



BIRLA PUBLIC SCHOOL GANGANAGAR

(A UNIT OF BIRLA EDUCATION TRUST PILANI)



CBSE AFFILIATION NO. 1730974

Session: 2025-26

Class -XI A (SCIENCE)

Syllabus cum Schedule for Mid-Term Examination

Sr. No.	Date & Day	Subject	Syllabus (Chapter No. & Chapter Name)	Typology of questions with marks
1.	12/09/2025 FRIDAY	PHYSICS (PRACTICAL)	Practical:- 1. To measure the diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume. 2. Using a simple pendulum, plot its graph and use it to find the effective length of second's pendulum. Activities:- 1. To study the variation in range of a projectile with angle of projection. 2. To study the factors affecting the rate of loss of heat of a liquid.	
2.	13/09/2025 SATURDAY	CHEMISTRY (PRACTICAL)	A. Basic Laboratory Techniques 1. Cutting a glass tube and a glass rod 2. Bending a glass tube B. Characterization and Purification of Chemical Substances 1. Crystallization of an impure sample of any one of the following: Alum, Copper Sulphate. C. Experiments based on pH 1. Determination of the pH of some solutions obtained from fruit juices, 2. Solution of known and varied concentrations of acids, bases and salts D. Quantitative Estimation 1. Determination of the strength of a given solution of Sodium hydroxide by titrating it against a standard solution of Oxalic acid. 2. Preparation of a standard solution of Sodium carbonate. 3. Determination of the strength of a given solution of hydrochloric acid by titrating it	
3.	15/09/2025 MONDAY	COMPUTER SCIENCE (PRACTICAL)	Practical: Ch. 4 - Problem Solving, Ch. 5 - Programming with Python Ch. 6 - Python Basics Ch. 7 - Data Types and Operators Ch. 8 - Control Flow Statements	
		PSYCHOLOGY (PRACTICAL)	PRACTICAL FILE AND VIVA	Practical (20 Marks)
4.	16/09/2025 TUESDAY	BIOLOGY (PRACTICAL)	Practical:- 1. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound). 2. Preparation and study of T.S. of dicot and monocot roots and stems (primary). 3. Parts of a compound microscope. 4. Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant, and one lichen. 5. Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honeybee, snail, starfish, shark, rohu, frog, lizard, pigeon, and rabbit. 6. Types of inflorescence (cymose and racemose).	
		MATHS (PRACTICAL)	As part of the practical assessment, an MCQ-based Test will be conducted for Class XI covering Chapters 1 to 6 from the prescribed syllabus. <ul style="list-style-type: none"> Type of Test: Multiple Choice Questions (MCQ) Chapters Covered: Ch 1. Sets Ch 2. Relations and Functions Ch 3. Trigonometric functions Ch 4. Complex Numbers Ch 5. Linear inequalities Ch.6 Permutations and Combinations 	
5.	17/09/2025 WEDNESDAY	ENGLISH (PRACTICAL)	ASL	Practical (20 Marks)
6.	18/09/2025 THURSDAY	MUSIC THEORY AND PRACTICAL	<u>Theory</u> <u>Unit 1</u> The Rhymes and Melodies of Indian Music.	Theory (30 Marks) <u>Multiple Choice Questions</u> 1 Marks Each – 8Qs 8Marks

		<p>1.1Nada Shruti, Swara, Saptak, Thaata, Taal, Laya, Tala.</p> <p>1.2 Brief study of the following Margi-Desi Sangeet, Raga, Gat.</p> <p><u>Unit 2</u></p> <p>2.1 Brief History of the following Dhrupad, Mastikhani and Razakhni Gat</p> <p><u>Unit 3</u></p> <p>3.1 Brief study of Musical Elements in Natya Shastra</p> <p>3.2 Life sketch and Contribution of V.N.Bhatkhande</p> <p><u>Unit 4</u></p> <p>4.1 Description of Prescribed Talas along with Tala Notation- in Thah, Dugun and Chaugan prescribed Talas: Teentala Ektaala</p> <p><u>Unit 5</u></p> <p>Critical study of Prescribed Ragas along with Recognizing Ragas from phrases of Swaras and elaborating them. Excluding Raag Jaunpuri.</p> <p>Practical Raag Bhairavi, Bihaag Gat or Composition, Taal Notation. Teentaaal , Ektaal Parts and tuning of Instrument and questions regarding Instrument. Practical file (10 marks) Identifying the Ragas</p>	<p><u>Short Answer Questions</u></p> <p>5 Marks Each – 2Qs 10 Marks</p> <p><u>Long Answer Questions</u></p> <p>6 Marks Each – 2 Q 12 Marks</p> <p>Practical (70 Marks)</p> <ol style="list-style-type: none"> 1. <u>Raag Gat or Composition.</u> (25 marks) Bihaag & Bhairvi 2. <u>Taal Notation.</u> (15 marks) <ul style="list-style-type: none"> • Teentaaal • Ektaal 3. Parts and <u>Tuning</u> of <u>Instrument</u> and questions regarding Instrument. (10 marks) 4. <u>Practical file</u> (10 marks) 5. <u>Identifying the Ragas</u> (10 marks)
	<p>PAINTING THEORY AND PRACTICAL</p>	<p><u>Unit 1</u></p> <p>1. Content Pre-Historic Rock-Paintings 1 Introduction, Period and Location , Study and appreciation of following pre-historic paintings: Wizard's Dance, Bhimbethaka Extension: In about 1500 miles. Harappa & Mohenjodaro (Now in Pakistan) Ropar, Lothal, Rangpur, Alamgirpur, Kali Bangan, Banawali and Dholavira (in India)</p> <p><u>Unit 2</u></p> <p>1. Study and appreciation of following: Sculptures in Bronze and Terra cottas: Introduction to Method of Bronze casting Dancing girl (Mohenjodaro) Bronze, 10.5 x 5 x 2.5 cm. Circa 2500 B.C. (Collection: National Museum, New Delhi). Male Torso (Harappa) Red lime Stone, 9.2 x 5.8 x 3 cms. Circa 2500 B.C. (Collection: National Museum, New Delhi) Mother Goddess (Mohenjodaro) terracotta, 22 x 8 x 5 c Circa 2500 B.C. (Collection: National Museum, New Delhi)</p> <p><u>Unit 3</u></p>	<p>Multiple Choice: 01 Mark each (08 Q.) Short Type Questions 03 Marks each (04 Q.) Long Type Questions 05 Marks each (02 Q.)</p>

			1. Study and appreciation of following Seal: Bull (Mohenjo-daro)Stone (Steatite), 2.5 x 2.5 x 1.4 cm. Circa 2500 B.C. (Collection: National Museum, New Delhi).	
7.	20/09/2025 SATURDAY	CHEMISTRY	Book Name: Chemistry Textbook For Class XI Ch.1 (Some Basic Concepts of Chemistry), Ch.2 (Structure of Atom) Ch.3 (Classification of Elements and Periodicity in Properties) Ch.4 (Chemical Bonding and Molecular Structure) Ch.5 (Thermodynamics)	Theory(70 marks) + Practical (30 marks) 1. Question 1(12 Multiple choice & 04 Assertion reason) has 16 parts, each worth 1 mark, in Section A. 2. Question 2 (Very short) contains five questions, each worth 2 marks, in Section B. 3. Question 3(Short) contains 7 questions, each worth 3 marks, in Section C. 4. Question 4(case-based) contains two questions, each worth 4 marks, in Section Question 5 (Long answer type)contains three questions, each worth 5 marks, in Section E.
8.	23/09/2025 TUESDAY	PHYSICS	Book Name: Physics Textbook For Class XI Ch.1 (Units And Measurement), Ch.2 (Motion In A Straight Line), Ch.3 (Motion In A Plane), Ch.4 (Laws Of Motion), Ch.5 (Work, Energy And Power), Ch.7 (Gravitation)	Theory(70 marks) + Practical (30 marks) 1. Question 1(12 Multiple choice & 04 Assertion reason) has 16 parts, each worth 1 mark, in Section A. 2. Question 2 (Very short) contains five questions, each worth 2 marks, in Section B. 3. Question 3(Short) contains 7 questions, each worth 3 marks, in Section C. 4. Question 4(case-based) contains two questions, each worth 4 marks, in Section Question 5 (Long answer type)contains three questions, each worth 5 marks, in Section E.
9.	25/09/2025 THURSDAY	PSYCHOLOGY	Chapter-1 What is Psychology Chapter -2: Methods of Enquiry in Psychology Chapter 3 - Human Development	Theory (70 Marks) 1. All questions are compulsory except where internal choice has been given. 2. Question Nos.1-14 in Section A carry 1 mark each. You are expected to answer them as directed. 3. Question Nos. 15-19 in Section B are very short answer type-I questions carrying 2 marks each. The answer to each question should not exceed 30 words. 4. Question Nos. 20-23 in Section C are short answer type-II questions carrying 3 marks each. The answer to each question should not exceed 60 words. 5. Question Nos. 24 - 27 in Section D are long answer type-I questions carrying 4 marks each. The answer to each question should not exceed 120 words. 6. Question Nos. 28-29 in Section E are long answer type-II questions carrying 6 marks each. The answer to each question should not exceed 200 words. 7. Question Nos.30–33 in Section F are based on two cases given. The answer to each one-mark question should not exceed 20 words. The answer to each two-mark question should not exceed 30 words.
		COMPUTER SCIENCE	Book Name: Kips Computer Science with Python Class 11 Ch. 14 - Society, Law & Ethics - I Ch. 15 - Society, Law & Ethics - II Ch. 4 - Problem Solving Ch. 5 - Programming with Python Ch. 6 - Python Basics Ch. 7 - Data Types and Operators Ch. 8 - Control Flow Statements	1. Section A consists of 21 questions (1 to 21). Each question carries 1 Mark. 2. Section B consists of 7 questions (22 to 28). Each question carries 2 Marks. 3. Section C consists of 3 questions (29 to 31). Each question carries 3 Marks. 4. Section D consists of 4 questions (32 to 35). Each question carries 4 Marks. 5. Section E consists of 2 questions (36 to 37). Each question carries 5 Marks.
		MATHS(only opted as 5 th subject)	Book Name : NCERT Ch 1.Sets Ch 2. Relation and Functions Ch 3. Trigonometric functions Ch 4. Complex Numbers Ch 5. Linear inequalities Ch.6 Permutations and Combinations	1. Section A, Questions no. 1-18 are multiple choice questions (MCQs) and questions no. 19 and 20 are Assertion- Reason based questions of 1 mark each. 2. In Section B, Questions no. 21-25 are very short answer (VSA) type questions, carrying 02 marks each. 3. In Section C, Questions no. 26-31 are short answer (SA) type questions, carrying 03 marks each.

				<p>4. In Section D, Questions no. 32-35 are long answer (LA) type questions, carrying 05 marks each.</p> <p>5. In Section E, Questions no. 36-38 are case study based questions carrying 4 marks each with sub parts of the values of 1, 1 and 2 marks each respectively.</p> <p>All Questions are compulsory. However, an internal choice in 2 Question of Section B, 2 Questions of Section C and 2 Questions of Section D has been provided. An internal choice has been provided in all the 2 marks questions of Section E.</p>
10.	27/09/2025 SATURDAY	ENGLISH	<p>I. Reading Comprehension through Unseen Passage</p> <p>1) Discursive passage 2) Case-based factual passage</p> <ul style="list-style-type: none"> Note Making and Summarisation <p>Writing- Short Writing Task: Classified Advertisement and Poster Making</p> <p>Grammar-</p> <p>1) Questions on Gap filling (Tenses, Clauses) 2) Questions on re-ordering/transformation of sentences</p> <p>Literature- Hornbill</p> <p>1) The Portrait of a Lady (Prose) 2) A Photograph (Poem) 3) “We’re Not Afraid to Die... if We Can Be Together 4) Discovering Tut: The Saga Continues 5) The Laburnum Top (Poem)</p> <p>Snapshot</p> <p>1) The Summer of the Beautiful White Horse (Prose) 2) The Address (Prose)</p>	<p>Section A - (26 marks)</p> <ul style="list-style-type: none"> Unseen Passage: (18 marks) <p>1) Discursive passage (1*10=10 marks) 2) Case-based factual passage (1*8=8 marks)</p> <p>Multiple Choice Questions / Objective Type Questions/Very Short Answer Questions will be asked.</p> <ul style="list-style-type: none"> Note Making and Summarisation (5+3=8 marks) <p>Section B - (23 marks) Grammar and Creative Writing:</p> <p>Grammar- (7 marks)</p> <p>1) Questions on Gap filling (Tenses, Clauses) 2) Questions on re-ordering/transformation of sentences</p> <p>Creative Writing- (16 marks)</p> <p>1) Short Writing Task: a) Classified Advertisement (1*3=3) b) Poster Making (1*3=3)</p> <p>2) Long Writing Task: a) Speech Writing (10 marks)</p> <p>Section C - (31 marks) Literature:</p> <ul style="list-style-type: none"> Extract based questions <p>1) One extract out of two, from prose to be answered. (Hornbill) (3*1=3 marks) 2) One extract out of two, from poetry to be answered. (Hornbill) (3*1=3 marks) 3) One extract out of two, from prose to be answered. (Snapshot) (4*1=4 marks)</p> <p>Multiple Choice Questions / Objective Type Questions will be asked</p> <ul style="list-style-type: none"> Short & Long Answer Questions <p>1) Two Short answer type questions to be answered (one from Prose and one from Poetry, from the book Hornbill). (3*2=6 marks) 2) One Short answer type question, from the book Snapshots, to be answered in 40- 50 words. (3*1=3 marks) 3) One Long answer type question, from Prose/Poetry of Hornbill, to be answered in 120-150 words.. (1*6=6 marks)</p> <p>One Long answer type question, based on the chapters from the book Snapshots, to be answered in 120-150 words. (1*6=6 marks)</p>
11.	29/09/2024 MONDAY	<p>BIOLOGY</p> <p>Book Name: Biology Textbook For Class XI Ch.1.(The Living World), Ch.2 (Biological Classification), Ch.3. (Plant Kingdom), Ch.4 (Animal Kingdom), Ch.5 (Morphology Of Flowering Plants), Ch.6 (Anatomy Of Flowering Plants), Ch.7 (Structural Organization In Animals), Ch.8 (Cell), Ch.9 (Biomolecules)</p>	<p>Book Name : NCERT Ch 1.Sets Ch 2. Relation and Functions Ch 3. Trigonometric functions Ch 4. Complex Numbers Ch 5. Linear inequalities Ch.6 Permutations and Combinations</p>	<p>Theory(70 marks) + Practical (30 marks)</p> <p>1. Question 1(12 Multiple choice & 04 Assertion reason) has 16 parts, each worth 1 mark, in Section A.</p> <p>2. Question 2 (Very short) contains five questions, each worth 2 marks, in Section B.</p> <p>3. Question 3(Short) contains 7 questions, each worth 3 marks, in Section C.</p> <p>4. Question 4(case-based) contains two questions, each worth 4 marks, in Section</p> <p>5. Question 5 (Long answer type)contains three questions, each worth 5 marks, in Section E.</p> <p>1. Section A, Questions no. 1-18 are multiple choice questions (MCQs) and questions no. 19 and 20 are Assertion- Reason based questions of 1 mark each.</p> <p>2. In Section B, Questions no. 21-25 are very short answer (VSA) type questions, carrying 02 marks each.</p> <p>3. In Section C, Questions no. 26-31 are short answer (SA) type questions, carrying 03 marks each.</p>

				<p>4. In Section D, Questions no. 32-35 are long answer (LA) type questions, carrying 05 marks each.</p> <p>5. In Section E, Questions no. 36-38 are case study based questions carrying 4 marks each, with sub parts of the values of 1, 1, and 2 marks each, respectively.</p> <p>6. All Questions are compulsory. However, an internal choice in 2 Question of Section B, 2 Questions of Section C and 2 Questions of Section D has been provided. An internal choice has been provided in all the 2-mark questions of Section E.</p>
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Note: -
Students are required to wear the main uniform on all exam days. School reporting time will be 08:00 A.M from 20th September 2025. Reporting time will be 08:00 A.M. Attendance & fruit break - 08:00 A.M. to 08:15 A.M. by the Class Teacher, **Exam time** – 08:15 A.M to 08:30 A.M (Reading time),08:30 A.M. to 11:30 A.M. (Writing time), **Lunch** – 11:30 A.M. to 11:50 A.M. **Dispersal time will be 11:50 A.M.** There will be a preparatory holiday on the following days: 22.09.2025 (Navratana Sathapana),24.09.2025, 26.09.2025, 28.09.2025, There will be regular school on 29.09.2025, In case the child is medically unfit (fever, headache, stomachache, etc.), do not send your ward to the school for only giving an exam. Please send a medical certificate via WhatsApp or email to the class teacher, informing them only. Students will bring fruit, lunch, and water bottles. Only the answer should be written in the answer script with the correct no. of the question. No cardboard is allowed.

WISH YOU ALL THE BEST
 Regards
 BPSG

