

SANAWAR AN INSTITUTE FOR CHILDREN
Final Exam Syllabus (Session 2020-2021)
Class – XI (Commerce, Medical and Non-Medical)

English

Reading section

- a) Unseen passage
- b) Note making

Writing section

- a) Letter of inquiry
- b) Letter of complaint
- c) Letter of placing order
- d) Notice
- e) Poster making
- f) Invitation and replies
- g) Letter to education authorities
- h) Speech

Grammar section

- a) Close gap filling (based on tenses, determiners and modals)
- b) Error correction
- c) Sentence reordering
- d) Narration

Literature section

Hornbill (Prose)

Chapter- 1,2,3,5,6,8

Hornbill (Poetry)

Poem- 1,2,3,4

Snapshots

Chapter- 1,2,3,4,5,7

Physical Education

Unit 1- Changing trends and career in Physical Education

1.1 Meaning and definition of Physical Education

1.2 Aims and objectives of Physical Education

1.3 Career options in Physical Education

Unit 2- Olympic value education

2.1 Olympics, Paralympics and special Olympics

2.2 Olympics symbols, ideals, objectives and values of Olympics

Unit 3- Physical fitness, wellness and lifestyle

3.1 Meaning and importance of physical education fitness Wellness and lifestyle

3.2 Components of physical fitness and Wellness

3.3 Components of health-related fitness

Unit 4- Physical education and sports for CWSN

4.1 Aim and objective of adaptive physical education

4.2 Organization promoting adaptive sports (S.O.B)

4.3 Concept of inclusion, its need and implementation

Unit 5- Yoga

5.1 Meaning and importance of yoga

5.2 Elements of yoga

5.3 Introduction- asanas, pranayama, meditation and yogic kriya

5.4 Yoga for concentration and related asanas

Unit 6- Physical activity and leadership training

6.1 Leadership qualities and role of a leader

6.2 Creating leaders through physical education

6.3 Meaning, objective and types of adventure sports

Unit 7- Test measurement and evaluation

7.1 Define test, measurement and evaluation

7.2 Importance of test, measurement and evaluation in sports

Unit 8- Fundamentals of anatomy, physiology and kinesiology in sports

8.1 Definition and importance of anatomy, physiology and kinesiology

8.2 Function of skeleton system, classification of bones and types of joints

8.3 Properties and function of muscles

8.4 Function and structure of respiratory system and circulatory system

Unit 9- Psychology and sports

9.1 Definition and importance of psychology in physical education and sports

9.2 Define and differentiate between growth and development

9.3 Developmental characteristics at different stages of development

Unit 10- Training and doping in sports

10.1 Meaning and concept of sports training

10.2 Principles and sports training

10.3 Warming up and limbering down

10.4 Skill, technique and style

Economics

Statistics

Chapter 1- Concept of economics and significance of statistics in economics

Chapter 2- Collection of data (Excluded topic- sampling and non-sampling errors)

Chapter 3- Census and sample methods of collection of data

Chapter 4- Organisation of data

Chapter 5- Presentation of data- Textual and tabular presentation

Chapter 6- Diagrammatic presentation of data- Bar diagram and Pie diagram

Chapter 7- Frequency diagrams- Histogram, Polygon and Ogive

Chapter 8- Arithmetic line- Graphs or line series graph

Chapter 9- Measures of central tendency- Arithmetic mean

Chapter 10- Measures of central tendency- Median and mode

Chapter 11- measures of dispersion (Only do these topics- Absolute dispersion- Standard deviation, Relative dispersion- Co-efficient of variation)

Chapter 12- Correlation (Excluded topic- spearman's rank correlation)

Chapter 13- Index number (Excluded topic- index of industrial production)

Microeconomics

Chapter 1- Economics and economy

Chapter 2- Central problem of economy (Excluded topic-PPC)

Chapter 3- Consumer's equilibrium- Utility analysis

Chapter 4- Consumer's equilibrium- Indifference curve analysis

Chapter 5- Theory of demand

Chapter 6- Price elasticity of demand

Chapter 7- Production function and return of a factor

Chapter 8- Concept of cost

Chapter 9- Concept of revenue

Chapter 11- Theory of supply

Chapter 12- Forms of market (Only perfect competition)

Chapter 13- Market equilibrium under perfect competition and effect of shifts and demand of supply

Accountancy

Unit I Theoretical framework

Chapter 1- (Introduction of accounting)

Chapter 2- (Basic accounting terms)

Chapter 3- (Theory base of accounting)

Chapter 4- (Bases of accounting)

Chapter 5- (Accounting equation)

Chapter 6- (Rules of debit and credit)

Chapter 7- (Source documents/vouchers)

Unit II Accounting process

Chapter 8- Journal

Chapter 9- Ledger

Chapter 10- Cash book

Chapter 11- Other subsidiary books

Chapter 12- Bank Reconciliation statement (Excluded topic- adjusted cash book)

Chapter 13- Trial Balance

Chapter 14- Depreciation

Chapter 15- Provision and reserve

Chapter 16- Accounting for bills of exchange (Excluded topic- retirement and renewal of bill)

Chapter 17- Rectification of errors

Unit III Financial statements of sole proprietorship from complete and incomplete records

Chapter 18- Financial statement I

Chapter 19- Financial statement II (with adjustment)

Chapter 20- Single entry system (Excluded topic- conversion method)

Chapter 21- Application of computers in Accounting (Meaning and elements of computer system, Capabilities of computer system, Limitation of computer system, Components of computer)

Business Studies

Unit 1- Foundation of Business

1.1 Business- An introduction

1.2 Classification of Business activities

1.3 Business risk

Unit 2- Forms of business organisation

2.1 Sole proprietorship

2.2 Partnership organisation

2.3 Joint Hindu family business

2.4 Cooperative societies

2.5 Company organisation

2.6 Various stages

Unit 3- Public, private and global enterprise

3.1 Public and private sector

Unit 4- Business services

4.1 Banking services and digital payments

4.2 Insurance- An introduction

4.3 Life, fire and marine insurance

4.4 Postal and telecom services (Excluded topic- postal services- mail, registered post, parcel, speed post, courier- meaning)

Unit 5- Emerging mode of business

5.1 E-business and outsourcing services (Excluded topic- BPO concept, need and scope)

Unit 6- Social responsibility of business and business ethics (Excluded topic- Business ethics- concept and elements)

Unit 7- Sources of business finance

(Excluded Topic- Borrowed funds- Intercorporate deposits (ICD)- concept)

Unit 8- Small business

8.1 Small business

8.2 Entrepreneurship development

Unit 9- Internal trade

9.1 Internal trade

9.2 Wholesale trade

9.3 Retail trade (Excluded topic- Types of retail-trade-Itinerant and small scale fixed shop retailers)

Unit 10- International trade

10.1 International business (Excluded topic- Export, Import and WTO)

Project work

1. Bank and its function

2. Paste withdrawal and deposit form

or

Principles of insurance

Biology

Chapter-1: The Living World What is living? (Excluded topic- taxonomy and systematics; tools for study of taxonomy- museums, zoological parks, herbaria, botanical gardens, keys for identification)

Chapter-2: Biological Classification

Chapter-3: Plant Kingdom (Excluded topic-Angiospermae; Angiosperms - classification up to class, characteristic features and examples)

Chapter-4: Animal Kingdom

Chapter-5: Morphology of Flowering Plants (Excluded topic- Morphology and modifications: Morphology of different parts of flowering plants: root, stem, leaf, fruit and seed; Description of families- Fabaceae)

Chapter-7: Structural Organisation in Animals (Only do this topic- Animal tissues).

Chapter-8: Cell-The Unit of Life

Chapter-9: Biomolecules

Chapter-10: Cell Cycle and Cell Division

Chapter-13: Photosynthesis in Higher Plants

Chapter-14: Respiration in Plants

Chapter-15: Plant - Growth and Development (Only do these topics- Growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA)

Chapter-17: Breathing and Exchange of Gases

Chapter-18: Body Fluids and Circulation

Chapter-19: Excretory Products and their Elimination

Chapter-20: Locomotion and Movement (Only do these topics- Skeletal muscle, contractile proteins and muscle contraction)

Chapter-21: Neural Control and Coordination (Excluded topic- reflex action; sensory perception; sense organs; elementary structure and functions of eye and ear)

Chapter-22: Chemical Coordination and Integration

Chemistry

Unit I

Some Basic Concepts of Chemistry (Excluded topic- Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules)

Unit II

Structure of Atom (Excluded topic- Discovery of Electron, Proton and Neutron, atomic number, isotopes and isobars. Thomson's model and its limitations. Rutherford's model and its limitations)

Unit III

Classification of Elements and Periodicity in Properties (Excluded topic- Significance of classification, brief history of the development of periodic table)

Unit IV

Chemical Bonding and Molecular Structure

Unit V

States of Matter: Gases and Liquids [Excluded topic- liquefaction of gases, critical temperature, kinetic energy and molecular speeds (elementary idea), Liquid State- vapour pressure, viscosity and surface tension (qualitative idea only, no mathematical derivations)]

Unit VI

Chemical Thermodynamics (Excluded topic- Heat capacity and specific heat capacity, Criteria for equilibrium)

Unit VII

Equilibrium (Excluded topic- hydrolysis of salts (elementary idea), Henderson Equation)

Unit VIII

Redox Reactions (Excluded topic- applications of redox reactions)

Unit IX

Hydrogen (Excluded topic- Preparation, properties and uses of hydrogen, hydrogen peroxide - preparation, reactions and structure and use)

Unit X

s -Block Elements (Excluded topic- Preparation and Properties of Some Important Compounds: Sodium Carbonate, Sodium Chloride, Sodium Hydroxide and Sodium Hydrogen carbonate, Biological importance of Sodium and Potassium. Calcium Oxide and Calcium Carbonate and their industrial uses, biological importance of Magnesium and Calcium)

Unit XI

Some p -Block Elements (Excluded topic- Some important compounds: Borax, Boric acid, Boron Hydrides, Aluminium: Reactions with acids and alkalies, uses. Carbon: uses of some important compounds: oxides. Important compounds of Silicon and a few uses: Silicon Tetrachloride, Silicones, Silicates and Zeolites, their uses)

Unit XII

Organic Chemistry: Some basic Principles and Techniques (Excluded topic- methods of purification, qualitative and quantitative analysis)

Unit XIII

Hydrocarbons (Excluded topic- free radical mechanism of halogenation, combustion and pyrolysis)

Physics

Chapter–2: Units and Measurements

Chapter–3: Motion in a Straight Line (Excluded topic- Frame of reference, Motion in a straight line: Position-time graph, speed and velocity)

Chapter–4: Motion in a Plane

Chapter–5: Laws of Motion (Excluded topic- Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion)

Chapter–6: Work, Energy and Power

Chapter–7: System of Particles and Rotational Motion (Excluded topic- Statement of parallel and perpendicular axes theorems and their applications)

Chapter–8: Gravitation (Excluded topic- Kepler's laws of planetary motion, Acceleration due to gravity)

Chapter–9: Mechanical Properties of Solids (Excluded topic- Elastic behaviour, shear modulus of rigidity, Poisson's ratio; elastic energy)

Chapter–10: Mechanical Properties of Fluids

Chapter–11: Thermal Properties of Matter (Excluded topic- Heat, temperature, Heat transfer- conduction, convection and radiation)

Chapter–12: Thermodynamics (Excluded topic- Heat engine and refrigerator)

Chapter–13: Kinetic Theory

Chapter–14: Oscillations

Chapter–15: Waves (Excluded topic- fundamental mode and harmonics, Doppler effect)

Mathematics

Chapter 1- Sets (Excluded Difference of sets, Complement of a set, Properties of Complement)

Chapter 2- Relations & Functions (Excluded topic- Cartesian product of sets up to $R \times R \times R$; Sum, Difference, product and quotients of functions)

Chapter 3- Trigonometric Functions (Excluded topic- General Solutions of trigonometric equations of the type $\sin y = \sin a$, $\cos y = \cos a$ and $\tan y = \tan a$)

Chapter 5- Complex Numbers and Quadratic Equations (Excluded topic- Polar representation of complex numbers, Square root of a complex number)

Chapter 6- Linear Inequalities

Chapter 7- Permutations and Combinations (Excluded topic- Derivation of formulae for ${}^n P_r$ and ${}^n C_r$)

Chapter 9- Sequence and Series (Excluded topic- Formulae for the following special sums $\sum k$, $\sum k^2$, $\sum k^3$)

Chapter 10- Straight Lines (Excluded topic- Shifting of origin, Equation of family of lines passing through the point of intersection of two lines)

Chapter 11- Conic Sections (Excluded topic a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section)

Chapter 12- Introduction to Three-dimensional Geometry

Chapter 13- Limits and Derivatives

Chapter 15- Statistics (Excluded topic- Analysis of frequency distributions with equal means but different variances)

Chapter 16- Probability (Excluded topic- Axiomatic (set theoretic) probability, connections with other theories of earlier classes)