nervous System (CNS) and Peripheral Nervous System (PNS)
- Central Nervous System is composed of? Brain and Spinal Cord
- Peripheral Nervous System is composed of? Sensory nerves and Motor nerves
- Which are the basic functional units of nervous system? Neurons
- Brain is enclosed in a hard-bony projective structure called? Cranium (skull)
- How many parts of brain are there? Three
- Which is the largest part of the brain? Cerebrum (forebrain)
- How many hemispheres are there in cerebrum? Two
- Left side of the body is controlled by? Right hemisphere
- Right side of the body is controlled by? Left hemisphere
- Actions like thinking, feelings, memory, hearing, seeing, speech and decision making are controlled by? Cerebrum
- Thalamus lies inside the? Cerebrum
- Thalamus controls? Sensory functions
- . Which is the middle part of the brain? Mid Brain
- Mid brain consists of? Optic lobes
- Which is smallest part of brain? Midbrain
- The last part of the brain is called? Hind Brain
- How many parts of hindbrain are there? Three (pons, cerebellum and medulla)
- Which part of hindbrain controls the facial expressions, sleeping and breathing? Pons

SCIENCE CLASS 4TH TO 8TH MCQS (STBB) COMPOSED BY SHAKEEL AHMED

- Which part of hindbrain converts signals from the medulla to the higher parts of the brain? Pons
- Which part of hindbrain is responsible for coordinating voluntary movements? Cerebellum
- Which part lies below the cerebellum? Medulla Oblongata
- Blood pressure, heart beat, rate of respiratory movements and contraction and dilation of blood vessels are controlled by? Medulla Oblongata
- A long piece of nerve tissue that runs from the brain through the backbone within the vertebral columns is called? Spinal cord
- Which part receives sensory information from back parts of the body? Spinal cord
- Which part of brain connects the brain and the spinal cord? Medulla Oblongata
- Which system acts as lines of communication between central nervous system and rest of the body? Peripheral Nervous System
- How many types of nerves are there? Two
- Nerves that carry message from parts of body to brain are called? Sensory nerves
- Nervous that carry messages from brain to other parts of body are called? Motor nervous
- Which lobe is responsible higher thinking skills, planning, reasoning, movement, organizing and for many aspects of personality? Frontal lobe
- Which lobe is responsible for attention, language, recognition of shapes and colors? Parietal lobe
- Which lob is responsible for auditory information and short-term memory information? Temporal lobe
- Which lobe is responsible for visual information? Occipital lobe
- The quick action in which brain is not involved is called? Reflex action
- Which actions are performed according to our wishes? Voluntary actions
- Which part of brain is responsible for voluntary actions? Fore brain
- Which actions are performed without our wish and will? Involuntary actions
- Which part of brain is responsible for involuntary actions? Hindbrain
- The process of eliminating waste materials from the body is known as? Excretion
- Which four parts of body play role in eliminating waste material? Lungs, kidneys, liver and skin
- Two kidneys in human body are located below the? Abdominal region
- Which artery transports the blood to the kidneys? Renal artery
- Each kidney has about a million tiny units called? Nephrons
- In nephrons, a chemical exchange takes place between capillaries and urine-carrying tubes where waste material and water leave blood and enter? Urinary system
- Excess amino acids are converted into? Urea
- The process of filtering and cleaning the blood outside the body is called? Dialysis
- SIUT stands for? Sindh Institute of Urology and Transplant

- When a single compound breaks down into two or more simpler substances, the process is called? Decomposition reaction
- Reactions in which heat energy is absorbed or added are called? Endothermic reactions
- Reactions in which heat energy is released off are called? Exothermic reactions
- Combustion, neutralization and respiration are examples of? Exothermic reactions

Chapter 6. Acids, Alkalis and Salts

- The term acid is derived from Latin word? Acere (sour)
- Who defined acids in 1903? August Arrhenius
- Those substances which produce hydrogen ion (H) in the aqueous solution are called? Acids
- Those substances which produce hydroxyl ion (OH) in the aqueous solution are called? Bases
- All alkalis are bases but all bases are not? Alkalis
- Process in which acid is mixed with base and resulting solution is neutral is called? Neutralization
- Which is the main product of neutralization? H20
- Which are sour in taste? Acids
- Which are bitter in taste? Bases
- Tartaric, critic, lactice and ascorbic are basically? Natural acids
- Calcium hydroxide, sodium hydroxide, ammonium hydroxide and magnesium are prepared in? Laboratory
- Which acid is used to make carbonated drinks? Carbonic acid
- The scale to measure acidity and alkalinity of a solution is called? pH
- pH scale ranges between? 1-14
- What is pH scale of lemon juice? 2
- What is pH scale of rain water? 5
- What is pH scale of milk? 6
- What is pH scale of pure water? 7 (neutral)
- What is pH scale of bleach? 13
- What is pH scale of sodium hydroxide? 14

Chapter 7. Force and Pressure

- Force per unit area is called? Pressure
- How a pressure is calculated in formula? Pressure= ---force (upon) area (below)
- Pressure depends on which two factors? Forces acting and surface of area
- The larger the force, the greater will be its? Pressure
- The smaller the surface area, the greater will be? Pressure
- In pressure, force is expresses in? Newtons (N)
- In pressure, area is expressed in? Square maters

- In which cell the complete hereditary material is stored? Zygote
- Who is the pioneer among genetics? Gregory Mendel

Chapter 3. Biotechnology

- Science that deals with the use of microorganisms, animal cell and plant cells to produce useful products for human is called? Biotechnology
- The process of making copies of DNA molecules within the cell nucleus is called? DNA replication
- DNA replication is a? Biological process
- Insulin produced by bio-technology is being uses to treat? Diabetics [
- Process of changing the genetic coding of an organism by inserting or replacing a Section of a gene with the new one is called? Genetic engineering
- Which organism is used in genetic engineering? Bacteria

Chapter 4. Pollution and their Effects on Environment

- What is chemical formula of Sulphur Acid? H2SQ4
- Asthmatic attacks are due to excess of? Sulphur acid
- What is chemical formula of Carbon monoxide? CO
- Carbon monoxide can lead to? Cardiovascular diseases
- What is chemical formula of nitrous oxide? N2O
- Nitrous oxide can lead to which diseases? Respiratory and lung diseases
- Which gas is the major cause of ozone depletion? Chlorofluorocarbon (CFC)
- Which is major greenhouse gas? Carbon dioxide

Unit 5. Chemical Reactions

- Coal and oxygen react chemically to produce? CO2
- Vinegar and soda react chemically to produce? Sodium bicarbonate
- A chemical change is a? Chemical reaction
- Chemical formula of methane is? CH4
- Who is father of modern chemistry? Antoine Lavoisier (French)
- Who gave "law of conservation of mass" in 1789? Antoine Lavoisier
- How many basic types of chemical reaction are there? Two (addition and decomposition)
- When two or more reactants combine to form a product, the process is called? Addition reaction
- Addition reactions are also called? Combination or synthesis reactions

- Pressure is expresses as? N/m
- Which is SI unit of pressure? N/m
- SI unit of Pressure is also called? Pascal
- Branch of science that deal with practical applications of liquid in motion is called? Hydraulics
- Aspect of science that is connected with using the energy in compressed gas to make
- something move is called? Pneumatics
- A system of particles uniformly distributed in a finely divided state through a gas is called? Aerosols
- Force per unit area exerted against a surface by the weight of the air above that surface is called? Atmospheric pressure
- Barometer is used to measure? Air pressure
- Which barometer is used to measure atmospheric pressure? Mercury barometer
- The atmospheric pressure at sea level has a mean value of? 101, 325 Pascal

Chapter 8. Measurement of Physical Quantities

- The word measurement is derived from Greek word? Metron (limited proportion)
- Units whose value does not depend on any other units are called? Fundamental unit
- Units whose value depends on other units are called? Derived units
- Seven basic units kg, m, s, K, mol, A and cd are included in which system? SI system
- Foot, pound and second units are included in? FPS system
- Centimeters, gram and second units are included in? CGS system
- Meter, kilogram and seconds units are included in? MKS system
- When it was implemented in all countries that SI system of unit be used? 1960
- Seven basic units are as follow:

Mass = kilogram

Length = meter

Time = second

Temperature = Kelvin

Amount of substance = mole

Electric current = ampere

Luminous intensity = candela

Which are used to form decimal multiples and submultiples of Stunits? Prefixes

Chapter 9. Sources and Effects of Heat Energy

- Increase of the size of a body due to change in temperature is called? Thermal expansion
- Decrease of the size of a body due to change in temperature is called? Thermal contraction
- All three states of matter expand upon? Heating
- All three states of matter contract upon? Cooling

Which liquid is used in clinical thermometer? Mercury

Chapter 10. Lenses

- How many types of lenses are there? Two (convex and concave)
- A convex or converging lens is curved outward on? Both sides
- A concave or diverging lens is curved inward on? Both sides
- The centre of a lens is called? Optical center
- A line that bisects lens into two halves is called? Vertical axis
- The distance between the optical center and principal focus is called? Focal length
- A person who can focus clearly on distant objects but cannot focus on near objects is? Long-sightedness
- Long-sightedness defect can be corrected by wearing a? Convex
- A person who can focus clearly on near objects but cannot focus on distant objects is? Short-sightedness
- Short-sightedness defect can be corrected by wearing a? Concave

Chapter 11. Electricity in Action

- AC stands for? Alternating current
- Solar cells are also called? Photo-voltaic cells
- Which is oldest form of energy? Biomass
- DC stands for? Direct current
- The current which flows in one direction is called? Direct Current
- Group of diodes which converts AC to DC is called? Rectification
- CPU stands for? Central Processing Unit
- IC stands for? Integrated circuit

Chapter 12. Exploring Space

- What does "tele" and "scope" mean? "Distant" and "to see"
- How many types of telescope are there? Two (Refracting and reflecting telescope)
- A telescope that uses lenses is called? Refracting telescope
- A telescope which uses mirrors is called? Reflecting telescope
- An optical instrument used to measure the properties of visible light is called? Spectroscope
- A Vehicle sent into space to carry out a specific task is called? Spacecraft
- ISS stands for? International Space Station
- Which was first spacecraft landed on the surface of Venus in 1975 by Soviet Union? Venera-9
- Which spacecraft landed on surface of Mars? Opportunity Rover

- MRI stands for? Magnetic Resonance Imaging
- CT stands for? Computed Tomography
- . Science of obtaining information about objects on earth from space by using satellites is SHAKEEL AND OBOROS LINOS called? Remote sensing