



UNIT TEST II EXAMINATION SYLLABUS (DECEMBER 2020)

CLASS:XII

SUBJECT	SYLLABUS
ENGLISH (Theory - 50 marks)	<ul style="list-style-type: none">• All the poems(My Mother at Sixty -six,An Elementary.....,Keeping Quiet,A Thing of Beauty and Aunt Jennifer's Tigers)• Indigo• The Rattrap• The Enemy• Should Wizard Hit Mommy?• On the Face of It • Notice• Advertisements• Invitations and Replies• Letters- Job application, Editor• Article writing• Report writing
MATHEMATICS (Theory- 50 marks)	<ul style="list-style-type: none">• Chapter 7 Integrals• Chapter 10 Vector Algebra• Chapter 11 Three Dimensional Geometry• Chapter 13 Probability
PHYSICS (Theory- 50 marks)	<ul style="list-style-type: none">• Ray Optics: Refraction of light, total internal reflection and its applications, optical fibres, refraction at spherical surfaces, lenses, thin lens formula, lensmaker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism. Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.• WAVE OPTICS: Wavefront and Huyghen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huyghen's principle. Interference, Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light, Diffraction due to a single slit, width of central maximum.• ELECTRONIC DEVICES: Energy bands in conductors, semiconductors and insulators , Intrinsic and extrinsic semiconductors, P and n type semiconductors, Semiconductor diode - I-V characteristics in forward and reverse bias, diode

	as a rectifier; Special purpose p-n junction diodes: LED, photodiode, solar cell
CHEMISTRY (Theory- 50 marks)	<ul style="list-style-type: none"> ● Chapter-1- Solid state ● Chapter-2 solutions ● Chapter-3 electrochemistry ● Chapter-9 coordination chemistry
COMPUTER SCIENCE (Theory- 50 marks)	<ul style="list-style-type: none"> ● Chapter - Computer Networks ● Chapter- Stacks and Queues in Python ● Chapter- Societal Impacts
BIOLOGY (Theory- 50 marks)	<ul style="list-style-type: none"> ● Chapter-11: Biotechnology - Principles and Processes ● Chapter-12: Biotechnology and its Application ● Chapter-13: Organisms and Populations ● Chapter-15: Biodiversity and its Conservation
EG (Theory- 50 marks)	<p>A. Assembly drawings and Dis-Assembly drawings (Internal choice will be given between an Assembly drawing and a Dis-Assembly drawing).</p> <ol style="list-style-type: none"> 1. Bearings <ul style="list-style-type: none"> (i) Open-Bearing (ii) Bush- Bearing 2. Rod-Joints <ul style="list-style-type: none"> (i) Cotter-joints for round-rods (Sleeve and cotter joint) (ii) HuhCotter-joints for square rods (Gib and cotter-joint) 3. Tie-rod and Pipe-joint <ul style="list-style-type: none"> (i) Turnbuckle (ii) Flange pipe joint
ACCOUNTANCY (Theory- 50 marks)	<p>Book 2- Accounting for Companies</p> <ul style="list-style-type: none"> ● Chapter- Issue of shares ● Chapter- Issue of debentures <p>Book 3- Financial Statement Analysis</p> <ul style="list-style-type: none"> ● Chapter- Ratio analysis ● Chapter- Cash Flow Statement
BUSINESS STUDIES (Theory- 50 marks)	<p>Book 1- Principles and Functions of Management</p> <ul style="list-style-type: none"> ● Chapter - Directing <p>Book 2 - Business Finance and Marketing</p> <ul style="list-style-type: none"> ● Chapter - Financial Management ● Chapter - Financial Market
ECONOMICS (Theory- 50 marks)	<ul style="list-style-type: none"> ● <u>INDIAN ECONOMICS</u> <ul style="list-style-type: none"> ○ chapter -(9) Environment ○ chapter (8) Infrastructure

	<ul style="list-style-type: none"> ● <u>MACRO ECONOMICS</u> <ul style="list-style-type: none"> ○ Chapter - (1) National income accounting ○ Chapter - (2) Determination of income /output /employment (AD/AS)
HISTORY (Theory- 50 marks)	<ul style="list-style-type: none"> ● Theme 9: Kings and Chronicles ● Theme 11 : Rebels and the Raj ● Theme 13 : Mahatma Gandhi and the Nationalist movement ● Theme 15 : Framing the constitution
POLITICAL SCIENCE (Theory- 50 marks)	<p>Politics in India since Independence</p> <ul style="list-style-type: none"> ● Chapter 1- Challenge of Nation building ● Chapter 2- India's external relations ● Chapter 3- Challenges to and restoration of the Congress System ● Chapter 4- Crisis of the Democratic Order ● Chapter 5- Recent Development in Indian Politics
GEOGRAPHY (Theory- 50 marks)	<p>India: People and Economy</p> <ul style="list-style-type: none"> ● Mineral and Energy Resources ● Planning and Sustainable Development in Indian Context ● Geographical Perspective on Selected Issues and Problems
PSYCHOLOGY (Theory- 50 marks)	<ul style="list-style-type: none"> ● Chapter 3 - Meeting Life Challenges ● Chapter 6 - Attitude and Social Cognition ● Chapter 7 - Social Influence and Group Processes
INFORMATICS PRACTICES (Theory- 50 marks)	<ul style="list-style-type: none"> ● Chapter 3- Data Visualization ● Chapter 7- Computer Networks ● Chapter 8- Societal Impacts
PAINTING (Theory- 50 marks)	<ul style="list-style-type: none"> ● Chapter 6. Introduction to the Bengal School of Painting ● Chapter 7. Study of the Paintings of the Bengal School ● Chapter 8. Contribution of Indian Artists in the Struggle for National Freedom Movement ● Chapter 9. Evolution of the Indian National Flag ● Chapter 10. Modern Trends in Indian Art ● Chapter 11. Paintings of the Contemporary (Modern) Indian Artists ● Chapter 12. Graphic Prints of Contemporary (Modern) Indian Artists ● Chapter 13. Sculpture of the Contemporary (Modern) Indian Artists
PHYSICAL EDUCATION (Theory- 50 marks)	<ul style="list-style-type: none"> ● Unit-7 Physiology and Injuries in Sports ● Unit-8 Biomechanics and Sports