# Syllabus 2017-18

**Knowledge is Power** 



### The Millennium Stars School & College Rangpur Cantonment

## [CLASS: XI-XII] SCIENCE

The Millennium Stars School and College Rangpur Cantonment Syllabus: XI & XII (2017-18) বিষয়: বাংলা (আবশ্যিক) প্রথম ও দ্বিতীয় পত্র			
Class Test     ক্রাস টেস্ট- ১ :     প্রথম পত্র ঃ     গদ্য:     ক । বিড়াল     খ । অপরিচিতা     কবিতা:     ক । বিভীষণের প্রতি মেঘনাদ     খ । উকতান     দ্বিতীয় পত্র ঃ     ক । বানানের নিয়ম ও শব্দ শুদ্ধি     ক্রাস টেস্ট- ২ :     প্রথম পত্র ঃ     গদ্য:     ক । আমার পথ     খ । জীবন ও বৃক্ষ     ক্বিতা:     ক । তাহারেই পড়ে মনে     খ । সেই অস্ত্র	Half Yearly & Annual           অর্ধ বার্ষিক পরীক্ষা:           প্রথম পত্র ঃ           গদ্য: ক। চাষার দুক্ষু           খ। আহ্বান           কবিতা: ক। সাম্যবাদী           খ। এই পৃথিবীতে এক স্থান আছে           উপন্যাস: লালসালু (ভূমিকা           অংশ থেকে ৩৩ পৃষ্ঠা পর্যন্ত)           দ্বিতীয় পত্র ঃ           ক। বাক্যতত্ত্র ও বাক্য রূপান্তর           খ। পরিভাষিক শব্দ (A থেকে           N পর্যন্ত) ও বঙ্গানুবাদ           গ। দিনলিপি ও ভাষণ           ঘ। সারাংশ, সারমর্ম ও           ভাবসম্প্রসারণ           ** অর্ধ বার্ষিক পরীক্ষার           সিলেবাসে ১ম ক্লাস টেস্টের           সিলোবাস অর্ভভুক্ত হবে।           বার্ষিক পরীক্ষা:	Pre-Test & Test           প্রাক-নির্বাচনী পরীক্ষা:           প্রথম পত্র ঃ           গদ্য: ক। মহাজাগতিক কিউরেটর           খ। নেকলেস           কবিতা: ক। লোক লোকান্তর           খ। রক্তে আমার অনাদি অস্থি           নাটক: সিরাজ উদ্দৌলা (সম্পূর্ণ)           ছিতীয় পত্র ঃ           ক। সমাস, প্রত্যয় ও উপসর্গ           খ। ই-মেইল ও পত্র লিখন           গ। ক্ষুদে বার্তা ও আবেদনপত্র           ঘ। প্রবন্ধ রচনা           ** প্রাক নির্বাচনী পরীক্ষার           সিলেবাসে তয় ক্লাস টেস্টের           সিলেবাস অর্ন্ডভুক্ত হবে ।           নির্বাচনি পরীক্ষা:	
দ্বিতীয় পত্র ঃ ক। ব্যাকরণিক শব্দ শ্রেণি/পদ ক্লাস টেস্ট- ৩ : প্রথম পত্র ঃ গদ্য: ক। জাদুঘরে কেন যাব খ। রেইনকোট কবিতা: ক। আমি কিংবদন্তির কথা বলছি খ। নূরলদীনের কথা মনে পড়ে যায় দ্বিতীয় পত্র ঃ ক। উচ্চারণের নিয়ম/শুদ্ধ উচ্চারণ	প্রাথম পত্র ঃ গদ্য: ক। মাসি-পিসি খ। বায়ানুর দিনগুলো কবিতা: ক। আঠারো বছর বয়স খ। ফেব্রুয়ারি ১৯৬৯ উপন্যাস: লালসালু (৩৪ পৃষ্ঠা থেকে শেষ পর্যন্ত) দ্বিতীয় পত্র ঃ ক। বাক্যণ্ডদ্ধি/অনুচ্ছেদ গুদ্ধি খ। পারিভাষিক শব্দ (M-Z)/ অনুবাদ গ। অভিজ্ঞতা ও প্রতিবেদন ঘ। সংলাপ ও ক্ষুদে গল্প ** বার্ষিক পরীক্ষার সিলেবাসে ২য় ক্লাস টেস্টের সিলেবাস অর্প্রভুক্ত হবে।	নির্বাচনি পরীক্ষা ১ম ও ২য় পত্রের সম্পূর্ণ সিলেবাসের উপর বোর্ডের নমুনা প্রশ্ন অনুযায়ী অনুষ্ঠিত হবে।	

োক	ন টেস্টের মানবর্ণ	र्गेत:
ক। সূজনশীল: ২টি উদ্দীপকের মধ্যে ১টির উত্তর		>o×>= >o
খ। বহুনির্বাচনি: ৫টি প্রশ্নের প্রত্যেকটির উত্তর দিতে হবে।		\$\\ \$=\$\\ \$=\$\\
গ। নির্ধারিত ব্যাকরণ অংশ থেকে ১টি প্রশ্নের উত্ত		¢×>=¢
	53 1960 664	<u> </u>
অর্ধ বার্ষিক/ বার্ষিব	গ/প্রাক নির্বাচনি প	
প্রথম পত্র:		
र्शमग्रः		
<ul> <li>ক। সূজনশীল প্রশ্নের ২টি উদ্দীপকের ১টির উত্তর</li> </ul>	দিতে হবে ।	>o×>= >o
খ। বহুনির্বাচনি ১৩টি প্রশ্নের প্রত্যেকটির উত্তর দি		02 =02×2
		মোট = ২৩
কবিতাঃ		
ক। সৃজনশীল প্রশ্নের ২টি উদ্দীপকের ১টির উত্তর	দিতে হবে ।	$20 \times 2 = 20$
খ। বহুনির্বাচনি ১২টি প্রশ্নের প্রত্যেকটির উত্তর দি		<i>&gt;&gt;&gt;&gt; &gt;&gt;</i>
		মোট = ২২
উপন্যাস/নাটক :		
ক। সৃজনশীল প্রশ্নের ২টি উদ্দীপকের ১টির উত্তর	দিতে হবে ।	$20 \times 2 = 20$
খ। বহুনির্বাচনি ০৫টি (উপন্যাস থেকে ০৫টি) প্র	শ্নের প্রত্যেকটির	উত্তর দিতে হবে। ১×০৫ = ০৫
		মোট = ১৫
দ্বিতীয় পত্র:		
ক। নির্ধারিত ব্যাকরণ অংশ থেকে ২টি প্রশ্নের উ	ত্তর দিতে হবে	৫×২=১০
খ। নির্ধারিত নির্মিতি অংশ থেকে ৩টি প্রশ্নের উত্ত	র দিতে হবে	50×0=00
		মোট= ৪০
বি: দ্র: প্রথম ও দ্বিতীয় পত্র -		সর্বমোট (২৩+২২+১৫+৪০)=১০০
সার্বিক মানবণ্টন:		
ক। ক্লাস টেস্ট		ર૦÷ર=১૦
খ। ক্লাসে উপস্থিতি	~~~	\$0 =
<u>গ । অর্ধ বার্ষিক/ বার্ষিক/ প্রাক নির্বাচনি পরীক্ষা ১</u>	০০ নম্বরের ভিত্তি	
		মোট = ১০০
# নির্বাচনি পরীক্ষা ১ম ও ২য় পত্রের সম্পূর্ণ সি	লবাসের ডপর বে	গাঙের নমুনা প্রহা অনুযায়। অনু।গত হবে ।
পঠ্যিপুস্তক তালিকা: বাংলা প্রথম পত্র		
গাঠ্য ণুঙক আলকাঃ বাংলা প্রথম গল্প ১। সাহিত্য পাঠ (গদ্য ও কবিতা)	নমত কমাপ্দিদ	পক ডঃ মাহবুবুল আলম
<u>২। সহপাঠ (উপন্যাস ও নাটক)</u>		পিক ডঃ মাহবুবুল আলম পিক ডঃ মাহবুবুল আলম
সহায়ক গ্রন্থ তালিকা: বাংলা দ্বিতীয় পত্র	1 1111 111	
<u>১। উচ্চতর বাংলা ভাষারীতি</u>		প্রফেসর ড. আলাউদ্দিন আল আজাদ
<u>২। একাডেমিক উচ্চ মাধ্যমিক বাংলা ব্যাকর</u>	ণ ও নির্মিতি	মীর মোশারফ হোসেন (মিলু)
		ড. হায়াৎ মামুদ
		ড. গিয়াস শামীম
৫। টার্গেট বাংলা ব্যাকরণ ও নির্মিতি		
	م م	17
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### Subject: English 1st and 2nd Paper

-	•	•
Class Test	Half Yearly & Annual	Pre-Test & Test
1st Class Test Unit-1: People or Institutions Making History Unit-2: Traffic Education Grammar : Synonyms & Antonyms: Transformation (Affirmative, Negative, Interrogative, Exclamatory)	Half Yearly Exam Unit-1: People or Institutions Making History Unit-2: Traffic Education Unit-3: Food Adulteration Unit-4: Human Relationships Unit-5: Adolescence Unit-6: Path To Higher Education Grammar: Synonyms & Antonyms; Transformation (All items) Writing Part: Paragraph	Pre- Test Exam Unit-12: Peace and Conflict Unit-13: Greatest Scientific Achievements Unit-14: Art and Music Unit-15: Tours and travels Grammar: Right Form of Verbs, Synonyms & Antonyms; Article, Preposition, Unclear Pronoun, Punctuation Writing Part: Paragraph, Composition, E-mail, Report
2nd Class Test Unit-7: Human Rights Unit-8: Environment and Nature Grammar: Right Form of Verbs; Synonyms & Antonyms; Preposition	Annual Exam Unit-7: Human Rights Unit-8: Environment and Nature Unit-9: Myths and Literature Unit-10: Dreams Unit-11: Diaspora Grammar: Right Form of Verbs; Article, Preposition Writing Part: Paragraph	Test Examination         1. Revision of English 1st         Paper (As per syllabus of NCTB)         2. Revision of English 2nd         Paper (As per syllabus of NCTB)         NCTB)
<u><b>3</b>rd Class Test</u> Unit-13: Greatest Scientific Achievements Unit-14: Art and Music Unit-15: Tours and travels Grammar: Modifiers, Linkers, Narration, Guided Writing: E-mail, Report		



Marks Distribution for class test	15 mortes	
1. Comprehension based question 2. Guided Writing	15 marks 05 marks	
	Total=20 marks	
Marks Distribution of Half Yearly Exam	TOTAL-20 Marks	
1 <sup>st</sup> Class Test	20 Marks	
Class Attendance	5 Marks	
Written Exam (100 Marks) converted into	75 Marks	
	Total= 100 Marks	
Marks Distribution of written Test		
Comprehension based Question	25 Marks	
Vocabulary	15 Marks	
Rearrangement	10 Marks	
Grammar:	10 Marks	
Guided Writing (items to be included from 1st & 2nd Paper)	40 Marks	
······································	Total 100 Marks	
Marks Distribution of Annual Exam		
2 <sup>nd</sup> Class Test	20 Marks	
Class Attendance	5 Marks	
Written Exam (100 Marks) converted into	75 Marks	
	Total= 100 Marks	
Marks Distribution of written Test		
Comprehension based Question	25 Marks	
Vocabulary	15 Marks	
Rearrangement	10 Marks	
Grammar	10 Marks	
Guided Writing	40 Marks	
	Total 100 Marks	
Marks Distribution of Pre-Test Exam		
3 <sup>rd</sup> Class Test	20 Marks	
Class Attendance	5 Marks	
Written Exam (100 Marks) converted into	75 Marks	
	Total= 100 Marks	
Marks Distribution of Pre- Test Exam	00 M - 1	
Part A: Grammar	60 Marks	
Part B: Guided Writing	40 Marks	
Marks Distribution of Test Exam	Total =100 Marks	
1. English 1 <sup>st</sup> Paper	100 Marks	
2. English 2 <sup>nd</sup> Paper	100 Marks	
2. ∟וויוווו 2.™ רמושו 	Total =200 Marks	
Recommended Book		
1. Text Book English for Today (For English 1 <sup>st</sup> paper) Prescribed by NCTB     2. Text Book English Grammar & Composition (For English 2 <sup>nd</sup> paper) by NCTB		
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Class Test	Half Yearly & Annual	Pre-Test & Test
<u>Class Test- 1</u> Chapter-2: Communication System	Half Yearly Exam Chapter-1: ICT world and Bangladesh perspective Chapter-2: Communication system Chapter-3: Number system	Pre-Test Examination Chapter-5: Program design and C-programming Chapter-6: Fundamental concept of database
Class Test- 2	Annual Exam	Test Examination
Chapter-3: Digital device	Chapter-1: ICT world and Bangladesh perspective	Full book
Class Test- 3	Chapter-2: Communication	
Chapter-5: Program	System	
design and C-	Chapter-3: Digital device	
programming	Chapter-4: Webpage design	

Note: Syllabus can be changed by subject teacher under any circumstances.

#### Marks Distribution of All Class Test

Creative	10×1=10		
MCQ	1×10=10		
	Total=20		
Mark Distribution of A	II Term Examination		
Creative question	10×5=50		
M.C.Q	1×25=25		
Practical	=20		
Attendance	=05		
	Total=100		
Book Reference:			
1. Information and Communication technology	- Md. Mahbubur Rahman		
2. Information and Communication technology	•		
3. Information and Communication technology	- Md. Mahfuzur Rahman & Md. Rasel kabir		
4. Information and Communication technology	- Forhad Monjur and others		
5. Information and Communication technology	- Anisul Islam and Others		
6. Information and Communication technology	- Emdadul Karim and Others		
7. Information and Communication technology	- Norendro Nath and Others		
<b>D</b> softwark			
Practical	harden Mit Mehlenburg Debaser		
1. Practical Information and Communication technology - Md. Mahbubur Rahman			
2. Practical Information and Communication tec	chnology - Md. Nimul Haque Niam		
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Subject: Physics 1 <sup>st</sup> and 2 <sup>nd</sup> Paper		
Class Test	Half Yearly & Annual	Pre-Test & Test
Class Test-1 First paper : 2 <sup>nd</sup> Chapter – Vector 3 <sup>rd</sup> Chapter – Dynamics 10 <sup>th</sup> Chapter – Ideal Gas and Kinetic Theory of Gases Second Paper: 6 <sup>th</sup> Chapter-Geometrical Optics	Half Yearly Examination First Paper : 4th Chapter – Newtonian Mechanics and repetition of Chapters of 1st Class test	Pre-test         Second Paper :         4th Chapter-Magnetic         Effects of Current and         Magnetism         8th Chapter-Introduction to         Modern Physics         Syllabus of 3rd class test         will be included.
Class Test-2         First Paper :       5 <sup>th</sup> Chapter – Work ,         Energy & Power       6 <sup>th</sup> Chapter - Gravitation and Gravity         8 <sup>th</sup> Chapter - Gravitation       and Gravity         8 <sup>th</sup> Chapter - Periodic motion       Second Paper :         1 <sup>st</sup> Chapter –       Thermodynamics         2 <sup>nd</sup> Chapter - Static       Electricity         Class Test-3         First Paper :       9 <sup>th</sup> Chapter - Wave         Second Paper :       3 <sup>rd</sup> Chapter - Current         electricity       7 <sup>th</sup> Chapter - Physical         Optics.       0	Annual Examination First Paper : 7th Chapter - Structural Property of Matter Second Paper : 3rd Chapter – Current electricity Syllabus of 2nd Class test will be included.	Test Examination ** 1st Paper and 2nd Paper whole syllabus will be included.
Class test- 1 (20 marks) Class attendance	ribution for first Terminal Ex : Creative - MCQ-	<u>camination</u> =20 =05 =50 =25 Total=100
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Marks distribution for theoretical exam:	
A) Creative questions – 50 marks.	
Out of 8 questions any five have to write.	
Each of the questions carries 10 marks	10×5=50
B) MCQ - 25 marks	
25 questions are to give.	04 05-05
Each of the questions has equal value and carries 01	01×25=25 etical marks= 75
Marks distribution for annual examination	elical marks- 15
Class test- 2 (20 marks) and Practical (20)	40÷2=20
Class attendance	=05
Annual exam (theoretical) : Creative -	=50
MCQ-	=25
	Total = 100
<u>Marks distribution for Practical exam:</u>	=10
1. Experiment (1) 2. Identification	=10 =02
3. Note book	=02
4. Viva	=05
	Total=20
Marks distribution for theoretical exam:	
A) Creative questions – 50 marks.	
Out of 8 questions any five have to write.	40 5 50
Each of the questions carries 10 marks.	10×5=50
B) MCQ - 25 marks 25 questions are to give.	
Each of the questions has equal value and carries 01 marks	1×25=25
	Total = 75
Marks distribution for pre-test examination	
Class test- 3	20
Class attendance	05
Annual exam (theoretical) : Creative-	50
MCQ	<u> </u>
Marks distribution for theoretical exam:	10101 - 100
A) Creative questions – 50 marks	
Out of 8 questions any five have to write.	
Each of the questions carries 10 marks.	10x5=50
B) MCQ - 25 marks	
25 questions are to give.	4 05 05
Each of the questions has equal value and carries 01 marks	<u>1×25=25</u>
	Total = 75
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Marks distribution for test examination	
Practical	25
Annual exam (theoretical) : Creative -	50
MCQ-	25
MOQ	
Marks distribution for theoretical exam:	10101 - 100
A) Creative questions – 50 marks.	
Out of 8 questions any five have to write.	
	40 5 50
Each of the questions carries 10 marks.	10×5=50
B) MCQ - 25 marks	
25 questions are to give.	
Each of the questions has equal value and carries 01 marks	01×25=25
	Total=75
**Marks distribution of practical exam of 2 <sup>nd</sup> Paper	
Dissection (Dissection and Presentation-6, figure-2)	=08
Identification (3×3)	=09
Viva Voice	=05
Note Book	=03
	Total = 25
Second paper: Same as first paper.	
Book list:	
Physics 1 <sup>st</sup> and 2 <sup>nd</sup> Paper	
1. Dr. Shahjahan Tapon and Muhammad Aziz Hasan	
2. Professor Abu Ishaq	
3. Professor A.T.M Samsur Rahman Shelu and Zakaria Towhid	
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Subject: Chemistry 1 <sup>st</sup> and 2 <sup>nd</sup> Paper		
Class Test	Half Yearly & Annual	Pre-Test & Test
Class Test-1First Paper:1stChapter - (Full)2ndChapter - (from beginning toElectromagnetic radiation,Hydrogen spectra), Form Useof UV & IR rays to end.3rd Chapter- (from beginning toPeriodic properties &Properties of oxides), FormCovalent bond to end.Second Paper:3rdChapter- (from beginning toend point of acid basereaction)	Half Yearly Exam First Paper : 1st chapter: Use of Laboratory with safety measures 2 <sup>nd</sup> Chapter: Qualitative Chemistry 3 <sup>rd</sup> Chapter:Periodic Properties of Elements and Chemical Bonding Second Paper : 3 <sup>rd</sup> Chapter (half)	Pre-testFirst Paper :5th Chapter - Chemistry inwork and lifeSecond Paper :1st Chapter - Environmentalchemistry2nd Chapter - OrganicChemistry3rd Chapter - Quantitativechemistry4th Chapter- Chemicalchanges
Class Test-2 First Paper : 4 <sup>th</sup> Chapter -(From beginning to Relation between Kp & Kc), From lonic product of water to end. Second Paper : 1 <sup>st</sup> Chapter - Environmental chemistry (Full)	Annual Exam First Paper : 1 <sup>st</sup> chapter 2 <sup>nd</sup> Chapter 3 <sup>rd</sup> Chapter <b>Second Paper :</b> 1 <sup>st</sup> Chapter 2 <sup>nd</sup> Chapter 3 <sup>rd</sup> Chapter 3 <sup>rd</sup> Chapter	Test ExaminationSecond paper :4thChapter - Electrochemistry5th Chapter - Economicchemistry1st Chapter- Environmentchemistry2nd Chapter- OrganicChemistry3rd Chapter- Quantitative
Class Test- 3First Paper :5thChapter - Chemistry in workand lifeSecond paper :Chapter - OrganicChemistry(from beginning toidentification of Functionalgroup)3rd Chapter - Quantitativechemistry (From redox to end)		chemistry
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Marka distribution for first Terminal Examination	
<u>Marks distribution for first Terminal Examination</u> Class test- 1 (20 marks)	=20
Class attendance	=05
Half Yearly exam (theoretical) : Creative -	=50
MCQ-	=25
	Total=100
Marks distribution for theoretical exam:	
A) Creative questions – 50 marks.	
Out of 8 questions any five have to write.	
Each of the questions carries 10 marks	10×5=50
B) MCQ - 25 marks	
25 questions are to give.	
Each of the questions has equal value and carries 01	01×25=25
	cal marks= 75
Marks distribution for annual examination	10-0-00
Class test- 2 (20 marks) and Practical (20) Class attendance	40÷2=20 =05
Annual exam (theoretical) : Creative -	=03 =50
MCQ-	=30
	Total = 100
Marks distribution for Practical exam:	
1. Experiment (1)	=10
2. Identification	=02
3. Note book	=03
<u>4. Viva</u>	=05
	Total=20
Marks distribution for theoretical exam:	
A) Creative questions – 50 marks.	
Out of 8 questions any five have to write.	
Each of the questions carries 10 marks.	10×5=50
B) MCQ - 25 marks 25 questions are to give.	
Each of the questions has equal value and carries 01 marks	1×25=25
	Total = 75
Marks distribution for pre-test examination	
Class test- 3	20
Class attendance	05
Annual exam (theoretical) : Creative-	50
MCQ-	25
	Total =100
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Marka diatribution for the cretical evens	
Marks distribution for theoretical exam: A) Creative questions – 50 marks	
Out of 8 questions any five have to write.	
Each of the questions carries 10 marks.	10x5=50
B) MCQ - 25 marks	
25 questions are to give.	
Each of the questions has equal value and carries 01 marks	1×25=25
	Total = 75
Marks distribution for test examination	
Practical	25
Annual exam (theoretical) : Creative -	50
MCQ	<u>25</u>
Marke distribution for theoretical evenu	Total =100
Marks distribution for theoretical exam: A) Creative questions – 50 marks.	
Out of 8 questions any five have to write.	
Each of the questions carries 10 marks.	10×5=50
B) MCQ - 25 marks	10~0-00
25 questions are to give.	
Each of the questions has equal value and carries 01 marks	01×25=25
	Total=75
**Marks distribution of practical exam of 2 <sup>nd</sup> Paper	
Dissection (Dissection and Presentation-6, figure-2)	=08
Identification (3×3)	=09
Viva Voice	=05
Note Book	=03
	Total = 25
Second paper: Same as first paper.	
List of Dooks	
List of Books 1. Chemistry- 1 <sup>st</sup> & 2 <sup>nd</sup> paper	
1. Swapan Kumar Mistry	
2. Sanjit Kumar Guha	
3. Mahbub Linkon	
4. Md. Jainul Abedin	
5. Biplob Kumar Dev	
6. Haradhan Nath	
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Subject: Higher Mathematics 1 <sup>st</sup> and 2 <sup>nd</sup> Paper		
Class Test	Half Yearly & Annual	Pre-Test & Test
Class Test-1	Half Yearly Examination	Pre-test
1 <sup>st</sup> paper :	Syllabus of class test -1	Full syllabus of class
1 <sup>st</sup> Chapter - Matrix and	-	test-3
Determinants [ Exercise:-	1 <sup>st</sup> Paper :	
1.1 – 1.2]	4th Chapter - Circle	2 <sup>nd</sup> paper :
3rd Chapter - Straight lines	[Exercise- 4.1 -4.2]	3 <sup>rd</sup> Chapter - Complex
[Exercise- 3.1 - 3.5]	2 <sup>nd</sup> Paper :	Numbers [Exercise: - 3]
2 <sup>nd</sup> Paper:	7th Chapter – Inverse	10th Chapter - Measures
Real numbers and	Trigonometric Function &	of Dispersions [Exercise-
Inequalities	Trigonometric Equations	10.1 - 10.2]
[Exercise- 1.1–1.2]	[Ex-7.1 – 7.2]	8th Chapter: Statics [
Linear programming		Exercise: 8.1-8.4]
[Exercise: 2] Class Test-2	Annual Examination	Test Examination
1 <sup>st</sup> paper :	Syllabus of class test -2.	According to board
1 <sup>st</sup> Chapter - Straight	Oyliabus of class lest -2.	syllabus 1 <sup>st</sup> Paper and 2 <sup>nd</sup>
lines [Exercise:-3.5 – 3.7]	1 <sup>st</sup> paper :	Paper
7 <sup>th</sup> Chapter - Trigonometric	2 <sup>nd</sup> Chapter - Vectors	
Ratios of Associated	[Exercise: - 2]	
Angles [Exercise- 7.1 - 7.7]	5th Chapter - Permutations	
2 <sup>nd</sup> Paper:	and Combinations	
Trigonometry	[Exercise- 5.1 - 5.2]	
Ex: 7.1, 7.2	9 <sup>th</sup> Chapter -	
<u>Class Test-3</u>	Differentiation [Exercise:-	
1 <sup>st</sup> paper :	9.7 – 9.9]	
6 <sup>th</sup> Chapter : Conics [		
Exercise:-6.1 – 6.3]	2 <sup>nd</sup> Paper :	
8th Chapter : Function and	5 <sup>th</sup> Chapter - Binomial	
Graph of Functions	Expression [Exercise- 5.1	
[Exercise- 8] 9 <sup>th</sup> Chapter -	- 5.2]	
Differentiation [Exercise:-		
9.1 – 9.6]		
10 <sup>th</sup> Chapter - Integration		
[Exercise- 10.1 – 10.7]		
•	-	·
Marks Distribution of Term Examination		
Class Test		20
Class Attendance		05
	reative-	50
MCQ Total = 100		
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#### Marks Distribution of Theoretical Examination:

(a) Creative Question:	
Total 8 questions (4+4) in 2 groups will be given out of them	
5 questions are to be answered. From each group at least two que	estions are to be
answered. Each question carries 10 marks	50
(b) MCQ	
Total 25 questions will be given. All questions are to be answered	
Each Question carries 01 marks	25
	Total= 75
Marks distribution of practical examination	
Experiment Theory	03
Use of instruments and Data Collection	05
Calculation and Analysis	04
Presentation of results with explaimation	05
Viva voce	05
Practical Note book	03
	Total= 25

#### Name of the book :

#### Higher Mathematics 1<sup>st</sup> Paper and 2<sup>nd</sup> Paper

1. Md. Rafiqul islam & Md. Habibur Rahman– Ruponti Prokashoni, Dhaka.

2. Md. Nazrul islam and Md. Ketab Uddin

3. Md. Surujuddin Ahmed and Md. Abdul Jabbar

4. Akkhar Patra Publication Writer: Asim kumar Saha and others.

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Class Test	Half Yearly & Annual	Pre-Test & Test
Class test-1 First Paper: 1stChapter - Cell and it's structure Second paper: 1st Chapter - Animal diversity and classification	Half Yearly exam First Paper: 2nd Chapter - Cell division 3rd Chapter - Cell chemistry Second Paper: 2nd Chapter - Introduction to animal 3rd Chapter - Human physiology: digestion and absorption	Pre- test exam First Paper : 4 <sup>th</sup> Chapter – Micro organisms 8 <sup>th</sup> Chapter - Tissue and tissue system 9 <sup>th</sup> Chapter - Plants physiology Second Paper: 4 <sup>th</sup> Chapter - Human physiology: Blood and blood circulation 8 <sup>th</sup> Chapter - Human physiology: Coordination and control 11 <sup>th</sup> Chapter - Genetics and Evolution
Class test- 2 First Paper: 5 <sup>th</sup> Chapter - Algae and Fungi Second Paper: 5 <sup>th</sup> Chapter - Human physiology: Breathing and Respiration Class test- 3 First Paper : 7 <sup>th</sup> Chapter - Gymnosperm and angiosperm plants Second Paper : 7 <sup>th</sup> Chapter -Human physiology: Locomotion and body movement	Annual Exam First Paper : 6th Chapter - Algae and Fungi Second Paper : 4th Chapter - Human physiology: Waste and excretion	and Evolution Test exam First Paper : 10 <sup>th</sup> Chapter - Plant reproduction 11 <sup>th</sup> Chapter - Biotechnology 12 <sup>th</sup> Chapter - Ecosystem and conservation Second Paper : 9 <sup>th</sup> Chapter - Continuation of human life 10 <sup>th</sup> Chapter -Immunity system of human body 12 <sup>th</sup> Chapter -Animal behavior *** There will be separate question paper on entire syllabus of first paper and second paper.

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Marks distribution for first Terminal Examination         Class test- 1 (20 marks)       =20         Class attendance       =05		
Half Yearly exam (theoretical) : Creative - =50		
MCQ- =25		
Total=100		
Marks distribution for theoretical exam:		
A) Creative questions – 50 marks.		
Out of 8 questions any five have to write.		
Each of the questions carries 10 marks 10×5=50		
B) MCQ - 25 marks		
25 questions are to give.		
Each of the questions has equal value and carries 01 01×25=25 Total theoretical marks= 75		
Marks distribution for annual examination		
Class test- 2 (20 marks) and Practical (20) 40÷2=20		
Class attendance =05		
Annual exam (theoretical) : Creative - =50		
MCQ- =25		
Total = 100		
Marks distribution for Practical exam:		
1. Experiment (1)=10		
2. Identification =02		
3. Note book =03		
4. Viva =05		
Total=20		
Marks distribution for theoretical exam: A) Creative questions – 50 marks.		
Out of 8 questions any five have to write.		
Each of the questions carries 10 marks. $10 \times 5=50$		
B) MCQ - 25 marks		
25 questions are to give.		
Each of the questions has equal value and carries 01 marks 1×25=25		
Total = 75		
Practical exam syllabus of 1 <sup>st</sup> Paper		
1. Observation of plant diversity.		
2. Different stage of mitosis cell division.		
3. Observation of Bacteria.		
4. Identification of Malvaceae and poaceae family.		
5. Observation of the transverse section of roots and shoots of monocotyledon plants.		
6. To examine the importance of CO <sub>2</sub> in photo synthesis.		
7. Examination of an aerobic respiration		
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Marks distribution for pre-test examination	
Class test- 3	20
Class attendance	05
Annual exam (theoretical) : Creative- MCQ-	50 25
MCQ-	25 Total =100
Marks distribution for theoretical exam:	10tal – 100
A) Creative questions – 50 marks	
Out of 8 questions any five have to write.	
Each of the questions carries 10 marks.	10x5=50
B) MCQ - 25 marks	1070-20
25 questions are to give.	
Each of the questions has equal value and carries 01 marks	1×25=25
	Total = 75
Marks distribution for test examination	
Practical	25
Annual exam (theoretical) : Creative -	50
MCQ-	25
	Total =100
Marks distribution for theoretical exam:	
A) Creative questions – 50 marks.	
Out of 8 questions any five have to write.	
Each of the questions carries 10 marks.	10×5=50
B) MCQ - 25 marks	
25 questions are to give.	
Each of the questions has equal value and carries 01 marks	01×25=25
	Total=75
**Marks distribution of practical exam of 2 <sup>nd</sup> Paper	
Dissection (Dissection and Presentation-6, figure-2)	=08
Identification (3×3)	=09
Viva Voice	=05
Note Book	=03
	Total = 25
Second paper: Same as first paper.	
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#### Practical syllabus of 2<sup>nd</sup> Paper

- 1. Study of museum specimen
- 2. Study of permanent slide
- 3. Study of mouth parts of cockroach
- 4. Study of efferent branchial system (Rohu fish)
- 5. Study of Afferent branchial system (Rohu fish)
- 6. Study of operculum of fish
- 7. Study of air bladder of fish
- 8. Study of skeletal system of human.

#### List of reference biology books Name of the book Name of the author

Biology 1 <sup>st</sup> paper Class 11-12	Biology 2 <sup>nd</sup> paper Class 11-12
1. Prof. Dr. Md. Abul Hasan	1. Gazi Azmal and Asmat.
2. Gazi Azmal <i>et al.</i>	2. Md. Abdul Kaiyum and Prof. Meghnad Saha
3. Hafizur Rahman Mandal et al	3. Dr. Md. Abdul Alim
4. Prof.Md. Nazim Uddin et al	4. Prof. Md. Nazim Uddin

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## Subject: Engineering Drawing and Workshop Practice 1<sup>st</sup> and 2<sup>nd</sup> Paper

Class Test	Half Yearly & Annual	Pre-Test & Test
<u>Class Test-1</u>	Half Yearly Examination	Pre-Test Examination
<ol> <li>1<sup>st</sup> paper</li> <li>Drawing instruments and their uses.</li> <li>Standard of lines and methods of dimensioning.</li> <li>Triangle, Quadrilateral, Polygon Geometrical.</li> <li>Figures of equal areas.</li> <li>2<sup>nd</sup> paper</li> <li>Meaning of surveying classification of surveying</li> <li>Survey instruments:         <ul> <li>Chain surveying,</li> <li>Compass survey.</li> <li>Plane table survey.</li> <li>Basic principle of chain surveying:                 <ul> <li>Instrument used in chain surveying:</li> <li>Instrument used in chain surveying:</li> <li>Struey instruments:</li> <li>Compass survey.</li> <li>Plane table survey.</li> <li>Basic principle of chain surveying:</li></ul></li></ul></li></ol>	<ul> <li>1<sup>st</sup> paper</li> <li>1. Tangent to circles &amp; Ellipse.</li> <li>2. Enlarging or Reducing plane figures.</li> <li>3. Lettering &amp; Numbering.</li> <li>4. Plain scale and Diagonal scale.</li> <li>5. Conventional signs (Symbols).</li> <li>6. Revision of the 1st class test syllabus.</li> <li>2<sup>nd</sup> paper</li> <li>1. List of error in chaining: Cumulative errors, (+) positive cumulative, (-) negative cumulative errors, compensating errors, Mistakes.</li> <li>2. Draw plan and calculate the area of plot</li> <li>3. Revision of 1st +2<sup>nd</sup> monthly syllabus</li> <li>4. Folding &amp; Unfolding of chain.</li> <li>5. Procedure of chain surveying.</li> <li>6. Booking procedure in field book, procedure of booking a field book.</li> </ul>	<ul> <li>1<sup>st</sup> Paper <ol> <li>Building door &amp;</li> <li>Windows.</li> <li>Draw building plan, section &amp; elevation for single &amp; double room.</li> </ol> </li> <li>2<sup>nd</sup> Paper <ol> <li>Fore bearing, Back bearing, Resection by back sighting, Radiation methods</li> <li>Revision of 1<sup>st</sup> 2<sup>nd</sup> &amp; 3<sup>rd</sup> class test syllabus.</li> </ol> </li> </ul>

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Class Test	Half Yearly & Annual	Pre-Test & Test
Class Test-2	Annual Examination	Test Examination
<ol> <li>1st paper</li> <li>1. Isometric view.</li> <li>2. First and third angle projection.</li> <li>3. Projection of points, lines &amp; planes.</li> <li>4. Projection of Solids; Cube, Prism, Pyramid, Cylinder, Conc.</li> <li>5. Development of prism, pyramid, cylinder &amp; conc.</li> </ol>	<ol> <li>1st paper</li> <li>Projection of</li> <li>Engineering drawing</li> <li>Instruments.</li> <li>First angle projection,</li> <li>Oblique projection,</li> <li>Isometric view.</li> <li>Revision of 2<sup>nd</sup> class test syllabus.</li> </ol>	1 <sup>st</sup> Paper & 2 <sup>nd</sup> Paper whole syllabus.
<ul> <li>2<sup>nd</sup> paper</li> <li>Compass survey:</li> <li>a) Classification of compass, Introduction of Instrument.</li> <li>b) Difference of Prismatic compass, Surveyors compass and use of Trough compass.</li> </ul>	<ul> <li>2<sup>nd</sup> paper</li> <li>1. Magnetic needle, Dip-of- the needle, Magnetic meridian.</li> <li>2. Calculate the area with Bearing and traverse.</li> <li>3. Revision of 2<sup>nd</sup> class test syllabus.</li> </ul>	
<u>Class Test- 3</u> 1 <sup>st</sup> paper 1. Screw threads. 2. Machine Screws. 3. Square & Hexagonal Nut 4. Rivets		
<ul> <li>2<sup>nd</sup> paper</li> <li>1. Plane table survey. Introduction and used of plane table surveying instruments.</li> <li>2. Methods of plane table surveying and advantages &amp; disadvantages of plane table surveying</li> </ul>		

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Marks Distribution of Term exam	
Class Test	20
Work book	=15
Class attendance Written test (Theoretical)	=05 =60
	Total = 100
Marks Distribution of Written Test	rotar roo
1st paper out of 8 questions -4 are to be answer	10 × 4 = 40
2 <sup>nd</sup> paper out of 6 questions -4 are to be answer	5 × 4 = 20
	Total=60
Name of Books: <u>First Paper</u> 1. Engineering drawing and workshop practice (NCTB) ১. আ. ম. শফিউদ্দিন আহম্মেদ ২. মোঃ ইব্রাহিম হোসেন 2. Prathomik Engineering drawing (Reference Book)- শ্রী হেমন্ত কুমার ভট্টাচার্য্য	
<u>2nd Paper</u> 1. Engineering drawing and workshop practice (NCTB). ১. আ. ম. শফিউদ্দিন আহম্মেদ ২. মোঃ ইব্রাহিম হোসেন 2. A text book of Surveying (Reference Book)- M. Shahjahan & M. A. Aziz 3. Surveying Vol-1 (Reference Book)- Dr. B.C. Punmia	
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