



## **GREEN VIEW PUBLIC SCHOOL**

### **HOLIDAY HOMEWORK**

**SUBJECT: ENGLISH**

**CLASS: XII (2020-21)**

#### **LITERATURE :**

**FLEMINGO- THE LAST LESSON**

**LOST SPRING**

**DEEP WATER**

**VISTAS- THE THIRD LEVEL**

**THE TIGER KING**

**JOURNEY TO THE END OF THE EARTH**

**Do textbook questions of the above chapters and revise them.**

#### **WRITING SECTION:**

##### **WRITE**

- A Notice
- A Job Application
- A Letter of complaint
- An Article

#### **(BIOLOGY)**

### **HOLIDAY HOMEWORK**

#### **SESSION 2020-21**

1) Complete your Biology investigatory project file under the headings given below and submit it after the summer break.

Index, Theory, Procedure, Observation table, Result & Conclusion as well as Bibliography. Investigatory project report should be on any topic of your choice which is relevant with biology curriculum.

2) Complete the given assignment of unit- VIII ( ch: 8,9 & 10) & unit- X ( ch: 13,14,15 & 16) in your assignment register.

3) Complete notes of all the above mentioned chapters given to you during online classes.

## CHEMISTRY

1) Prepare a investigatory project according to CBSE pattern for final practical examination which contains 4 marks in final exam. Students should make project only on allotted topic.

2) Solve question of assignment, ncert intext and exercise question in separate notebook of given chapters:

Chapter:2- Solutions

Chapter:3- Electrochemistry

Chapter:4- Chemical Kinetics

Chapter:5- Surface chemistry

Chapter:6-Metallurgy

Chapter:8- d and f block elements

Chapter:9-Coordination compounds

## MATHS

1. 1  
Write the principal values of  $\sin^{-1}\left(-\frac{\sqrt{3}}{2}\right)$ .
2. Write the principal values of  $\sec^{-1}(-2)$ . 1
3. 1  
Write the principal values of  $\sin^{-1}\left(\frac{\sqrt{3}}{2}\right)$ .
4. 1  
Write the principal values of  $\cos^{-1}\left(-\frac{1}{\sqrt{2}}\right)$ .
5. Find the principal value of  $\operatorname{cosec}^{-1}(2)$ . 1
6. Write one branch of  $\sin^{-1}x$  other than the principal branch. 1
7. Write the principal value of  $\operatorname{cosec}^{-1}(2)$ . 1
8. 1  
Is matrix  $A = \begin{bmatrix} 0 & -1 & 2 \\ 1 & 0 & -9 \\ -2 & 3 & 0 \end{bmatrix}$  symmetric or skew symmetric? Give a reason.
9. 1  
If  $A = \begin{bmatrix} 2 & 4 \\ 3 & 2 \end{bmatrix}$  and  $B = \begin{bmatrix} -2 & 5 \\ 3 & 4 \end{bmatrix}$ , then find  $(3A - B)$ .
10. Differentiate  $\sin^{-1}x^2$ , with respect to  $x$ . 1
11. Differentiate  $e^{-2x}$  with respect to  $x$ . 1
12. Differentiate  $\log_e(\sin x)$  with respect to  $x$ . 1
13. 1  
 $\frac{dy}{dx}$

If  $y = e^{-3 \log x}$ , then find

14. 1  
If  $xy = 9$ , find  $\frac{dy}{dx}$ .

15. Find the maximum and minimum values, if any, of the function given by  $g(x) = x^3 + 1$ . 1

16. 1  
Show that the function  $f(x) = \log(\cos x)$  is decreasing in  $\left(0, \frac{\pi}{2}\right)$

17. 2  
Find the value of  $\sin \left[ \frac{\pi}{3} - \sin^{-1} \left( -\frac{1}{2} \right) \right]$

18. 2  
Find the principal value of  $\sin^{-1} \left( -\frac{1}{2} \right) + \cos^{-1} \left( -\frac{1}{2} \right)$

19. 2  
Show that  $\sin^{-1} (2x \sqrt{1-x^2}) = 2 \sin^{-1} x - \frac{1}{\sqrt{2}} \leq x \leq \frac{1}{\sqrt{2}}$

20. 2  
Find the value of  $\cot(\sec^{-1} x + \sin^{-1} \frac{1}{x})$

21. 2  
Prove that  $\sin^{-1} x = \tan^{-1} \left( \frac{x}{\sqrt{1-x^2}} \right)$

22. 2  
Write  $\cot^{-1} \left( \frac{1}{\sqrt{x^2-1}} \right) > 1$  in the simplest form.

23. 2  
Find the value of  $\tan \left( 2 \tan^{-1} \frac{1}{5} \right)$

24. 2  
Prove the following:  $\tan^{-1} \sqrt{x} = \frac{1}{2} \cos^{-1} \left( \frac{1-x}{1+x} \right), x \in [0, 1]$

25. 2  
Write the principal values of  $\cos^{-1} \left( \frac{1}{2} \right) - 2 \sin^{-1} \left( -\frac{1}{2} \right)$ .

26. 2  
Prove that  $\tan^{-1} x = \sin^{-1} \left( \frac{x}{\sqrt{1+x^2}} \right)$

27. 2  
Prove that  $\cos^{-1} x = 2 \sin^{-1} \sqrt{\frac{1-x}{2}}$

28. 2  
If  $\tan^{-1} x + \tan^{-1} y = \frac{\pi}{4}$ ,  $xy < 1$ , then write the value of  $x + y + xy$ .

29. 2  
Find the value of the following expression:  $\sin^{-1} \left( \sin \frac{2\pi}{3} \right)$

30. Find the value of the following expression:  $\cos^{-1} \left( \cos \frac{13\pi}{6} \right)$  2
31. Write the following function in the simplest form  $\tan^{-1} \left[ \frac{3x - x^3}{1 - 3x^2} \right]$ . 2
32. Write the following function in the simplest form  $\tan^{-1} \sqrt{\frac{1 - \cos 3x}{1 + \cos 3x}}, x < \pi$  2
33. Find the principal value of  $\cos^{-1} \left( \cos \frac{7\pi}{6} \right)$  2
34. Write the value of  $\tan^{-1}(\sqrt{3}) + \cot^{-1}\left(\frac{1}{\sqrt{3}}\right)$  2
35. Evaluate  $\sec^{-1}\left(\frac{x-3}{x+3}\right) + \sin^{-1}\left(\frac{x+3}{x-3}\right)$  2
36. Prove that  $\cos^{-1} x = 2 \cos^{-1} \sqrt{\frac{1+x}{2}}$  2
37. Find the values of x, y and z, if  $\begin{bmatrix} x+y+z \\ x+z \\ y+z \end{bmatrix} = \begin{bmatrix} 9 \\ 5 \\ 7 \end{bmatrix}$  2
38. If  $A = \begin{bmatrix} \cos \alpha & -\sin \alpha \\ \sin \alpha & \cos \alpha \end{bmatrix}$  then for what value of  $\alpha$ , A is an identity matrix? 2
39. If  $\begin{bmatrix} 2 & 3 \\ 5 & 7 \end{bmatrix} \begin{bmatrix} 1 & -3 \\ -2 & 4 \end{bmatrix} = \begin{bmatrix} -4 & 6 \\ -9 & x \end{bmatrix}$ , find the value of x. 2
40. Write the value of  $x - y + z$  from the following equation:  $\begin{bmatrix} x+y+z \\ x+z \\ y+z \end{bmatrix} = \begin{bmatrix} 9 \\ 5 \\ 7 \end{bmatrix}$  2

## HOLIDAYS HOMEWORK

### CLASS XII (PHYSICS)

#### ELECTROSTATISTICS

- 1) State the principle of quantization of electrical charges.
- 2) Define electric fielding density. Write its expression due to a point charge and find its dimension.
- 3) Draw electric field lines of an electric dipole.
- 4) Write three properties of electric field lines.
- 5) Define electric dipole moment. What is its unit in S.I system?
- 6) Derive an expression for the torque acting on an electric dipole placed in a uniform electric field and hence find its potential energy.
- 7) What do you mean by electric potential? Derive an expression for it due to a point charge.
- 8) Explain three properties of equipotential surfaces.
- 9) State Gauss's theorem and using it derive the expression for electric field due to a uniformly charged spherical shell.
- 10) Write the principle of a capacitor and derive expression for energy stored in a capacitor.
- 11) Calculate the electrostatic force between two alpha particles at a distance of  $2 \times 10^{-5}$  m between them.
- 12) Why do electric field lines never cross each other?
- 13) Derive an expression for the electric field at a point on the equatorial line of an electric dipole.
- 14) No work is done in moving a test charge over an equipotential surface. Why?
- 15) Derive an expression for the capacitance of a parallel plate capacitor. On what factors does the capacitance of parallel plate capacitor depend?
- 16) A charge  $Q \mu\text{C}$  is placed at the centre of a cube. What is the electric flux coming out from any one surface.
- 18.) Two capacitor of capacitances  $2\mu\text{F}$  and  $2\mu\text{F}$  are connected first in series and then parallel. What is the ratio of their capacitances?
19. What is electrostatic shielding.

20. a parallel plate capacitor is charged by a battery. After some times the battery is disconnected and a dielectric with its thickness equal to the plate separation is inserted b/w the plates .How will (i) the capacitance of the capacitor (ii) potential difference b/w the plates and (iii) the energy stored in the capacitor be affected?

21.) Calculate the equivalent capacitance between the points A and B in the combination shown below:

Given  $C_1 = 5\mu\text{F}$ ;  $C_2 = 10\mu\text{F}$  ;  $C_3 = 15\mu\text{F}$ ;  $C_4 = 30\mu\text{F}$

22.) NCERT Exercise problem no.1.4

23.) NCERT Exercise problem no.1.7

24.) NCERT Exercise problem no.1.8

25.) NCERT Exercise problem no.1.11

26.) NCERT Exercise problem no.1.12

27.) NCERT Exercise problem no.1.14

28.) NCERT Exercise problem no.1.26

28.) NCERT Exercise problem no.2.4

29.) NCERT Exercise problem no.2.6

30.) NCERT Exercise problem no.2.7

31.) NCERT Exercise problem no.2.25

## Holiday Homework Class – XII Computer Science

Revise and learn all the concepts of the following :-

- 1) Networking
- 2) Database Management

- Create a student table and insert data.

Implement the following SQL commands on the student table: ALTER table to add new attributes / modify data type / drop attribute UPDATE table to modify data ORDER By to display data in ascending / descending order DELETE to remove tuple(s) GROUP BY and find the min, max, sum, count and average

3) What are constraints? Explain various constraints with example.

4) Create a table employee with atleast 6 columns with various constraints.

- a) Write degree and cardinality of employee table.
- b) Add any new column to employee table.
- c) Write 20 MYSQL query related to employee table e.g. update, select, alter, etc) with output.

## **Holiday Home Work Class XII (Commerce)**

### **ACCOUNTANCY**

Students have to complete their Comprehensive project by selecting any business of their choice. It should be based on the business Financial Statements wherein students must prepare various accounts like :

Journal Entries

Ledger

Trial Balance

Financial Statements ( Trading, P&L , Balance Sheet)

Also students need to analyse the financial statements by applying various accounting ratios and Frame a story line of business performance.

Students are Already provided some support material which u can take help from also u can contact Subject teacher for further help.

All The Best

### **BUSINESS STUDIES HOLIDAY HOMEWORK**

Students have to prepare CBSE Project of business studies on any following topic :

A ) Fayol's Principles of management

OR

B) Marketing Management (Any product)

Students Have to select any topics mentioned above and make a project in 35 to 40 pages in A4 Size sheet.

All the Best

**HOLIDAY HOME WORK CLASS 12<sup>TH</sup> - 2020 -2021****11 JUNE 2020 TO 30 JUNE 2020****Section C, D Economics Subject teacher Gaurav Verma**

Chapters			remark
Macro chapter no 1 to 9	All question of 1 <sup>st</sup> to 9 th chapters I m giving already to the students in pdf format via whatsapp and mail	Note the all assigned work they should noted in home work note book	I discussed all these chapters and gave to them pdf of all the chapters to the students
Board project file work	Topic of project file each and every students I assigned to list of Project topic name wise given to students already with all relative instructions of preparing the file		

**GREEN VIEW PUBLIC SR. SEC SCHOOL****CLASS – XII****HISTORY HOLIDAY HOMEWORK****General Instructions:-**

Students should prepare individual dummy projects of about 50 pages for CBSE assessment. The project should be prepared according to the guidelines already issued in class. Present the following in your project report:

- Data/Statistical Analysis/ Map work.
- Analysis/Explanation and interpretation.
- Bibliography

Students can use primary sources as well as secondary sources. Choose any one of the following topics:

- ❖ Town planning and artefacts of the Harappan Civilization.
- ❖ Mahabharata through a reader's eye.
- ❖ India - through the travellers' eyes.
- ❖ Understanding the Bhakti-Sufi Movement in India.
- ❖ Depiction of life during Mughal period through paintings.
- ❖ The Partition in 1947 – not just a division of territory but also of hearts.



## **GEOGRAPHY HOLIDAY HOMEWORK**

### **General Instructions:-**

Students should prepare individual dummy projects of about 50 pages for CBSE assessment. The project should be prepared according to the guidelines already issued in class. Present the following in your project report:

- Data/Statistical Analysis/ Map work.
- Analysis/Explanation and interpretation.
- Bibliography

Students can use primary sources as well as secondary sources. Choose any one of the following topics:

- ❖ Population composition
- ❖ Manufacturer Industry
- ❖ Transport and Communication

**ग्रीष्मकालीन अवकाश गृह कार्य**

**ग्रीन व्यू पब्लिक स्कूल**

**कक्षा - बारहवीं डी**

**विषय - हिंदी**

### **1 . परियोजना कार्य**

अनुक्रमांक ( 1 - 5 ) हिंदी साहित्य का आदिकाल

अनुक्रमांक ( 6 - 10 ) हिंदी साहित्य का भक्तिकाल

अनुक्रमांक ( 11 - 15 ) हिंदी साहित्य का रीतिकाल

अनुक्रमांक ( 16 - 20 ) हिंदी उपन्यास और विकासक्रम

अनुक्रमांक ( 21 - 25 ) हिंदी नाटक और विकासक्रम

अनुक्रमांक ( 26 - 30 ) हिंदी निबंध और विकासक्रम

**2 . कोरोना की इस महामारी के दौरान आप एक जिम्मेदार भारतीय नागरिक के रूप में किस प्रकार के दायित्वों का निर्वाह करना चाहेंगे और क्यों ?**

**3 . गद्य खंड और काव्य खंड के प्रश्न - उत्तरों को समझकर , यादकर लिखने का अभ्यास कीजिए ।**

**4 . कवि और लेखक परिचय पढ़कर आपने उनके जीवन से क्या सीखा , अपने शब्दों में लिखिए ।**

**5 . निम्नलिखित विषयों पर मौलिक निबंध लिखिए -**

**( क ) प्रकृति और हम**

**( ख ) युवा वर्ग**

**( ग ) मेरा भारत महान**

**( घ ) वैज्ञानिक पथ पर भारत**



# **GREEN VIEW PUBLIC SCHOOL**

**CLASS – XII**

**HOLIDAY HOMEWORK**

**SESSION 2020-21**

**SUBJECT- PAINTING**

## **General Instructions**

- Do all art work neatly.
  - Do the concepts on half imperial size cartridge sheet.
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1. Make any two still life with poster colours with drapery.
2. Make any two beautiful landscapes and complete by using poster colours.
3. Make any two compositions minimum with four figures with poster colours or water colours.
4. Bring your notebooks with complete work.