
AKAL ACADEMY



The Real Education

SYLLABUS BOOKLET

Grade : XII

2019 - 2020

Unit 1

Duration	Content	Subject Enrichment Activity
07/03/2019 To 17/05/2019	<p><u>Month-1</u> Flamingo : The Last Lesson, : My Mother at Sixty Six (Poem) Writing : Notice, Letter to the editor, speech writing Reading : Comprehension passage Vistas : The Tiger King</p> <p><u>Month-2</u> Flamingo : An Elementary School : Classroom in a Slum. : Lost Spring Vistas : The third level Writing : Invitations (formal / informal) Replies to invitations, Articles</p>	<p>Editorial reading and its analysis Newspaper Reading: Article reading (Critical Analysis in written form)</p> <p>Newspaper Reading: News reading discussion contest (based on editorial or any current issue)</p> <p>Analytical evaluation of any current issue mentioned in English National.</p>

Pre Mid- Term Exam (18/05/2019 – 27/05/2019)

Unit II (Mid-Term)		
Duration	Content	Subject Enrichment Activity
01/07/2019 To 03/09/2019	<p><u>Month-1</u> Flamingo : Deep Water , Keeping Quiet Vistas : Journey to the End of the Earth Writing : Advertisement, Reports</p> <p><u>Month-2</u> Flamingo : The Rattrap, Indigo Vistas : The Enemy Writing : Designing or Drafting Posters, Business Letter (Placing Orders), Making Enquiries , Reading : Note Making and summarizing</p>	<p>Newspaper Reading : Reflective writing based on any current issue, event and story taken from English newspaper.</p> <p>Newspaper Reading : Reflective writing based on any current issue, event and story taken from English newspaper</p>

Mid- Term Exam (4/09/2019 - 14/09/2019)

Unit III (Post Mid-Term)		
Duration	Content	Subject Enrichment Activity
21/09/2019 to 10/12/2019	<p><u>Month-1</u> Flamingo : Poets and Pancakes : A Thing of Beauty (Poem) Vistas : Should Wizard hit Mommy : On the Face of it Writing : Letters Registering Complaint, Letters of enquiry, Speech. Reading : Comprehension passage</p> <p><u>Month-2</u> Flamingo : The Interview : A Road Side Stand Writing : Letters seeking and giving information, sending replies. Vistas : Evans Tries an O – level Reading : Comprehension passage</p>	

Post Mid- Term Exam(11/12/2019-20/12/2019)		
Duration	Content	Subject Enrichment Activity
21/12/2019 to 20/01/2020	<u>Month-1</u> Flamingo : Going Places : Aunt Jennifer's Tiger Vistas : Memories of Childhood Writing : Letters to Editors, Application for Job, Debate Writing Reading : Note Making and summarizing	
20/1/2020 – 01/03/2020	Revision	
Final Exam		

Subject :Mathematics

Grade : XII

Duration	Content	Subject Enrichment Activity
07/03/2019 To 17/05/2019	Matrices Determinates Inverse Trigonometric Functions Relations and Functions	
Pre Mid- Term Exam (18/05/2019 – 27/05/2019)		
Unit II (Mid-Term)		
Duration	Content	Subject Enrichment Activity
01/07/2019 To 03/09/2019	Relations and Functions contd.. Continuity and Differentiability Application of Derivatives Integrals	
Mid- Term Exam (4/09/2019 - 14/09/2019)		
Unit III (Post Mid-Term)		
Duration	Content	Subject Enrichment Activity
21/09/2019 to 10/12/2019	Applications of Integrals Differential Equations Linear Programming Vectors	
Post Mid- Term Exam(11/12/2019-20/12/2019)		
Duration	Content	Subject Enrichment Activity
21/12/2019 to 20/02/2020	Three Dimensional Geometry Probability	
21/2/2020 – 01/03/2020	Revision	
Final Exam		

Subject : Physics**Grade : XII**

Duration	Content	Subject Enrichment Activity
07/03/2019 To 17/05/2019	Chapter 1 : Electric charges and Fields Chapter 2 : Electrostatic potential and Capacitance Chapter 3 : Current electricity	Method to handle Assignments and numerical physics practical
Pre Mid- Term Exam (18/05/2019 – 27/05/2019)		
Unit II (Mid-Term)		
Duration	Content	Subject Enrichment Activity
01/07/2019 To 03/09/2019	Chapter 4 : Moving charges and Magnetism Chapter 5 : Magnetism and Matter Chapter 6 : Electromagnetic Induction Chapter 7 : Alternating Current Chapter 8 : Electromagnetic waves	Assignments Numericals and practical applications
Mid- Term Exam (4/09/2019 - 14/09/2019)		
Unit III (Post Mid-Term)		
Duration	Content	Subject Enrichment Activity
21/09/2019 to 10/12/2019	Chapter 9 : Ray Optics and Optical Instruments Chapter 10 : Wave optics Chapter 11 : Dual nature of Radiation and matter Chapter 12 : Atoms Chapter 13 : Nuclei	Assignments Numericals and practical applications
Post Mid- Term Exam(11/12/2019-20/12/2019)		
Duration	Content	Subject Enrichment Activity
21/12/2019 to 20/02/2020	Chapter 14 : Semiconductor Electronics : Materials, Devices and Simple Circuits Chapter 15 : Communication systems	Assignments Numericals and practical applications
20/2/2020 – 01/03/2020	Revision	
Final Exam		

Subject : Chemistry**Grade : XII**

Duration	Content	Subject Enrichment Activity
07/03/2019 To 17/05/2019	1. Solid state 2. Solutions 3. Electrochemistry 4. Chemical Kinetics	- Topic wise test - Chapter wise test - Assignments - Lab Activity Practical test
Pre Mid- Term Exam (18/05/2019 – 27/05/2019)		
Unit II (Mid-Term)		
Duration	Content	Subject Enrichment Activity

01/07/2019 To 03/09/2019	5. Surface chemistry 6. General principles and processes of Isolation of elements. 7. p – block elements 8. d and f – block elements 9. Coordination compounds	- Topic wise test - Chapter wise test - Assignments - Lab Activity Practical test
Mid- Term Exam (4/09/2019 - 14/09/2019)		
Unit III (Post Mid-Term)		
Duration	Content	Subject Enrichment Activity
21/09/2019 to 10/12/2019	10. Haloalkanes & Haloarenes 11. Alcohols, phenols and Ethers 12. Aldehydes, Ketones and Carboxylic acids. 13. Organic compounds containing nitrogen.	- Topic wise test - Chapter wise test - Assignments - Lab Activity Practical test
Post Mid- Term Exam(11/12/2019-20/12/2019)		
Duration	Content	Subject Enrichment Activity
21/12/2019 to 20/02/2020	14. Biomolecules 15. Polymers 16. Chemistry in everyday life	- Topic wise test - Chapter wise test - Assignments - Lab Activity Practical test
20/2/2020 – 01/03/2020	Revision	
Final Exam		

Subject : Biology

Grade : XII

Duration	Content	Subject Enrichment Activity
07/03/2019 To 17/05/2019	1. Reproduction in organisms 2. Sexual reproduction in flowering plants. 3. Human reproduction 4. Reproductive Health	1) To study pollen germination 2) To study the flowers adapted to pollination by different agencies 3) To study T.S of testis and L.S of ovary through permanent slide. 4) To study T.S. of blastula through permanent slide. 4) Study of Mitosis in onion root tip.
Pre Mid- Term Exam (18/05/2019 – 27/05/2019)		
Unit II (Mid-Term)		
Duration	Content	Subject Enrichment Activity

01/07/2019 To 03/09/2019	5. Principles of inheritance and variation 6. Molecular basis of inheritance 11. Biotechnology: Principles and Processes 12. Biotechnology and its application	6) To study action of salivary amylase on starch. 7) To study prepared pedigree charts and genetic traits. 8) To extract DNA from onion. 9) To study pH of different types of soil. 10) To study water holding capacity of garden soil and roadside soil.
Mid- Term Exam (4/09/2019 - 14/09/2019)		
Unit III (Post Mid-Term)		
Duration	Content	Subject Enrichment Activity
21/09/2019 to 10/12/2019	7. Evolution 8. Human health and diseases 9. Strategies for Enhancement in food production 10. Microbes in human welfare 13. Organisms and populations	11) To study adaptation of plants and animals found in xerophytes and aquatic conditions.
Post Mid- Term Exam(11/12/2019-20/12/2019)		
Duration	Content	Subject Enrichment Activity
21/12/2019 to 20/02/2020	14. Ecosystem 15. Biodiversity and conservation 16. Environmental Issues.	12) To study the different water samples for the presence of living organisms. 13) To study the presence of particulate matter in air.
20/2/2020 – 01/03/2020	Revision	
Final Exam		

Subject : Accountancy

Grade : XII

Duration	Content	Subject Enrichment Activity
07/03/2019 To 17/05/2019	1. Fundamental of partnership basic concepts 2. Goodwill 3. Change in profit sharing ratio among existing partners 4. Admission of partner 5. Retirement and Death of partner	- Notes will be given related to each chapter - Chapter wise test will be conducted - Topic wise test will be conducted - Quiz activity related to chapters
Pre Pre Mid- Term Exam (18/05/2019 – 27/05/2019)		
Unit II (Mid-Term)		
Duration	Content	Subject Enrichment Activity
01/07/2019 To 03/09/2019	6. Dissolution of partnership firm 7. Analysis of balance sheet 8. Common size and comparative study 9.A Ratio analysis - Liquidity and solvency ratio	- Notes will be given related to each chapter - Chapter wise test will be conducted - Topic wise test will be

	B 10.	Ratio analysis - Activity and Profitability ratios Cash flow statement analysis	conducted - Quiz activity related to chapters
Mid- Term Exam (4/09/2019 - 14/09/2019)			
Unit III (Post Mid-Term)			
Duration	Content		Subject Enrichment Activity
21/09/2019 to 10/12/2019	11. 12. 13.	Shares Debentures Not for profit organizations	- Notes will be given related to each chapter - Chapter wise test will be conducted - Topic wise test will be conducted - Quiz activity related to chapters
Post Mid- Term Exam(11/12/2019-20/12/2019)			
Duration	Content		Subject Enrichment Activity
21/12/2019 to 20/02/2020	13.	Project on Financial analysis Revision	- Notes will be given related to each chapter - Chapter wise test will be conducted - Topic wise test will be conducted - Quiz activity related to chapters
20/2/2020 – 01/03/2020	Revision		
Final Exam			

Subject :Business Studies

Grade : XII

Duration	Content	Subject Enrichment Activity
07/03/2019 To 17/05/2019	1. Management – Nature and significance 2. Principles of Management 3. Business Environment	Assignment - Topic wise Test - Case studies (Value based and concept based)
Pre Mid- Term Exam (18/05/2019 – 27/05/2019)		
Unit II (Mid-Term)		
Duration	Content	Subject Enrichment Activity
01/07/2019 To 03/09/2019	4. Planning 5. Organising 6. Staffing 7. Directing	Assignment - Preparation of Notes - High order thinking skills - Class Test (topic wise) - Case studies
Mid- Term Exam (4/09/2019 - 14/09/2019)		
Unit III (Post Mid-Term)		
Duration	Content	Subject Enrichment Activity

21/09/2019 to 10/12/2019	8. Controlling 9. Financial Management 10. Financial Market 11. Marketing	Assignment - Topic wise Test - Case studies - Project work
Post Mid- Term Exam(11/12/2019-20/12/2019)		
Duration	Content	Subject Enrichment Activity
21/12/2019 to 20/01/2020	12. Consumer Protection	Assignment - Topic wise Test - Case studies - Project work - Sample paper solving
20/1/2020 – 01/03/2020	Revision	
Final Exam		

Subject : Economics

Grade : XII

Duration	Content	Subject Enrichment Activity
07/03/2019 To 17/05/2019	1. : Basic Concepts (Macro) (Ch 1) 2. : National income and related aggregates (Ch 2) 3. : Methods of calculating National Income. (Value added & Income Methods) (Ch 3) 4. : Indian Economy (Ch 1)	Assignment Numerical
Pre Mid- Term Exam (18/05/2019 – 27/05/2019)		
Unit II (Mid-Term)		
Duration	Content	Subject Enrichment Activity
01/07/2019 To 03/09/2019	5. : Indian Economy (Ch 1) Five Year Plans (Ch 2) 6. : Features, problems and Policies of Agriculture. (Ch 3) 7. : Strategy of Industrial growth (Ch 4) 8. : Methods of calculating National Income. (Ch 4) (contd...) 9. : Money 10. : Banking 11. : Aggregate demand and its components 12. : India's Foreign Trade 13. : NEP, 1991	-
Mid- Term Exam (4/09/2019 - 14/09/2019)		
Unit III (Post Mid-Term)		
Duration	Content	Subject Enrichment Activity
21/09/2019 to 10/12/2019	14. : Short run Equ, output 15. : Deficient Demand & Excess Demand 16. : Government Budget 17. : Foreign Exchange rate 18. : BOP 19. : Poverty 20. : Human Capital Formation 21. : Rural Development	-

Post Mid- Term Exam(11/12/2019-20/12/2019)		
Duration	Content	Subject Enrichment Activity
21/12/2019 to 20/01/2020	22. : Employment and Unemployment 23. : Inflation 24. : Infrastructure 25. : Sustainable Development 26. : Comparative study of India, Pakistan and China.	
20/1/2020 – 01/03/2020	Revision	
Final Exam		

Subject :Music

Grade : XII

Duration	Content	Subject Enrichment Activity
07/03/2019 To 17/05/2019	Theory 1. Alankar, Varan, Kan, Dadra, Sadra 2. Classification of Ragas – ancient, medieval and modern 3. Detail study of Sangeet Ratnakar Granth 4. Description of prescribed Taals along with Tala Notation with Than , Dugun, Tigan and Chougun	Practical • Raga Bhairv 1. Drut Khayal 2. Swar Malika • Bageshri Raga 1. Drut Khayal 2. Tarana • One folk song Taals Tilwara and Rupak with Thah, Dugun and Chougan

Pre Mid- Term Exam (18/05/2019 – 27/05/2019)

Unit II (Mid-Term)		
Duration	Content	Subject Enrichment Activity
01/07/2019 To 03/09/2019	Theory: 1. Meend, Khatka, gram, Alap 2. Study of various parts of tanpura and tuning 3. Life sketch of Fiyaz Khan and Krishan Rao Shankar Pandit. 4. Critical study of prescribed Ragas.	Practical • Raga Malkouns 1. Drut Khayal 2. Lakshangeet 3. Dhmaar • One composition of sadra or dadra • Taals: Jhaptal and Dhamar Taal with Theka, dugun and chougan

Mid- Term Exam (4/09/2019 - 14/09/2019)

Unit III (Post Mid-Term)		
Duration	Content	Subject Enrichment Activity
21/09/2019 to 10/12/2019	Theory : 1. Murki, Ghamak, Murchhana, Taan 2. Historical development of time theory of ragas 3. Life sketch of Abdul Krim Khan and Bade Gulam ali Khan 4. Detail study of sangeet Parijat Granth	Practical • Raga Malkouns 1. Vilambit Khayal • Raga Bhairav 1. Vilambit Khayal

		<ul style="list-style-type: none"> • Raga Shudh Sarang 1. Drut Khayal • Taals: Tilwara, Taal, Rupak taal, Jhap taal and dhamar taal • Knowledge of the structure and tuning of Tanpura
Post Mid- Term Exam(11/12/2019-20/12/2019)		
Duration	Content	Subject Enrichment Activity
21/12/2019 to 20/01/2020	Revision of whole syllabus.	-
20/1/2020 – 01/03/2020	Revision	
Final Exam		

Subject :Political Science

Grade : XII

Duration	Content	Subject Enrichment Activity
07/03/2019 To 17/05/2019	Contemporary World Politics 1. The cold war era 2. The end of Bipolarity 3. Us hegemony in world politics 4. Alternative centres of powers 5. Contemporary South Asia	Map work Project work
Pre Mid- Term Exam (18/05/2019 – 27/05/2019)		
Unit II (Mid-Term)		
Duration	Content	Subject Enrichment Activity
01/07/2019 To 03/09/2019	6. International organizations 7. Security in the contemporary world 8. Environment and natural resources 9. Globalization	- Map work - Project work
Mid- Term Exam (4/09/2019 - 14/09/2019)		
Unit III (Post Mid-Term)		
Duration	Content	Subject Enrichment Activity
21/09/2019 to 10/12/2019	Politics In India Since Independence 1. Challenges of nation building 2. Era of one party dominance 3. Politics of planned development 4. India's external relations 5. Challenges to and restoration of the congress system	- Map work - Project work
Post Mid- Term Exam(11/12/2019-20/12/2019)		
Duration	Content	Subject Enrichment Activity

21/12/2019 to 20/02/2020	6. The crisis of democratic order 7. The rise of popular movements 8. Regional aspiration 9. Recent development in the Indian politics	- Map work - Project work
20/2/2020 – 01/03/2020	Revision	
Final Exam		

Subject :History

Grade : XII

Duration	Content	Subject Enrichment Activity
07/03/2019 To 17/05/2019	Part I Ch. 1. : The story of the First Cities : Harappan Archaeology Ch 2 : Political and Economic History : How Inscriptions tell a story Ch 3 : Social Histories : using the Mahabharata Ch 4 : A History of Buddhism : Sanchi Stupa	Map work Project work
Pre Mid- Term Exam (18/05/2019 – 27/05/2019)		
Unit II (Mid-Term)		
01/07/2019 To 03/09/2019	Part II Ch 5 : Medieval Society through Traveller’s Accounts Ch 6 : Religious Histories : The Bhakti – Sufi Tradition Ch 7 : New Architecture : Hampi Ch 8 : Agrarian Reations : The Ain – I – Akbari	Map work Project work
Mid- Term Exam (4/09/2019 - 14/09/2019)		
Unit III (Post Mid-Term)		
21/09/2019 to 10/12/2019	Ch 9 : The Mughal Court : Reconstructing Histories through Chronicles Part III Ch 10. : Colonialism and Rural Society : Evidence from Official Reports Ch 11 : Representations of 1857 Ch 12 Colonialism and Indian Towns : Town Plans and Municipal Reports	Map work Project work
Post Mid- Term Exam(11/12/2019-20/12/2019)		
Duration	Content	Subject Enrichment Activity
21/12/2019 to 20/01/2020	Ch 13 : Mahatma Gandhi through Contemporary Eyes Ch 14 : Partition through Oral Sources Ch 15 : The Making of the Constitution	Map work Project work
20/1/2020 – 01/03/2020	Revision	
Final Exam		

List of Maps

Book 1		
1	Page 2	Mature Harappan sites: • Harappa, Banawali, Kalibangan, Balakot, Rakhigarhi, Dholavira, Nageshwar, Lothal, Mohenjodaro, Chanhudaro, KotDiji.
2	Page 30	Mahajanapada and cities : • Vajji, Magadha, Kosala, Kuru, Panchala, Gandhara, Avanti, Rajgir, Ujjain, Taxila, Varanasi.
3	Page 33	Distribution of Ashokan inscriptions: • Kushanas, Shakas, Satavahanas, Vakatakas, Guptas • Cities/towns: Mathura, Kannauj, Braghukachchha • Pillar inscriptions -Sanchi, Topra, Meerut Pillar and Kaushambi. • Kingdom of Cholas, Cheras and Pandyas.
4	Page 43	Important kingdoms and towns: • Kushanas, Shakas, Satavahanas, Vakatakas, Guptas • Cities/towns: Mathura, Kanauj, Puhar, Rajgir, Vaishali, Varanasi, Vidisha
5	Page 95	Major Buddhist Sites: Nagarjunakonda, Sanchi, Amaravati, Lumbini, Nasik, Bharhut, BodhGaya, Ajanta.
Book 2		
6	Page 174	Bidar, Golconda, Bijapur, Vijayanagar, Chandragiri, Kanchipuram, Mysore, Thanjavur, Kolar
7	Page 214	Territories under Babur, Akbar and Aurangzeb: • Delhi, Agra, Panipat, Amber, Ajmer, Lahore, Goa
Book 3		
8	Page 297	Territories/cities under British Control in 1857: • Punjab, Sindh, Bombay, Madras Fort St. David, Masulipatam, Berar, Bengal, Bihar, Orissa, Avadh, Surat, Calcutta, Daccan, Chitagong, Patna, Benaras, Allahabad and Lucknow.
9	Page 305	Main centres of the Revolt of 1857: • Delhi, Meerut, Jhansi, Lucknow, Kanpur, Azamgarh, Calcutta, Benaras, Gwalior, Jabalpur, Agra, Avadh.
		Important centres of the National Movement: • Champaran, Kheda, Ahmedabad, Benaras, Amritsar, ChauriChaura, Lahore, Bardoli, Dandi, Bombay (Quit India Resolution), Karachi.

Weightage to content

Themes in Indian History (Part I)	24 marks
Themes in Indian History (Part II)	25 marks
Themes in Indian History (Part III)	25 marks
Map Work (Chapters 1 – 15)	6 marks
Project work	20 marks
Total	100 marks

Subject : Painting

Grade : XII

Duration	Content	Subject Enrichment Activity
07/03/2019 To 17/05/2019	The Rajasthani Miniature Painting - Origin and Development, Main Features and Study of few paintings The Pahari Miniature Paintings – Originated Development, Main features and study of few paintings.	- Still life study with pencil, pastel and water colour - Landscape study with pencil and water colour - Composition of Indoor

		games with water colour
Pre Mid- Term Exam (18/05/2019 – 27/05/2019)		
Unit II (Mid-Term)		
Duration	Content	Subject Enrichment Activity
01/07/2019 To 03/09/2019	<p>The Mughal School – Origin, development, main features, characteristics and study of few paintings.</p> <p>The Deccan school or Dakhani of Art – Origin, development, characteristics and study of few for paintings .</p> <p>The Indian National Flag and The Bengal School of Painting</p> <p>The Indian National flag 1906, 1921, 1947, symbolic significance.</p> <p>National Freedom Development and Movement – Origin and Development, Characteristics and few paintings.</p>	<ul style="list-style-type: none"> - Composition of village scene with postal and acrylic colours - Experimental with mixed media - Human figure study Animal and bird study with acrylic and water colours - Landscape paintings in different style – impressionistic, fourist and expressionistic
Mid- Term Exam (4/09/2019 - 14/09/2019)		
Unit III (Post Mid-Term)		
Duration	Content	Subject Enrichment Activity
21/09/2019 to 10/12/2019	<p>The Modern trends in Indian art , Contemporary Indian and Modern art, Study of the following paintings contemporary (Modern) – Paintings, Graphic Prints, Sculptures.</p>	<ul style="list-style-type: none"> - Portrait study in pencil, pastel and water colour - Figures study with pencil and water colour.
Post Mid- Term Exam(11/12/2019-20/12/2019)		
Duration	Content	Subject Enrichment Activity
21/12/2019 to 20/02/2020	Revision	-
Final Exam		