



# NOPANY HIGH

(I.C.S.E. & I.S.C Affiliated)  
2-C, Nando Mullick Lane, Kolkata - 700006

## Syllabus

(As per the reduced syllabus for ISC- Class-XII-2022)

Academic Session: 2021 - 2022

Class: XII(SCIENCE) (Unit -II)

<b>English Language</b>	
<b>SECTION - A</b>	
Only Multiple choice questions from this section will come for Unit II Examination. (40 marks)	
<i>Text Book : Total English</i> <i>Publisher : Morning Star Publication</i>	
Comprehension and grammar- Specimen Papers- 5,6,7,8,9,10.	
<b>SECTION - B</b>	
Subjective questions from this section will come for Unit II Examination. (40 marks)	
<b>Essay Writing</b>	
<b>Argumentative Essay-</b> Considering the level of air pollution and fire accidents due to the bursting of crackers after Diwali, crackers should be banned – Describe your views for or against the proposition. <b>Reflective Essay:</b> Corruption is a contagious disease which affects all those who come in its contact. Express your views on the given statement.	
<b>Proposal Writing</b>	
As the head of the students wing of the RWA of your colony you have been given the responsibility of organizing the children of your colony and undertaking the cleanliness drive in your colony. Write a proposal in not more than 150 words stating the steps you would take to effectively organize this cleanliness drive.	
<b>Directed Writing</b>	
<b>1. Report Writing –</b> Write a report based on a travel brochure ,to plan a trip to The Andaman and Nicobar Islands ,Base your report on the points given below. A brief description on the Islands –geographical location, -climatic condition-condition of the sea –major tourist attractions – best time to visit accommodation – connectivity ‘ ( you may also include other relevant details )	
<b>2. Statement of Purpose -</b> You want to apply for admission into a prestigious college for doing an undergraduate course in Computer Application. Write a Statement of Purpose for the same.	
<b>ISC PROJECT-Writing Skills</b>	<b>20 Marks</b>

A piece of written work of about 500 words must be produced on **any one** of the following topics:

1. Description of how to conduct a scientific experiment.
2. Who is your favourite author and why you like them?
3. The day I learnt an important lesson in my life.

Assignment will be created for submission on Google classroom.

### **English Literature**

#### **SECTION - A**

**Only Multiple choice questions from this section will come for Unit II Examination.  
(40 marks)**

**Text Book I : *The Tempest by William Shakespeare*  
Publisher : Morning Star**

Act III.

**Text Book II : *Echoes: A Collection of ISC Short Stories*  
Publisher : Evergreen Publication Ltd**

1. To build a fire by Jack London.
2. The story of an hour by Kate Chopin.

**Text Book III : *Reverie: A Collection of ISC Poems*  
Publisher : Evergreen Publication Ltd**

1. Birches by Robert Frost.
2. Crossing The Bar by Alfred Lord Tennyson.
3. The Darkling Thrush by Thomas Hardy.

#### **SECTION - B**

**Subjective questions from this section will come for Unit II Examination.  
(40 marks)**

**Text Book I : *The Tempest by William Shakespeare*  
Publisher : Morning Star**

Act IV and Act V

**Text Book II : *Echoes: A Collection of ISC Short Stories*  
Publisher : Evergreen Publication Ltd**

3. The Singing Lesson by Katherine Mansfield.
4. The Sound Machine by Roald Dahl.

**Text Book III : *Reverie: A Collection of ISC Poems*  
Publisher : Evergreen Publication Ltd**

4. Dover Beach by Matthew Arnold.

#### **ISC PROJECT**

**20 Marks**

Make an in-depth character analysis of Prospero or Caliban (ANY ONE) from William Shakespeare's "The Tempest." Analyse each and every aspect of his/her character and write down relevant details. (1000 to 1500 words).

Assignment will be created for submission on Google classroom.

<b>Physics</b>		
<b>Mark Distributions (40+30+30=100 marks)</b>		
<b>SECTIONS</b>	<b>SECTION A (40 marks)</b>	<b>SECTION B (30 marks)</b>
<b>SYLLABUS</b>	<b>(Entire Syllabus of SEMESTER I)</b>  UNIT 1: Electrostatics UNIT 2: Current Electricity UNIT 3: Magnetic Effects Of Current And Magnetism UNIT 4: Electromagnetic Induction And Alternating Current UNIT 5: Electromagnetic Waves	<b>(One unit from SEMESTER II Syllabus)</b>  <b>UNIT 6: OPTICS</b> CHAPTER- 16,17
<b>Mode of Questions</b>	<b>MCQ based</b>	<b>Descriptive type</b>
<b>Marks</b>	<b>40</b>	<b>30</b>
<b>No. of questions along with marks</b>	<b>Part- I</b>  No. of Questions: 30 Marks: 1 Part I: Total $30 \times 1 = 30$  <b>Part- II</b>  No. Question: 5 Marks: 2 Part II: Total $5 \times 2 = 10$  Total Marks: $30 + 10 = 40$	<b>Part- I (Compulsory)</b>  No. of Questions: 5 Marks: 2 Part I: Total $5 \times 2 = 10$  <b>Part- II (Optional: 2 out of 3)</b>  No. Question: 2 out of 3 Marks: 10 (3+3+4) Part II: Total $10+10= 20$  Total Marks:  $10(\text{Part I}) + 20(\text{Part II}) = 30$
<b>Project Work : 30 Marks</b>		

<b>Biology</b>		
<b>Mark Distributions (70 marks)</b>		
<b>SECTIONS</b>	<b>SECTION-A (40 marks)</b>	<b>SECTION-B (30 marks)</b>
<b>Syllabus</b>	<p><b>Entire Syllabus From Semester -I</b></p> <p><b>Unit1: Unit -1</b> <b>Reproduction</b> Ch-1 ,2,3 &amp; 4</p> <p><b>Unit -2 :Genetics And Evolution</b> Ch-5,6,7</p> <p><b>Unit -3 .Biology And Human Welfare</b> Ch-10</p>	<p><b>Chapters From Semester-II</b></p> <p><b>Unit –Iii –Biology And Human Welfare</b> Ch-8</p> <p><b>Unit -4 Biolotechnology And Its Application</b> Ch-11,12</p> <p><b>Unit -5 Ecology And Environment</b> Ch-13</p>
<b>Mode Of Questions</b>	<b>Mcq Based</b>	<b>Descriptive Type</b>
<b>Marks</b>	<b>40</b>	<b>30</b>
Number Of Questions Along With Marks :	40 Number Of Questions Each Question Is Of 1 Mark	<p><b>Part-I</b> 5 Questions (4 Out Of 5) <b>(2X4=08 MARKS )</b></p> <p><b>Part-II</b> 5 Questions (4 Out Of 5) <b>(3x4=12 )</b></p> <p><b>Part-III</b> 3 questions (2 Out Of 3) <b>5X2=10 )</b></p> <p><b>Total Marks =30</b> <b>Part-I =8</b> <b>Part-II =12</b> <b>Part-III =10</b></p>

<b>Chemistry</b>		
<b>Mark Distributions (70 theory+30 internal assessment) = 100</b>		
<b>Sections</b>	<b>Section A (40 Marks)</b>	<b>Section B (30 Marks)</b>
<b>Syllabus</b>	<b>(Entire syllabus of Semester I)</b> <ul style="list-style-type: none"> <li>• <b>Solid State</b></li> <li>• <b>Solutions</b></li> <li>• <b>Electrochemistry</b></li> <li>• <b>General principals and processes of isolation of elements</b></li> <li>• <b>p-block elements</b></li> <li>• <b>Haloalkane and Haloarenes</b></li> <li>• <b>Alcohols ,Phenols and ethers</b></li> </ul>	<b>(From Semester II syllabus)</b> <ul style="list-style-type: none"> <li>• <b>Surface Chemistry</b></li> <li>• <b>Coordination Compounds</b></li> <li>• <b>Aldehydes, Ketones and Carboxylic Acids</b></li> <li>• <b>Biomolecules</b></li> </ul>
<b>Mode of questions</b>	<b>MCQ based</b>	<b>Descriptive</b>
<b>Marks</b>	<b>50</b>	<b>30</b>
<b>Number of questions and marks</b>	No of Question:30 Each of 1 mark: 30x1=30 No of Question:5 Each of 2 marks:5x2=10 <b>Total Marks:30+10=40</b>	<b>Part-I</b> No of questions :6 Each of 2 marks Total:6x2=12 <b>Part -II</b> No of questions:6 Each of 3 marks Total : 6x3=18 <b>Total Marks:12+18=30</b> (Options will be within the parts)
<b>Project Work : 30 Marks</b>		

<b>Mathematics</b>		
<b>Marks Distribution : (50+30+20=100)</b>		
PARTS	PART A (50 marks)	PART B (30 marks)
<b>SYLLABUS</b>	<p><b>(Entire Syllabus of SEMESTER I)</b></p> <p><b>Part-I</b> <b>Unit 1</b> Relations and Functions (<i>Complete Unit</i>)</p> <p><b>Unit 2</b> Algebra (<i>Complete Unit</i>)</p> <p><b>Unit 3</b> Calculus (i) Continuity, Differentiability and (ii) Applications of derivatives</p> <p><b>Part-II</b> <b>Unit 5</b> Vectors (complete unit)</p> <p><b>Unit 6</b> Three dimensional Geometry (Lines)</p> <p><b>OR</b></p> <p><b>Part-III</b> <b>Unit 8</b> Application of calculus (complete unit)</p>	<p><b>(some units from SEMESTER II Syllabus)</b></p> <p><b>Part-I</b> <b>Unit 3</b> Calculus (Integrals)</p> <p><b>Part-II</b></p> <p><b>Unit 6</b> Three dimensional Geometry (Planes)</p> <p>OR</p> <p><b>Part-III</b> <b>Unit 9</b> Linear Regression (Complete Unit)</p>
<b>Mode of Questions</b>	<b>MCQ based</b>	<b>Descriptive type</b>
<b>Marks</b>	<b>50</b>	<b>30</b>
<b>No. of Question along with marks:</b>	<p><b>Part-I (40 Marks)</b> Simple MCQ 1 mark 20 questions (20x1=20) Complex MCQ 2 Marks 3 questions (3x2=6) Assertion and Reasoning Questions 2 Marks 3 questions (3x2=6)</p> <p><b>Part-II (10 marks)</b> Simple MCQ 1 mark 5 questions (5x1=5) Complex MCQ 2 marks 2 questions (2x2=4)</p> <p><b>OR</b></p> <p><b>Part-III (10 marks)</b> Simple MCQ 1 mark 5 questions (5x1=5) Complex MCQ 2 marks 2 questions (2x2=4)</p>	<p><b>Part-I (20 Marks)</b> 2 marks 2 questions (2x2=4) 4 marks 4 questions (4x4=16)</p> <p><b>Part-II (10 marks)</b> 2 marks 1 question (1x2=2) 4 marks 2 questions (4x2=8)</p> <p><b>OR</b></p> <p><b>Part-III (10 marks)</b> 2 marks 1 question (1x2=2) 4 marks 2 questions (4x2=8)</p>
<b>Project Work : 20 Marks</b>		

<b>Computer Science</b>		
<b>Marks Distributions (40+30+30=100)</b>		
SECTIONS	SECTION-A (40marks)	SECTION-B (30marks)
<b>SYLLABUS</b>	(Entire Syllabus of SEMESTER-I)  <b>UNIT1to Unit 10</b> Chapter :1,2,3, 4,5,6, 7,8,9, 10 (Only Arrays)	(Two units from SEMESTER- II Syllabus) <b>UNIT 10:</b> Strings <b>UNIT11:</b> Recursion
<b>Mode of Questions</b>	<b>MCQ based</b>	<b>Descriptive type</b>
<b>Marks</b>	<b>40</b>	<b>30</b>
<b>No. of question along with marks:</b>	<b>Section A</b> No. of Questions: 40 Total Marks : 40	<b>Section B</b> <b>Part-I</b> (Compulsary) No. of Questions : 2 Total Marks : 10
	Marks Distribution:  20x1=20 10x 2= 20 Total Marks =40	Marks Distribution: Q1. –  6 Marks Q2. – 4Marks  <b>Part-II</b> (Optional: 2 out of 3)  No.Question:2  Total Marks : 20 Marks Distribution: 10x2=20 Total Marks: 10(Part I) +20(Part II) =30
<b>Project Work : 30 Marks</b>		

<b>Hindi</b>		
<b>Marks distribution 40+40+20=100</b>		
SECTIONS	Section-A (40 marks) ( As per the syllabus for ISC-Class XII 2021-22 )	Section-B (40 marks) ( As per the syllabus for ISC -Class XII 2021-22 )
<b>SYLLABUS</b>	( Entire Syllabus of Semester I)  व्याकरण:- i) अपठित गद्यांश  ii) व्याकरण  सारा आकाश:- पूर्वाद्धः सौंझ बिना उत्तर वाली दस दिशाएँ :- पाठ 1 से 10 तक  गद्य संकलन :- i) पुत्र प्रेम : मुंशी प्रेमचंद ii) गौरी: सुभद्रा कुमारी चौहान iii) शरणागत: वृंदावन लाल वर्मा iv) सती : शिवानी  काव्य मंजरी :- i) साखी : कबीरदास ii) बाल लीला: सुरदास iii) एक फूल की चाह: सियारामशरण गुप्त iv) धरती कितना देती है: सुमित्रानंदन पंत	(Entire Syllabus of Semester II)  व्याकरण:- i) निबंध लेखन  ii) व्याकरण  सारा आकाश:- उत्तराद्धः सुबह प्रश्न-पीड़ित दस दिशाएँ :- पाठ 1 से 10 तक  गद्य संकलन :- i) आउटसाइडर : मालती जोशी ii) क्या निराश हुआ जाए : हजारी प्रसाद द्विवेदी iii) भक्तिन : महादेवी वर्मा iv) संस्कृति क्या है? : रामधारी सिंह 'दिनकर'  काव्य मंजरी :- i) नदी के द्वीप : अज्ञेय ii) जाग तुझको दूर जानाहै : महादेवी वर्मा iii) उद्यमी नर : रामधारी सिंह 'दिनकर' iv) बादल को घिरते देखा है: नागार्जुन

Mode of Questions	MCQ based	Descriptive type
Marks	40	40
Number of questions along with marks.	<p>Number of Questions :40 Marks</p> <p>Marks :1</p> <p>Total Marks :40×1=40</p>	<p>निबंध लेखन :- 10</p> <p>व्याकरण:- 5</p> <p>सारा आकाश उपन्यास :-2+3=5</p> <p>गद्द संकलन 1+2+2+5=10</p> <p>काव्य मंजरी 1+2+2+5=10</p> <p>Total marks - 10+5+5+10+10=40</p>
Project :- परियोजना कार्य	<p>परियोजना कार्य Marks -20</p> <p>छायावादी कवि सुमित्रानंदन पंत का साहित्यिक परिचय देते हुए "आ: धरती कितना देती है" शीर्षक कविता का सारांश लिखें और संदेश स्पष्ट करें।</p>	