

## **HOLIDAY HOMEWORK-2021-22**

### **CLASS – XII**

#### **ENGLISH**

1. Write a brief review of the book that you enjoyed the most (200 words).
2. You are concerned about the wastage of money and manpower due to the frequent elections in your country. Write an article on the urgent need to have a stable government (200 words).

#### **PHYSICS**

##### **XII-A**

S. No.	NAME	TOPIC
1	ALIZA MEHAR	Coulomb's law and principle of superposition.
2	AREEBA KHAN	Gauss's law and its applications.
3	ASBA FARHAN	Concept of an electric dipole and dipole moment. Expression for an electric field on the axial line and equatorial line.
4	HIBA SALEEM	Explanation of Capacitor and Capacitance with energy stored in a capacitor.
5	IQRA SHAMEEM	Kirchhoff's laws and its applications.
6	KHAN ANAM FAKHRUZZAMAN	Biot-Savart's laws and its applications.
7	SABA PARVEEN	Ampere's law with its application.
8	SARAH SAYEED	Concept of electromagnetic induction with Faraday's laws.
9	SIMRAN KHAN	Description of Self and mutual inductance with its expression.
10	TOOBA NAJMI	Analytical treatment of LCR circuit with its expression of impedance.
11	ZAINAB JAMAL	Description of construction of Moving coil galvanometer with its advantage and disadvantage.
12	MADEEHA KHAN	LENS- MAKER's FORMULA with its description and construction of simple/compound microscopes.

13	SABIKA SAMAN	Huygens's principle with its verification of laws of reflection and refraction.
14	FATIMA	Concept of semi-conductor with explanation of p-n junction diode.
15	MUBASHARA USMANI	Concept of Einstein's theory of relativity with its mathematical expression.

## **XII-B**

<b>S.No.</b>	<b>NAME</b>	<b>TOPIC</b>
1	ABDULREHMAN	Coulomb's law and principle of superposition.
2	ABDUSSAMADWASI	Gauss's law and its applications.
3	ABUAFFANKHAN	Concept of an electric dipole and dipole moment. Expression for an electric field on the axial line and equatorial line.
4	ABUTURABGHALIB MALIK	Explanation of Capacitor and Capacitance with energy stored in a capacitor.
5	AREEBKHAN	Kirchhoff's laws and its applications.
6	ARMANISHAQ	Biot-Savart's laws and its applications.
7	ARSALANHABIB	Ampere's law with its application.
8	GHULAMMUSTAFA	Concept of electromagnetic induction with Faraday's laws.
9	IRFANALI	Description of Self and mutual inductance with its expression.
10	MOHDWARISH	Analytical treatment of LCR circuit with its expression of impedance.
11	MOHDASJADKHAN	Description of construction of Moving coil galvanometer with its advantage and disadvantage.
12	MOHDDFAIZ	LENS- MAKER's FORMULA with its description and construction of simple/compound microscopes.
13	MOHDSAIF	Huygens's principle with its verification of laws of reflection and refraction.
14	SUBHANADIL	Concept of semi-conductor with explanation of p-n junction diode.
15	YASIRMAHFOOZ	Concept of Einstein's theory of relativity with its mathematical expression.
16	ZAIDALIKHAN	Coulomb's law and principle of superposition.
17	MAZINMOHDIQBAL	Gauss's law and its applications.

## CHEMISTRY

### XII-A

S. No.	NAME	TOPIC
1	ALIZA MEHAR	Study of common food adulterants in fat, oil, butter, sugar, turmeric powder, chilli powder and pepper.
2	AREEBA KHAN	Vitamins-classification and functions.
3	ASBA FARHAN	Catalysis
4	HIBA SALEEM	Study of factors affecting rate of adsorption.
5	IQRA SHAMEEM	Defects in solids
6	KHAN ANAM FAKHRUZZAMAN	Study of factors affecting rate of a chemical reaction.
7	SABA PARVEEN	Primary and Secondary batteries
8	SARAH SAYEED	Electrical and magnetic properties of solids.
9	SIMRAN KHAN	Uses and environmental effects of –dichloromethane, tichloromethane, tetrachloromethane, iodoform, freons and DDT.
10	TOOBA NAJMI	Conductors, semiconductors and insulators.
11	ZAINAB JAMAL	Effect of doping on electrical properties of solids.
12	MADEEHA KHAN	Study the constituents of different alloys.
13	SABIKA SAMAN	Fuel cells and their applications.
14	FATIMA	Emulsion: their types and various applications.
15	MUBASHARA USMANI	Extraction of essential oils present in aniseed (saunf), carum (ajwain) and cardamom (illaichi ).

**XII-B**

S.No.	NAME	TOPIC
1	ABDUL REHMAN	Comparison of foaming capacity of different soaps.
2	ABDUS SAMAD WASI	Conductors, semiconductors and insulators.
3	ABU AFFAN KHAN	Carbohydrates: classification and uses.
4	ABU TURAB GHALIB MALIK	Study the constituents of different alloys.
5	AREEB KHAN	Preparation, properties and uses of ammonia and sulphuric acid.
6	ARMAN ISHAQ	Preparation, properties and uses of interhalogen compounds.
7	ARSALAN HABIB	Oxoacids of sulphur and their uses.
8	GHULAMMUSTAFA	General chemistry of group 14 elements and their common uses.
9	IRFAN ALI	Enzyme catalysis
10	MOHD WARISH	General Chemistry of d- and f- block elements with few applications.
11	MOHD ASJAD KHAN	Study of factors affecting rate of a chemical reaction.
12	MOHD FAIZ	Uses and environmental effects of –dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons and DDT.
13	MOHD SAIF	Study of colloidal systems and their few uses.
14	SUBHAN ADIL	Study the effect of potassium bi sulphate as food preservative under various conditions (temperature, concentration, time etc.).
15	YASIR MAHFOOZ	Catalysis
16	ZAID ALI KHAN	General chemistry of group 15 elements and their common uses.
17	MAZIN MOHD IQBAL	Study of common food adulterants in fat, oil, butter, sugar, turmeric

		powder, chilli powder and pepper.
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## **BIOLOGY**

### **XII-A**

<b>S. No.</b>	<b>NAME</b>	<b>ASSIGNMENT TOPICS</b>
<b>1</b>	ALIZA MEHAR	FORMATION AND DEVELOPMENT OF POLLEN GRAIN AND METHODS OF POLLINATION
<b>2</b>	AREEBA KHAN	HUMAN GAMETOGENESIS
<b>3</b>	ASBA FARHAN	GENETIC DISORDERS
<b>4</b>	HIBA SALEEM	THE CHROMOSOMES AND DNA PACKAGING
<b>5</b>	IQRA SHAMEEM	DEPLETION OF OZONE LAYER- ITS CAUSES AND CONTROL
<b>6</b>	SABA PARVEEN	BIOTECHNOLOGICAL APPLICATIONS IN AGRICULTURE
<b>7</b>	SARAH SAYEED	MICROBES IN INDUSTRIAL PRODUCTION
<b>8</b>	SIMRAN KHAN	TRANSGENIC PLANT PRODUCTION AND ITS APPLICATIONS
<b>9</b>	TOOBA NAJMI	SEX DETERMINATION IN HUMAN BEINGS
<b>10</b>	ZAINAB JAMAL	DNA REPLICATION
<b>11</b>	MADEEHA KHAN	RECOMBINANT DNA TECHNOLOGY AND TOOLS OF RDT
<b>12</b>	SABIKA SAMAN	TRANSCRIPTION IN PROKARYOTES AND EUKARYOTES
<b>13</b>	FATIMA	LINKAGE AND CROSSING OVER
<b>14</b>	MUBASHARA USMANI	METHODS OF ASEXUAL REPRODUCTION

## **XII-B**

<b>S. No.</b>	<b>NAMES</b>	<b>ASSIGNMENT TOPICS</b>
<b>1</b>	ABDUL REHMAN	FORMATION & DEVELOPMENT OF POLLEN GRAIN AND METHODS OF POLLINATION
<b>2</b>	ABDUS SAMAD WASI	HUMAN GAMETOGENESIS
<b>3</b>	ABU TURAB GALIB KHAN	THE CHROMOSOMES AND DNA PACKAGING
<b>4</b>	ARMAN ISHAQ	DEPLETION OF OZONE LAYER- ITS CAUSES AND CONTROL
<b>5</b>	ARSALAN HABIB	BIOTECHNOLOGICAL APPLICATIONS IN MEDICINE
<b>6</b>	GHULAM MUSTAFA	GLOBAL WARMING – ITS CAUSES AND CONTROL
<b>7</b>	IRFAN AL	TRANSGENIC PLANT PRODUCTION AND ITS APPLICATIONS
<b>8</b>	MOHD WARISH	WATER POLLUTION- SOURCES, EFFECTS AND CONTROL
<b>9</b>	MOHD ASJAD KHAN	GENETICS CODE AND ITS CHARACTERISTICS
<b>10</b>	MOHD FAIZ	TRANSCRIPTION IN PROKARYOTES AND EUKARYOTES
<b>11</b>	MOHD SAIF	MENDEL’S LAW OF INHERITANCE
<b>12</b>	YASIR MAHFOOZ	BIOLOGICAL EVOLUTION & EVIDENCES OF BIOLOGICAL EVOLUTION
<b>13</b>	ZAID ALI KHAN	CAUSES & IMPACT OF SOLID WASTE LANDFILLING ON ENVIRONMENT AND ITS CONTROL
<b>14</b>	MAZIN MOHD IQBAL	CONSERVATION OF BIODIVERSITY & CAUSES OF EXTINCTION OF BIODIVERSITY

## **MATHEMATICS**

**Activity 1:** To relate the matrices with real life.

## URDU

- ۱۔ میگھالیہ شہر کی نمایاں خصوصیات پر ایک مختصر نوٹ لکھیے۔
  - ۲۔ کسی شہر کا خاکہ لکھیے جہاں آپ سیرو تفریح کے لیے گئے ہوں یا اپنے شہر کی نمایاں خصوصیات کا خاکہ لکھیے۔
  - ۳۔ فون رحمت یا زحمت پر ایک مختصر نوٹ لکھیے۔
  - ۴۔ جو اسباق آپ پڑھ چکے ہیں انکے الفاظ معنی اور سوال و جواب یاد کیجیے۔
- \*نوٹ: سوال نمبر "۱" یا "۲" اور "۳" کے جواب کو pdf بنا کر بھیجیے گا۔

## HEALTH AND PHYSICAL EDUCATION (HPE)

### XII-A

Roll. no.	HPE Project (write about 10 to 15 pages)
1.	Environment Conscious Citizens As Part Of Eco Clubs
2.	Management Of Soft Tissue Injuries
3.	Preparation Of Family Budget And Maintenance Of Daily Household Accounts
4.	Running School Café With Focus On Nutrition
5.	School Gardening Project
6.	Adopting An Orphanage For conducting joyful activities
7.	School Water Use Audits

8.	Khelo India Program
9.	Meaning And Importance Of Yoga
10.	Home Water Use Audits
11.	Meaning And Importance Of Physical Fitness, Wellness And Lifestyle
12.	Setting Up rainwater harvesting structures
13.	Leadership Qualities And Role Of a Leader
14.	Project on indigenous Methods Of Water conservation
15.	Safety measures To Prevent Sports Injuries
16.	Metering Use of Water Saving devices/Taps And ensuring no Leakages in Plumbing Pipes etc.
17.	Balanced Diet And Nutrition Macro And Micro Nutrients
18.	Causes Of Disability
19.	Project on awareness and Planting drought prone / native plants / trees
20.	Reduce , Recycle, Reuse (most important 3R s) And Now Respect
21.	Motor Development In Children
22.	Yoga For Preventing Obesity
23.	Postural Deformities And Their Corrective Measures
24.	Project on Recycling of Water-example from RO plants, etc.
25.	Motor Fitness Test / Khelo-India National Fitness Test
26.	How The virus That causes COVID-19 differs from other corona viruses

## **XII-B**

<b>S. No</b>	<b>HPE Project (write about 10 to 15 pages)</b>
1.	Reduce , Recycle, Reuse (most important 3R s) And Now Respect



2.	Motor Development In Children
3.	Yoga For Preventing Obesity
4.	Postural Deformities And Their Corrective Measures
5.	Project on Recycling of Water-example from RO plants, etc.
6.	Motor Fitness Test / Khelo-India National Fitness Test
7.	How The virus That causes COVID-19 differs from other corona viruses
8.	Projects On Understanding Water Pollution
9.	Corona virus (covid-19) Infection control and prevention measure
10.	Importance Of Physical Fitness , Wellness And Healthy Lifestyle
11.	Olympic Symbol, Torch , Moto, Oath
12.	How to Protect Yourself against COVID- 19
13.	Qualities Of A Leader OR Captain
14.	Visiting municipal Water treatment and supply Plants and monitoring Water Quality at school / home
15.	Environment Conscious Citizens As Part Of Eco Clubs
16.	Advantages Of Physical Activities For Children With Special Needs
17.	Preparation Of Family Budget And Maintenance Of Daily Household Accounts
18.	Running School Café With Focus On Nutrition
19.	School Gardening Project

## **COMPUTER**

Create a mini website with the use of HTML code.

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