

CANTONMENT PUBLIC SCHOOL & COLLEGE

(English Version, JES)

Jahanabad Cantonment

Syllabus Extension - 2024

Class: STD-X

Informal Education

Marks – 50

	Manners & Etiquette		Discipline
1	Greetings: (Students must greet their teachers & parents at the time of arrival at and departure from home & school. they must also greet the other members of their family. neighbors and playmates once every day)	1	Personal Hygiene: (Students must clip their nails, brush teeth, comb hair, have shower with soap & shampoo, put on clean & decent clothers, shoes & socks etc. regularly)
2	Politeness & Modesty : (Students must apologize in case of doing anything wrong, thank for receiving any favor, say “Excuse me” to draw attention of someone etc)	2	Punctuality : (It is one of the keys to success in life)
3	Sharing & Caring: (Every student must share something - a chocolate, a sticker, a flower, anything with a classmate / playmate – at least once a week / 4 times a month)	3	Keeping the environment clean: (Besides maintaining personal hygiene. students must contribute to the cleanliness of the environment - both on campus and off campus)
4	Empathy : (Students should share the feelings of a sufferer)	4	Queuing : (Students must always wait in a queue for their turn; must never overtake someone waiting before them)
5	Covering mouth & nose while sneezing or coughing	5	Students must maintain discipline in the class room, in the corridor, in the playground, on the way from & to home- wherever they are.
6	Respect for every living being: (Students must respect to every human being irrespective of color, creed, race, religion or occupation. they must respect all the creatures, trees & plants on earth too)	6	Frugality in using resources: (Students have to be frugal in using all the resources available at school & home)
7	Speaking the truth : (even under pressure)	7	Organizing & Managing personal belongings : (books, copies, bag, pens & pencils etc)
8	Sacrifice : (If needed, Students should give up self-interest for the sake of others)	8	Speaking English : (you are judged by your effort, not by the mistakes you make)
9	Using standard language – both Bangla & English. (Students must try to avoid local accent & pronunciation while speaking)	9	Attention to the speaker : (listen first to the last, then speak; never interrupt)
10	Clemency : (Forgiveness is a great virtue. Speaking ill of others is a sin)		Maintaining a daily routine: (every student must maintain a daily routine of his/her own special occasions & unpredictable incidents may replace a routine activity)

**CANTONMENT PUBLIC SCHOOL & COLLEGE
(ENGLISH VERSION-JES)**

Class: STD- X

বিষয় :বাংলা ১ম পত্র

বইয়ের নাম	লেখকের নাম	প্রকাশক
১। মাধ্যমিক বাংলা সাহিত্য : (গদ্য ও কবিতা)	-	বোর্ড কর্তৃক প্রকাশিত
২। সহপাঠ - (ক) উপন্যাস: কাকতালুয়া (খ) নাটক: বহির্পীর	(ক) সেলিনা হোসেন (খ) সৈয়দ ওয়ালীউল্লাহ	বোর্ড কর্তৃক প্রকাশিত

১ম শ্রেণি অভীক্ষা

গদ্য	কবিতা
১। একান্তরের দিনগুলি	১। আমার পরিচয়
২। সাহিত্যের রূপ ও রীতি	২। স্বাধীনতা, এ শব্দটি কীভাবে আমাদের হলো

প্রাক-নির্বাচনী ও নির্বাচনী পরীক্ষা: এসএসসি পরীক্ষার জন্য এনসিটিবি কর্তৃক নির্ধারিত সম্পূর্ণ পাঠ্যসূচি

১ম শ্রেণি অভীক্ষা প্রশ্নের ধারা ও মানবন্টন

সৃজনশীল ২টি প্রশ্ন থাকবে (গদ্য থেকে ১টি, কবিতা থেকে ১টি)। গদ্যাংশ ও কবিতাংশ থেকে ১টি প্রশ্নের উত্তর দিতে হবে। $10 \times 1 = 10$
বহুনির্বাচনী ১০ টি প্রশ্ন থাকবে (গদ্য থেকে ৫টি, কবিতা থেকে ৫টি)। সব কয়টি প্রশ্নের উত্তর দিতে হবে। $1 \times 10 = 10$
মোট= ২০

প্রাক নির্বাচনী ও নির্বাচনী পরীক্ষার জন্য (বোর্ড অনুযায়ী প্রশ্নের ধারা ও মানবন্টন)

সকল পর্ব পরীক্ষার জন্য (বোর্ড অনুযায়ী প্রশ্নের ধারা ও মানবন্টন) সৃজনশীল প্রশ্ন ১১টি প্রশ্ন থাকবে (গদ্য থেকে ৪টি, কবিতা থেকে ৩টি, সহপাঠ অংশের উপন্যাস থেকে ২টি, নাটক থেকে ২টি)।

গদ্যাংশ থেকে ন্যূনতম ২টি, কবিতাংশ থেকে ন্যূনতম ২টি, উপন্যাস অংশ থেকে ন্যূনতম ১টি, ও নাটক অংশ থেকে ন্যূনতম

১টি- প্রশ্নসহ মোট ৭টি প্রশ্নের উত্তর দিতে হবে।

$10 \times 9 = 90$

বহুনির্বাচনী প্রশ্ন : ৩০ টি (গদ্য থেকে ১২টি, কবিতা থেকে ১২ টি এবং সহপাঠ অংশের উপন্যাস থেকে ৩টি, নাটক থেকে

৩টি প্রশ্ন থাকবে। সবকয়টি প্রশ্নের উত্তর দিতে হবে।

$1 \times 30 = 30$

মোট = ১০০

বিষয় :বাংলা দ্বিতীয় পত্র

১। বাংলা ভাষার ব্যাকরণ ও নির্মিতি	-	বোর্ড কর্তৃক প্রকাশিত
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১ম শ্রেণি অভীক্ষা

ব্যাকরণ	পরিচ্ছেদ: ৩১ থেকে ৪৩
সারমর্ম	৮- ১০
সারাংশ	৮- ১০
ভাবসম্প্রসারণ	১১- ১৫

প্রাকনির্বাচনী ও নির্বাচনী পরীক্ষা: এসএসসি পরীক্ষার জন্য এনসিটিবি কর্তৃক নির্ধারিত সম্পূর্ণ পাঠ্যসূচি

১ম শ্রেণি অভীক্ষা প্রশ্নের ধারা ও মানবন্টন:

সারাংশ, সারমর্ম বা ভাবসম্প্রসারণ -২টির মধ্যে ১টি প্রশ্নের উত্তর দিতে হবে।

$10 \times 1 = 10$

বহুনির্বাচনী ১০ টি প্রশ্ন থাকবে। সব কয়টি প্রশ্নের উত্তর দিতে হবে।

$1 \times 10 = 10$

মোট = ২০

প্রাকনির্বাচনী ও নির্বাচনী পরীক্ষার জন্য (বোর্ড অনুযায়ী প্রশ্নের ধারা ও মানবন্টন)

ক। রচনা মূলক প্রশ্ন : ৭০ নম্বর

১. অনুচ্ছেদ রচনা -২টির মধ্যে ১টি	১০
২. পত্র -২টির মধ্যে ১টি	১০
৩. সারাংশ বা সারমর্ম -২টির মধ্যে ১টি	১০
৪. ভাব-সম্প্রসারণ -২টির মধ্যে ১টি	১০
৫. প্রতিবেদন প্রণয়ন -২টির মধ্যে ১টি	১০
৬. প্রবন্ধ/রচনা লিখন -৩টির মধ্যে ১টি	২০

মোট=৭০

খ। বহুনির্বাচনী প্রশ্ন : ৩০ নম্বর

ব্যাকরণ অংশ এবং নির্মিতি অংশের কেবল বাগধারা, বাক্য সংক্ষেপণ ও প্রবাদ প্রবচন অংশ = ৩০

মোট=(৭০+৩০)=১০০

Subject: English 1st Paper

List of Books:

1. English for Today - NCTB.
2. English Grammar & Composition - NCTB
3. Advanced Learner's Communicative English Grammar & Composition – Chowdhury & Hossain

Syllabus of First CT Examination:

1. English For Today: (Seen Passage)
Unit Eleven : Renewable energy
Unit Twelve: Roots
Unit Thirteen: Media and modes of e-communication
Unit Fourteen: Pleasure and Purpose
2. **Informal Letters:**
 - a. About your visit to the National Memorial.
 - b. About bad effects of over population.
 - c. About the importance of e-communications.
 - d. About annual sports of your school.
 - e. About your visit to a village fair.
 - f. About your plan after SSC Examination.
 - g. About bad effects of smoking.
 - h. About your country to a pen friend.
 - i. About describing an accident.
 - j. About your aim in life.
3. **Paragraphs:**
 - a. A Bus Stand.
 - b. A Railway Station.
 - c. A Tea Stall.
 - d. A street Hawker
 - e. Tree Plantation.
 - f. Your Homeland.
 - g. Internet.
 - h. Water Pollution.
 - i. Air Pollution.
 - j. Your School Library
4. **Dialogues:**
 - a. About pastime between two friends.
 - b. About the importance of physical exercise.
 - c. About the importance of learning English.
 - d. About the importance of reading Newspaper.
 - e. About opening a bank account.
 - f. About leave of absence for three days.
 - g. About admission in a new school with the Headmaster.
 - h. About air pollution (cause, effect, remedy).
 - i. About issuing a transfer certificate.
 - j. About how to eradicate illiteracy.
5. **Completing Stories: (Within 10 new sentences)**
 - a. Failure is the Pillar of Success.
 - b. A Poor Cobbler.
 - c. Sheikh Saadi.
 - d. The Crow and the Pitcher.
 - e. Hamelin, a Town in Germany.
 - f. A Fox without a Tail.
 - g. The Goose that Laid Golden Egg.
 - h. Saving a Drowning Boy.
 - i. Rakibul got a Money Bag.
 - j. The Hare and the Tortoise
6. **Describing Graphs/Charts: (Unseen)**

Syllabus of Pre-Test Examination

1. **English for Today:** All Units (Seen passage)
2. **Informal Letters:**
 - a. To a foreign friend describing the natural beauty of your country.
 - b. About how you have celebrated the last 21st February.
 - c. About your preparation for the ensuing exam.
 - d. Thanking a friend for his hospitality.
 - e. Congratulating on a brilliant result.
 - f. About foods and food habits of Bangladeshi people.
 - g. About your visit to a place of historic place.
 - h. About the benefits of rising early.
 - i. About co-curricular activities of your school.
 - j. About the benefits of reading newspaper.
 - k. k. With board standard.

3. Paragraphs:

- a. Your Visit to a Book Fair.
- b. A Day Labourer.
- c. Load Shedding.
- d. Deforestation.
- e. Your School Magazine.
- f. A Farmer.
- g. Pahela Baishakh.
- h. A winter Morning.
- i. A Fisherman.
- j. Your visit to a place of Historic interest.
- k. With board standard.

4. Dialogues:

- a. About your plan after SSC Exam.
- b. About your problems with a doctor.
- c. About the benefits of early rising.
- d. About your preparation for SSC Exam.
- e. About removing illiteracy.
- f. About Load shedding (cause, effect and remedy).
- g. About merits and demerits of city and village life.
- h. About buying a pair of shoes.
- i. About congratulating on brilliant success.
- j. About merits and demerits of mobile phone.
- k. With board standard.

5. Completing Stories: (Within new 10 sentences)

- a. The Fox and the Crow.
- b. The Clever Crow and the Dog.
- c. The Lion and the Mouse.
- d. A Scholar and a Boatman.
- e. Unity is strength.
- f. A Thirsty Crow.
- g. A Boy Saved a Train from an Accident.
- h. The Golden Touch.
- i. A Sensible Boy Took an Old Lady to Hospital.
- j. Honesty of a Rickshaw Puller.
- k. With board standard.

6. Describing Graphs/Charts: (Unseen)

Test & Model Test Examinations: According to NCTB Syllabus.

Marks Distribution of 1st Term-end/Pre-Test/Test Examination /Model Tests and S.S.C. Examination:

Part –A: (Reading Test, Marks: 50)

	Part 1 Seen passage		
1.	Multiple Choice Question	$1 \times 7 =$	07
2.	Answering question (Open & close ended).	$2 \times 5 =$	10
3.	Seen passage Gaps without clue.	$1 \times 5 =$	05
	Part 2 Unseen Passage		
4.	Information Transfer	$1 \times 5 =$	05
5.	Summarizing		10
	Part 3		
6.	Matching the parts of the sentences	$1 \times 5 =$	05
7.	Rearranging sentences	$1 \times 8 =$	08

Part – B: (Writing Test, Marks: 50.)

8.	Paragraph: answering questions (no option).	10
9.	Completing a story (no option).	10
10.	Describing graph/chart (no option).	10
11.	Informal Letter (no option).	10
12.	Dialogue writing (no option).	10
	Total	100

English 2nd Paper

List of Books:

1. English Grammar and Composition – NCTB
2. Advanced Learner’s Communicative English Grammar & Composition – Chowdhury & Hossain

Syllabus of First CT Examination

Part- A: Grammar (Marks-60)

Revision of all the grammatical items.

- | | | |
|---------------------------|--|--------------------------------|
| 1. Gap filling with clues | 2. Gap filling without clues | 3. Substitution table |
| 4. Right form of verbs | 5. Narration | 6. Transformation of sentences |
| 7. Completing Sentences | 8. Suffix-prefix | 9. Tag questions |
| 10. Sentence connectors | 11. Capitalization and Punctuation marks | |

Part- B: Compositions (Marks-40)

1. Writing C.V with Cover Letter:

- a. For the post of an English/Bangla teacher. b. For the post of a Senior/Junior Officer in a bank.
c. For the post of an Auditor/Accountant. d. For the post of a Nurse in a hospital.
e. For the post of an IT programmer in a firm. f. For the post of a Librarian.

2. Formal Letters/e-mails:

- a. Requesting for increasing library /common room facilities.
b. Requesting for taking steps to set up a language/computer club.
c. Requesting for a seat in the hostel.
d. Requesting for a testimonial.
e. Seeking permission to go on a study tour.
f. Complaining against the antisocial activities in your locality.
g. Write a letter to the editor of a newspaper about price hike of commodities.
h. Prayer for setting up a canteen in the school Campus.
i. Prayer for financial help/full free studentship.
j. Prayer for opening a debating Club in the school Campus.
k. Suppose you are the secretary of magazine committee. You are going to publish a wall magazine. Now write a notice about collecting writings from the students.
l. Notice for observing Victory Day.

3. Paragraphs:

- | | |
|----------------------------------|-----------------------------|
| a. The benefits of Early Rising. | b. Tree Plantation. |
| c. Load Shedding. | d. Independence Day. |
| e. A Day Labourer. | f. A tea Stall. |
| g. Our National Flag. | h. A Book Fair You Visited. |
| i. Mobile Phone | j. A Rainy Day |

4. Compositions:

- | | |
|--|------------------------------|
| a. Journey by Train/Bus. | b. Science in Everyday Life. |
| c. Your Visit To A Historical Place. | d. Duties of a Student. |
| e. Your Native Village. | f. Physical Exercise |
| g. A Village Fair/Market. | h. The Season You like Most. |
| i. Newspaper/ Importance of Reading Newspaper. | j. Your Hobby. |

Syllabus of Pre-Test Examination

Part A: Grammar (Marks-60)

- | | | |
|---------------------------|--------------------------------|--|
| 1. Gap filling with clues | 2. Gap filling without clues | |
| 3. Substitution table | 4. Right form of verbs | |
| 5. Narration | 6. Transformation of sentences | |
| 7. Completing Sentences | 8. Suffix-prefix | |
| 9. Tag questions | 10. Sentence connectors | 11. Capitalization and Punctuation marks |

Part B: Compositions (Marks-40)

1. Writing C.V with Cover Letter:

- a. For the post of a Medical Representative. b. For the post of an Operator in a mobile company.
c. For the post of a Manager in a customer care. d. For the post of a Receptionist.
e. For the post of a Computer Operator in an office. f. With board standard.

2. **Formal Letters/e-mails:**

- a. Write an e-mail for inviting your pen friend to visit your country.
- b. Prayer for relief and medical aids for the flood victims.
- c. Write an e-mail for booking a seat for you.
- d. Request for setting up a debating club in the school.
- e. Write an e-mail wishing your friend on his brilliant success in the SSC exam
- f. Requesting for constructing a bridge/road. g. Requesting for repairing a road/bridge.
- h. Prayer for increasing common room facilities. i. Notice for the vacation leave of your institute.
- j. Prayer for a Transfer Certificate. k. Prayer for Admission. j. With board standard.

3. **Paragraphs:**

- a. A school Magazine. b. Traffic Jam. c. Deforestation.
- d. A Road Accident. e. The life of a Farmer. f. Environment Pollution.
- g. Your School Library. h. A winter Morning. i. A Rickshaw Puller.
- j. A Science Fair That I Have Visited Recently. l. With board standard.

4. **Compositions:**

- a. A Village Market. b. Journey By Boat/ A Journey You Have Recently Made.
- c. Tree Plantation. d. Wonders of Modern Science.
- e. The Game You Like Most. f. Student Life.
- g. What I Want To Be/Your Aim in Life. h. Your Childhood Memories.
- i. The Uses Of Computer In Everyday Life. j. Recent floods in Bangladesh.
- k. With board standard.

Test/Model Test Examination (As per NCTB syllabus)

* Whole syllabus

Marks Distributions of First Term/Pre-Test/Test/Model Tests and S.S.C. Examination

Part -A: Grammar Marks 60

1.	Gap filling activities without clues (Article, Preposition, Parts of Speech.	0.5×10	05
2.	Gap filling activities with clues (Article, Preposition, Parts of Speech.	0.5×10	05
3.	Substitution Tables	1×5	05
4.	Right form of verbs	0.5×10	05
5.	Speech Narrative Style		05
6.	Changing sentence (Voice, Sentence, patterns and degree vice-versa.)	1×10	10
7.	Completing sentences	1×5	05
8.	Use of suffix and prefix	0.5×10	05
9.	Tag Questions	1×5	05
10.	Sentence Connectors	1×5	05
11.	Punctuation	-	05

Part-B: Compositions Marks 40.

12.	Writing CV with cover letter	-	08
13.	Formal letters /E-mails (complaint, letters, notice, request etc.)	-	10
14.	Paragraphs (listing/narrating/compression and contrast/cause and effect)	-	10
15.	Composition	-	12

Instructions: Test items must have contexts. Sentences which are isolated and out of context cannot be given as questions. Question setters will prepare the test items. No questions will be set from the text book or / and help books.

Subject: Mathematics

Text Book: Mathematics, Classes Nine-Ten (By NCTB, Dhaka)

First CT Examination Syllabus:

Algebra	: Chapter: Three, Eleven, Twelve and Thirteen.	Geometry
	: Chapter: Seven and Fifteen.	
Trigonometry	: Chapter: Ten	
Menstruation	: Chapter: Sixteen.	
Statistics	: Chapter: Seventeen.	

Pre-Test and Test Examination Syllabus

Whole Syllabus of SSC Examination-2025

Marks Distribution for First Term, Pre-Test and Test Examination

- 70 marks for creative questions and 30 marks for MCQ.
- 10 marks for each creative question and 1 mark for each MCQ.
- Creative Question:**
 - * 7 creative questions are to be answered out of 11.
 - * There will be 3 questions from Algebra, 3 from Geometry, 3 from Trigonometry & Menstruation and 2 from Statistics.
 - * 7 questions are to be answered taking at least 2 from Algebra, 2 from Geometry, 2 from Trigonometry & Menstruation and 1 from Statistics.
- Multiple Choice Questions:**
 - * There will be 30 MCQ (10-12 from Algebra, 10-12 from Geometry, 4-6 from Trigonometry & Menstruation and 3-5 from Statistics) and all the questions are to be answered.
 - * The percentage of thoughtful skilled questions are: Easy stage- 50%, Medium -30% and difficult- 20%.
 - * Three types (Simple, Multiple completion and situation set) of MCQ will be set in the question paper.

Subject: Bangladesh and Global Studies

Book's Name: Bangladesh and Global Studies (Published by NCTB)

First CTE Exam Syllabus:

Chapter-4 : The configuration of land and the climate of Bangladesh.

Chapter-7 : The Organs of Bangladesh Government and the Administrative System

Chapter-16 : Social Problems of Bangladesh and Their Remedies

Pre-Test Exam: All Syllabuses.

Test Exam : All Syllabuses.

Marks Distribution for all Examination:

1. Creative Questions (7 questions out of 11 are to be answered) $10 \times 7 = 70$

2. MCQ (30 questions are to be answered) : $1 \times 30 = 30$

Total = 100

Subject: Islam and Moral Education

Name of the book: Islam and Moral Education (Published by Board)

First CT Exam :

- Chapter 1 : **Aquaid and Moral Life (Lesson : 13-15):** Akhirat, Some levels of the life of Akhira. Role of Faith in Akhira in forming a moral life and a life of good deeds.
- Chapter 2 : **Source of Shariat (Lesson : 11-24):** Ten Hadith of The great Prophet (Sm), Ijma, Al-Kius, terminologies related to the Ahkams of Shariat.
- Chapter 3 : **Ibadat (Lesson : 11-13):** Zihad, Zihad and Terrorism.

- Chapter 4 : **Akhlaque**(Lesson : 16-22):Akhlaque-e- Zamimah, Fraud, Ghibat (Back-biting), Jealousy, Fitna and Fasad, Laziness, Usury and bribe.
- Chapter 5 : **Model Lives** (Lesson : 1-16): Muslim Scholars, Imam Bukhari (R), Imam Abu Hanifa (R), Imam Gazzali (R),IbnJarirTabari Contribution of the Muslims in the practice of knowledge of science and technology, Medicine, Chemistry, Geography, Mathematics.

Pre-test & Test Exam. : As Per Board Syllabus

Marks Distribution- for First Term, Pre-Test & Test Examination

1.	Creative Questions (7 Out of 11)	:	$10 \times 7 = 70$
2.	Multiple Choice Questions (30)	:	$1 \times 30 = 30$
Total			100

Subject: Hindu Religion and Moral Education

Name of the book: Hindu Religion and Moral Education (Published by Board)

First CT Exam:

- Chapter 7
- Chapter 8
- Chapter 9
- Chapter 10

Pre-test & Test Exam: As Per Board Syllabus

Marks Distribution- for First CT Examination

1.	Creative Questions (1 Out of 2)	:	$10 \times 1 = 10$
2.	Multiple Choice Questions (10)	:	$1 \times 10 = 10$
Total			= 20

Marks Distribution- for Pre-Test & Test Examination

1.	Creative Questions (7 Out of 11)	:	$10 \times 7 = 70$
2.	Multiple Choice Questions (30)	:	$1 \times 30 = 30$
Total			= 100

Subject: ICT

Textbook: Published by NCTB

First CT Exam:

- Chapter 5 – Graphics (Page 79 to 113)
Chapter 6 (All)

Pretest & Test Exam: Full Textbook

Marks Distribution : Pretest and Test Exams (According to SSC Exam)

1.	MCQ(25)	$1 \times 25 = 25$
2.	Practical	$= 25$
Total		= 50

Theory Part (Full marks - 25):

- 25 MCQ will be given
- All questions will be answered
- Mark of each question: 1Mark

Practical Part (Full marks 25):

- Device/Include and use Materials / Process Maintain / Data Collection and process/ Drawing/ Observation/Identification/Practice : 15
- Assignment : 05
- VIVA : 05

Total:25

Subject: Biology

Book Name: Biology (Published by NCTB)

First CT Examination Syllabus:

Chapter Thirteen : Environment of Life

Chapter Fourteen : Biotechnology

Pre Test and Test Examination

Complete Syllabus of SSC Examination

Practical:

Selected by Subject Teacher (According to Text)

Types of Questions and Marks Distribution (Pretest, Test):

Creative:(5 out of 8)	10×5=50
Multiple Creative Questions- (25)	1×25=25
Total=75	

Practical:

1. One out of six (fixed by Lottery)	15×1=15
2. Submission of result with explanation	04
3. Viva :	04
4. Practical Khata :	02
Total=25	

Subject: Chemistry

Book Name: Chemistry (Published by NCTB)

First CT Examination Syllabus:

Chapter Ten : Mineral Resources: metal Non metal

Chapter Eleven: Mineral Resources: Fossils

Practical: Selected by the teacher

Pre-Test& Test Examination: All Chapters

Types of questions and Marks Distribution:

Creative:(5 out of 8)	10×5=50
Multiple Creative Questions- (25)	1×25=25
Total=75	

Practical:

1. Machine/Addition and Use of Equipment/Data collection and procession/ Observation/ Drawing / Identification / Practice	15
2. Result presentation with explanation:	05
3. Viva Test	05
Total = 25	

Subject: Physics

Text Book: Physics (Published by NCTB)

First CT Examination Syllabus:

Chapter Eleven : Current Electricity

Chapter Twelve : Magnetic Effects of Current

Chapter Thirteen : Modern Physics and Electronics

Chapter Fourteen : Physics to Save Life

Revision : Fourth, fifth & sixth chapter

Pre- Test & Test Examination

Whole Syllabus by Board

Marks Distribution (For Pretest, Test Examination)

Creative : (5 out of 8)	10×5=50
Multiple Creative Questions-	1×25=25
Total=75	

Practical:

1. Machine/Addition and Use of Equipment/Data collection and procession/ Observation/ Drawing / Identification / Practice	15
2. Result presentation with explanation:	05
3. Viva Voce	05
Total = 25	

Subject :Higher Mathematics

Text Book: Higher Mathematics, Class Nine-Ten (Published By NCTB, Dhaka)

First CT Examination Syllabus:

1. Theoretical

Algebra	: Chapter- 10
Geometry & Vector	: Chapter - 12
Trigonometry	: Chapter - 8
Probability	: Chapter- 14

2. Practical

- (1) Drawing the graph and determination of inverse functions. For example: $y = x^3 - 1$, $y = 4^x$ etc
- (2) Drawing the graph and determination of domain & range. For example: $f(x) = 3^x$, $f(x) = e^x$, $2 < e < 3$ etc.
- (3) Determination of the volume, area of six faces and length of diagonal of a rectangular solid by measuring its length, breadth and height.
- (4) Finding the area of the whole surface and volume of a prism.
- (5) Collecting a birthday or other occasional cone shaped cap find the area of the curved surface and the volume.
- (6) Finding the area of the surface, radius and volume of a football or a toy.
- (7) Finding the area of the whole surface and volume of a pyramid.

Pre Test and Test Examination

The whole syllabus of S.S.C. Examination 2025

Marks Distribution (For 1st term, Pre-Test & Test Examination)

Theoretical: 75 marks

1. There will be 3 questions from 'Algebra', 3 from 'Geometry and Vector' and 2 from 'Trigonometry and Probability'. Any 5 questions are to be answered taking at least 1 from each part : $10 \times 5 = 50$
2. There will be 25 MCQs and all the questions are to be answered : $1 \times 25 = 25$

Practical: 25 marks

- * Every student must execute 2 experiments selected by lottery / Teacher.
- * In each experiment theory, materials, procedure, drawing, observation, calculation of result with clarification: $10 \times 2 = 20$
- * Viva Voce: $= 05$

Total= 25