Composition of Paper for Medical and Dental Colleges ETEA Entrance Test 2019

S.No	Subject	No of Questions
29//	Biology	80
2	Chemistry	60
3	Physics	40
Q4 =	English	20
7/10	Total	200

Note:

- > Total No of Questions 200
- > Total Marks 200
- No Negative Marking each question carry 1 mark
- > Time duration to attempt the paper shall be 150 minutes (2 hrs 30 minutes)

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The above guidelines are meant for general facilitation of students. Final paper setting is the sole prerogative of KP ETEA, however.

BIOLOGY

1. Cell Structure & Function

- a. Techniques used in Cell Biology
- b. Cell Wall and Plasma Membrane
- c. Cytoplasm and Organelles
- d. Prokaryotic and Eukaryotic Cells

2. Biological Molecules

- Biological Molecules in Protoplasm
- b. Importance of water
- c. Carbohydrates Classification (monosaccharaides, Disaccharides and Polysaccharides) and their role.
- d. Proteins (Amino Acids and peptide linkages, globular and fibrous proteins) and its role.
- e. Lipids Classification (Acylglycerls, phospholipids, waxes and terpenes)
- f. Nucleic Acids (Nucleotides and Phosphodiester Linkage, DNA, RNA, ATP and NAD)
- g. Conjugated Molecules (Glycolipids, glycoproteins, lipoproteins and nucleoproteins)

3. Enzymes

- a. Structure of enzymes
- b. Mechanism of enzyme action
- c. Factors affecting the rate of enzymatic action
- d. Enzyme inhibition (Competitive and noncompetitive inhibitors)
- e. Classification of Enzymes

4. Bioenergetics

- a. Photosynthesis
 - i. Role of Light
 - ii. Role of Photosynthesis Pigments Absorption Spectrum and Action Spectrum
 - iii. Role of Carbon Dioxide
 - iv. Role of Water
 - v. Mechanism of Photosynthesis

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b. Cellular Respiration

- i. Aerobic and anaerobic respiration
- ii. Mechanism of respiration
- iii. Synthesis of ATP Chemiosmosis and Substrate level Phosphorylation

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iv. Photorespiration

5. A cellular Life

- a. Viruses
- b. Parasitic Nature of viruses
- c. Life cycle of bacteriophage
- d. Life Cycle of HIV
- e. Viral Diseases (Hepatitis, Herpes, Polio ad Leaf Curl virus disease of cotton)
- f. Prions and Viroids (Structure and examples of disease caused by them)

6. Prokaryotes

- a. Taxonomy of Prokaryotes
- b. Achaea
- c. Bacteria; Ecology and Diversity
- d. Structure, shape and Size of Bacteria
- e. Modes of Nutrition in Bacteria
- f. Growth and Reproduction in Bacteria
- g. Importance of Bacteria
- h. The Bacterial Flora of Humans
- i. Control of Harmful Bacteria

7. Protists and Fungi

- a. Protists the evolutionary relationships
- b. Major groups of protists (Protozoa, Algae, Myxomycota, Oomycota)
- c. General characteristics of fungi
- d. Diversity among fungi (Zygomycota, Ascomycota, Basidiomycota)
- e. Importance of Fungi

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8. Diversity among plants

- a. The evolutionary origin of plants
- b. Nonvascular plants
- c. Seedless vascular plants, evolution of leaf
- d. Seed plants, gymnosperm and angiosperm, Evolution of Seed

9. Diversity among animals

- a. Characteristics of animals
- b. Criteria of animal classification
- c. Diversity in animals, invertebrates and vertebrates

10. Form and Functions in plants

- a. Nutrition in plants
- b. Gaseous exchange in plants
- c. Transport in plants
- d. Homeostasis in plants (Osmotic adjustment and thermoregulation in plants)
- e. Support in plants (support in herbaceous and woody plants)
- f. Growth and development in Plants
- g. Growth responses in Plants

11. Digestion

- a. Digestive system of Man
- b. Disorders related to digestive system and food habits (ulcer, food poisoning, obesity, dyspepsia, anorexia nervosa, bulimia nervosa)

12. Circulation

- a. Blood Circulatory System of Man
 - i. Heart
 - ii. Blood vessels
 - iii. Blood pressure and its measurement
 - iv. Cardiovascular disorders
 - v. Lymphatic system of man

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13. Immunity

- a. First Line of Defense (Skin, Digestive Tract, Air Passageway)
- b. Second Line of Defense (The nonspecific defenses such as killing cells of blood, protective proteins, inflammatory response, temperature response)
- c. Third line of Defense The specific defenses (inborn and acquired immunity, Cell mediated and antibody mediated immunity)

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d. Disorders of immune system (allergies, autoimmune diseases, transplant rejections)

14. Respiration

- a. Respiratory system of man
- b. Respiratory disorders

15. Homeostasis

- a. Osmoregulation
- b. Excretion
- c. Excretory system of man (structure and function of kidney)
- d. Disorders of Urinary Tract
- e. Thermoregulation

16. Support and Movement

- a. Human Skeleton
- b. Disorder of Skeleton
- c. Muscles

17. Nervous Coordination

- a. Nervous system of Man
- b. Effects of drugs on nervous coordination
- c. Disorders of nervous system

18. Chemical Coordination

- a. Hormones the chemical messengers
- b. Endocrine system of man (glands with location, secretions, and imbalance)

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19. Behavior

- a. The nature of Behavior
- b. Innate Behavior
- c. Learning
- d. Social Behavior

20. Reproduction

- a. Reproductive System of Male and female and their hormonal regulations
- b. Disorders of reproductive system
- c. Sexually transmitted disease

21. Development and aging

- a. Embryonic Development
- b. Control of development
- c. Human embryonic development
- d. Birth and nursing
- e. Disorders during embryonic development
- f. Postnatal development
- g. Aging

22. Inheritance

- a. Law of Independent Assortment (probabilities)
- b. Incomplete Dominance, Multiple alleles and co-dominance
- c. ABO Blood Group System
- d. RH blood Group system and Erythroblastosis foetalis
- e. Polygenic inheritance and epistatsis
- f. Gene Linkage and crossing over
- g. Sex determination
- h. Sex linkage (drosophila and man, X- Linked Disorders, sex limited and sex influenced traits)

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23. Chromosomes and DNA

- a. Chromosomal theory of inheritance
- b. DNA as the hereditary material
- c. DNA replication (Meselson and Stahi experiments and mechanism)
- d. Gene Expression (Gene code, transcription, translation)
- e. Regulating Gene Expression
- f. Mutation (Chromosomal and Gene Mutations)

24. Evolution

- a. The evolution of the concept of evolution
- b. Evidences of evolution
- c. Evolution from prokaryotes to eukaryotes
- d. Lamarckism
- e. Darwinism
- f. Neo Darwinism

25. Man and His Environment

- a. Biogeochemical cycle (water cycle and nitrogen cycle)
- b. The flow of energy (productivity, Trophic levels)
- c. Ecological Succession
- d. Population dynamics
- e. Human Impact on Environment (nuclear Power, CO2 and Global Warming, Acid Rain, Ozone Depletion, common pollution sources)
- f. Environmental resources and their depletion

26. Biotechnology

- a. Gene Cloning
- b. DNA Sequencing
- c. DNA Analysis
- d. Genome Maps
- e. Tissue Culture

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- f. Transgenic Bacteria, Plants and Animals
- g. Biotechnology and healthcare
- h. Scope and importance of Biotechnology

27. Biology and Human Welfare

- a. Vaccination and Integrated Disease management
- b. Animal Husbandry
- c. Latest techniques applied to enhance crop and fruit yields
- d. Home Gardening
- e. Role of Microbes in Human Welfare



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CHEMISTRY

1. Stoichiometry

- a. Mole and Avogadro's Number
- b. Mole Calculations
- c. Percentage Composition
- d. Excess and Limiting Reagents
- e. Theoretical Yield and Actual yield as percentage

2. Atomic Structure

- a. Discharge Tube Experiments
- b. Application of Bohr's Model
- c. Planck's Quantum Theory
- d. X-Rays
- Quantum Numbers and Orbitals
- Electronic configuration

3. Theories of Covalent Bonding and Shapes of Molecules

- a. Shapes of Molecules
- b. Theories of Covalent Bonding
- **Bond Characteristics**
- Effect of Bonding on Physical and Chemical Properties

4. States of Matter 1: Gases

- a. Kinetic Molecular theory of gases
- b. Absolute temperature scale on basis of Charles law
- c. Avogadro's Law
- d. Ideal Gas Equation
- e. Deviation from ideal gas behavior
- f. Van Der Waals Equation
- g. Dalton's Law of Partial Pressure
- h. Graham's law of diffusion and effusion
- Liquefaction of gases.
- Fourth State of Matter: Plasma

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5. States of Matter 2: Liquid

- a. Kinetic Molecular Interpretation of Liquids
- b. Intermolecular forces (Van Der Waals Forces)
- c. Energetics of Phase Changes
- d. Liquid Crystals

6. States of Matter 3 : Solids

- a. Kinetic Molecular interpretation of solids
- b. Types of solids
- c. Properties of crystalline solids
- d. Crystal Lattice
- e. Types of crystalline Solids

7. Chemical Equilibrium

- a. Reversible Reactions and Dynamic Equilibrium
- b. Factors affecting Equilibrium (Le-Chatelier's Principle)
- c. Industrial Application of Le-Chatelier's Principle (Haber's Process)
- d. Solubility Product & Precipitation Reactions
- e. Common Ion Effect

8. Acids, Bases & Salts

- a. Acidic, Basic and Atmospheric Substances
- b. Bronsted-Lowery Definitions of Acids and Bases
- c. Conjugate Acid-Base Pairs
- d. Expressing the strength of acids and bases
- e. Lewis definition of acids and bases
- f. Buffer solutions and their applications
- g. Salt hydrolysis

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9. Chemical Kinetics

- a. Chemical Kinetics
- b. Rates of reactions
- c. Collision Theory, Transition State and activation energy
- d. Catalysis

10. Solutions and colloids

- a. General Properties of Solutions
- b. Concentration Units
- c. Rault's Law
- d. Colligative properties of dilute solutions
- e. Colloids

11. Thermochemistry

- a. Energy in chemical reactions
- b. Thermodynamics
- c. Internal Energy
- d. First Law of thermodynamics
- e. Standard State and Standard Enthalpy Changes
- f. Heat Capacity
- g. Calorimeter
- h. Hess's Law: Enthalpy Change Calculations
- i. Born Haber Cycle

12. Electrochemistry

- a. Oxidation-Reduction Concepts
- b. Electrode, electrode potential and electrochemical series
- c. Types of electrochemical cells

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13. S- and P- Block Elements

- a. Period 3 (Na to Ar)
 - i. Physical and atomic properties of the elements
 - ii. Reaction of Period 3 elements with water, Oxygen and chlorine
 - iii. Physical Properties of oxides
 - iv. Acid-Base behavior of the Oxides
 - v. Chlorides of the Period 3 Elements
 - vi. Hydroxides of the Period 3 Elements
- b. Group 1 Elements
 - i. Atomic and Physical Properties
 - ii. Trends in Reactivity with Water
 - iii. Reactions with Oxygen
 - iv. Reactions with Chlorine
 - v. Effects of Heat on Nitrates, Carbonates and Hydrogen-Carbonates
 - vi. Flame Tests
- c. Group 2 Elements
 - i. Atomic and PhysicalProperties
 - ii. Trends in Reactivity with water
 - iii. Reaction with oxygen and Nitrogen
 - iv. Trends in Solubility of the Hydroxides, Sulphates and Carbonates
 - v. Trends in thermal stability of the nitrates and carbonates
 - vi. How beryllium differs from other members of its group?
- d. Group 4 Elements
 - i. Physical Properties: Melting and Boiling Points
 - ii. The trend from Non-Metal to Metal
 - iii. Oxidation State
 - iv. Possible Oxidation States (Inert Pair Effect in formation of Ionic and covalent Bonds)
 - v. Chlorides of Carbon, Silicone and Lead (structures, stability and reactions with water)
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- vi. Oxides
- e. Group 7 Elements: Halagens
 - i. Atomic and Physical Properties and related trends
 - ii. Bond Enthalpies in Halogens and hydrogen halides
 - iii. Strength of halogens as oxidizing agents: F>Cl>Br>I
 - iv. The acidity of hydrogen halides
 - v. Halide ions as reducing agents and trend in halide strength, ability of halide lons

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14. D & F Block Elements: Transition Elements

- a. General features
 - i. Electronic structure
 - ii. Binding Energy
 - iii. Variable oxidation states
 - iv. Catalytic activity
 - v. Magnetic behavior
 - vi. Alloy formation
- b. Coordination Compounds
- c. Chemistry of Some Important Transition elements
 - i. Vanadium
 - ii. Chromium
 - iii. Manganese
 - iv. Iron
 - v. Copper

15. Organic Compounds

- a. Sources
- b. Coal as a source of organic compounds
- c. Characteristics of organic compounds
- d. Uses of organic compounds
- e. New Allotrope of Carbon :bucky ball
- f. Functional groups and homologous series
- g. Detection of element in organic compounds
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16. Hydrocarbons

- a. Types of Hydrocarbons
- b. Alkanes and Cycloalkanes
- c. Radical Substitution reactions
- d. Oxidation of organic compounds
- e. Alkenes
- f. Isomerism
- g. Alkynes
- h. Benzene and substituted Benzenes

17. Alkyl Halides and Amines

- a. Alkyl Halides
- b. Organometallic compounds (Grignard's reagents)
- c. Amines

18. Alcohols, Phenols and Ethers

- a. Nomenclatures
- b. Physical Properties
- c. Structures
- d. Acidity
- e. Preparations of Alcohols
- f. Reactions
- g. Differences among them
- h. Chemical Reactivity

19. Carbonyl Compounds 1:

- a. Aldehydes and Ketones
- b. Nomenclature
- c. Physical Properties
- d. Acidity Structure
- e. Preparations of Aldehydes and Ketones
- f. Reactivity
- g. Reactions of Aldehydes and ketones

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20. Carbonyl Compounds 2:

- a. Carboxylic acid and functional derivatives
- b. Nomenclature
- c. Physical Properties
- d. Structure
- e. Preparations of Carboxylic Acids
- f. Reactivity
- g. Reactions of Carboxylic Acids

21. Biochemistry

- a. Carbohydrates
- b. Proteins
- c. Enzymes
- d. Lipids
- e. Nucleic Acids
- f. Minerals of Biological Significance

22. Industrial Chemistry

- a. Introduction to Chemical process industry and Raw Materials used
- b. Safety Considerations in Process industries
- c. Dyes
- d. Pesticides
- e. Petrochemicals
- f. Synthetic Polymers (PVS and Nylon)
- g. Cosmetics: Lipsticks, Nail Varnish and Remover, Hair Dyes
- h. Adhesives

23. Environmental Chemistry

- a. Chemistry of the troposphere
- b. Chemistry of Stratosphere
- c. Water Pollution and Water Treatment
- d. Green Chemistry

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24. Analytical Chemistry

- a. Classical Method of Analysis (Combustion analysis and determination of molecular formula)
- b. Modern Methods of Analysis (Spectroscopy, Spectroscopic Methods)



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PHYSICS

1. Measurement

- a. The scope of Physics
- b. SI Base, Supplementary and derived units
- c. Errors and uncertainties
- d. Use of significant figures
- e. Precision and accuracy
- f. Dimensionality

2. Vectors and Equilibrium

- a. Cartesian Coordinate system
- b. Addition of vectors by head to tail rule
- c. Addition of vectors by perpendicular components
- d. Scalar product of two vectors
- e. Vector product of two vectors
- f. Torque
- g. Equilibrium of forces
- h. Equilibrium of torques

3. Forces and Motion

- a. Displacement
- b. Average velocity and instantaneous velocity
- c. Average acceleration and instantaneous acceleration
- d. Review of equations of uniformity accelerated motion
- e. Newton's law of motion
- f. Momentum and impulse
- g. Law of conservation of momentum
- h. Elastic collisions in one dimension

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- i. Momentum and explosive forces
- j. Projectile Motion
- k. Rocket Motion

4. Work and Energy

- a. Work done by a constant force
- b. Work as scalar product of force and displacement
- c. Work against gravity
- d. Work done by variable force
- e. Gravitational potential at a point
- f. Escape velocity
- g. Power as scalar product of force and velocity
- h. Work energy principle in resistive medium
- Sources and uses of energy
 - a. Conventional sources of energy
 - b.Non-conventional sources of energy

5. Rotational and circular motion

- a. Kinematics of angular motion
- b. Centripetal force and centripetal acceleration
- c. Orbital velocity
- d. Artificial satellites
- e. Artificial gravity
- f. Moment of inertia
- g. Angular momentum

6. Fluid Dynamics

- a. Streamline and turbulent flow
- b. Equation of continuity
- c. Bernoullie's equation

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- d. Application of bernoulli's equation
- e. Viscous fluids
- f. Fluid friction
- g. Terminal velocity

7. Oscillations

- a. Simple Harmonic Motion (SHM)
- b. Circular Motion and SHM
- c. Practical SHM system (mass spring and simple pendulum)
- d. Energy conservation in SHM
- e. Free and forced oscillations
- f. Resonance
- g. Damped oscillations

8. Waves

- a. Periodic Waves
- b. Progressive waves
- c. Transverse and longitudinal waves
- d. Speed of sound in air
- e. Newton's formula and Laplace correction
- f. Superposition of waves
- g. Modes of vibration of strings
- h. Fundamental mode and harmonics
- i. Vibrating air columns and organ pipes
- j. Doppler effect and its applications
- k. Generation, detection and use of ultrasonic

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9. Physical Optics

- a. Nature of light
- b. Wave front
- c. Huygen's principle
- d. Interference
 - a. Young's double slit experiment
 - b. Michelson's interferometer
- e. Diffraction
- f. Polarization

10. Thermodynamics

- a. Thermal Equilibrium
- b. Heat and Work
- c. Internal Energy
- d. First law of thermodynamics
- e. Molar specific heats of a gas
- f. Heat engine
- g. Second law of thermodynamics
- h. Carnot's cycle
- i. Refrigerator
- j. Entropy

11. Electrostatics

- a. Force between charges in different media
- b. Electric field
- c. Electric field of various charge configurations
- d. Electric field due to dipole
- e. Electric flux

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- f. Gauss's law and its applications
- g. Electric potential
- h. Capacitors
- Energy stored in a capacitor

12. Current electricity

- a. Steady current
- Electric potential difference
 Resistivity and its dependence upon temperature
- e. Power dissipation in resistance
- Thermoelectricity
- Kirchhoff's Laws
- The potential divider
- Balanced potentials (Wheatstone bridge and potentiometer)

13. Electromagnetism

- a. Magnetic field of current carrying conductor
- b. Magnetic force on a current carrying conductor
- c. Magnetic flux density
- d. Ampere's law and its application in solenoid
- e. Force on a moving charged particle in a magnetic field
- e/m of an electron
- torque on a current carrying coil in a magnetic field
- h. electro-mechanical instruments

14. Electromagnetic induction

- a. Induced emf
- b. Faraday's law
- c. Lenz's law

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- d. Eddy currents
- e. Mutual inductance
- Self-inductance
- Energy stored by an inductor
- Motional emf's
- A.C. Generator
- A.C. Motor and Back emf
- Transformer

15. Alternating Current

- a. Alternating Current (AC)
- b. Instantaneous, peak and rms values of AC
- Phase, Phase lag and phase lead in AC
- AC through a resistor
- AC through a capacitor
- AC through an inductor
- **Impedance**
- h. RC series circuit
- RL series circuit
- Power in AC circuits
- Resonant circuits
- Electrocardiography
- m. Principle of metal detectors
- Maxwell's equations and electromagnetic waves Bakhtunkhwa

16. Physics of solids

- Classification of solids
- b. Mechanical properties of solids

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- c. Elastic limit and yield strength
- d. Electrical properties of solids
- e. Superconductors
- f. Magnetic properties of solids

17. Electronics

- a. Intrinsic and extrinsic semiconductors
- b. P&N type substances
- c. Electrical conductivity by electron and holes
- d. PN Junction
- e. Forward and reverse biased PN Junction characteristics
- f. Half and full wave rectification
- g. Uses of specially designed PN junctions
- h. Transistor and its characteristics
- i. Transistor as an amplifier (C-E Configuration)

18. Dawn of Modern Physics

- a. Special Theory of relativity
- b. Quantum theory of radiation
- c. Photoelectric effect
- d. Compton's effect
- e. Pair production and pair annihilation
- f. Wave nature of particles
- g. Electron microscope
- h. Uncertainty principle

19. Atomic Spectra

- a. Atomic spectra
- b. Emission of spectral lines
- c. Ionization and excitation potentials

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- d. Inner shell transitions and characteristics X Rays
- e. Laser

20. Nuclear Physics

- a. Composition of atomic nuclei
- b. Isotopes
- c. Mass spectrograph
- d. Mass defect and binding energy
- e. Radioactivity (properties of alpha, beta and gamma rays)
- f. Energy from nuclear decay
- g. Half-life and rate of decay
- h. Interaction of radiation with matter
- i. Radiation detectors (GM counter and solid state detector)
- j. Nuclear reactions
- k. Nuclear fission (fission chain reaction)
- I. Nuclear reactors (types of nuclear reactor)
- m. Nuclear fusion (nuclear reaction in sun)
- n. Radiation exposure
- o. Biological and medical uses of radiation (radiation therapy, diagnosis of diseases, tracers techniques)
- p. Basic forces of nature
- q. Elementary particles and particle classification (hadrons, leptons and quarks)

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ENGLISH

- 1. Comprehend key vocabulary
 - a. Synonyms
 - b. Antonyms
- 2. Demonstrate control of tenses and sentence structure
 - a. Use of correct tenses and sentence structure in writing
- 3. Demonstrate correct use of subject-verb agreement
 - a. Use of correct subject-verb agreement in written texts
- 4. Demonstrate correct use of articles and prepositions
 - a. Use appropriate articles and prepositions in different written contexts
 - b. Select the appropriate article or preposition for a particular context
- 5. Use of Narrations and Voice
 - a. Direct and Indirect Speech
 - b. Active Voice and Passive Voice

14	Vocabulary	1114
Α	В	C/ ////
Alacrity Alert	Befriend Boost	Charitable Consciousness
Astonish	Benefit	Charity
Attain	Benevolent	Consider
Attentive	Brighten	Charm
D	Theber Dikhtun	khwa
Decent	Economic	Fabulous
Delectable	Enjoy	Flexible
Delicate	Essence	Fair
Delicious	Ecstasy	Flower
Desirable	Enlighten	Faith

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G	Н	
Goodness	Heart	
Galore	Honorable	Innocent
Goodwill	Heaven	Innovate
Game		Immune
	Hope	
Gorgeous	Help	Input
J.	K	
Joke	Keen	Large
Jolly	Kind	Lively
Jubilant	Kind-hearted	Lovable
Juicy	Kindly	Laugh
Just	Kudos	Lavish
M	N	0
Made	Neat	Onward
Mediate	New	Open
Magnificent	Nice	Open-minded
Magnify	Nifty	Opportunity
Mellow	Nippy	Original
P () ()	Q	R
Pleasant	Quality	Radiant
Pardon	Quiet	Reliable
Please	Quantity	Rapture
Produce	Quarter	Relief
Pleasurable	Queen	Ready
S	T - A	U / / / / / /
Satisfaction	Tact	Uncritical
Smile	Timeless	Understand
Superior	Teacher	Upbeat
Satisfactory	Тор	Upgrade
Sociable	Training	Uplift
V	W	Y
Validate	Warmth	Yearn
Valuable	Welcome	Yes
Venerable	Witty	Young
Veracious	Wellbeing	Value
Verify	Wonder	Youth
Z	VOING	110401
Zeal		
Zealous		
Zest		
Zoom		
Zero		
ZE10		

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