HOLIDAY HOMEWORK-2021-22

CLASS - X

ENGLISH

- 1.We have travelled from the stone age to the age of computers. There has been an explosion of technology in the field of science. Write an article in about 100-150 words on the topic "The future of information Technology".
- 2. It is a good time to indulge in some creativity; write a short story.

MATHEMATICS

- **Q.1** Given that HCF(x,y) = 3, find the LCM(x, y). If xy = 180
- Q.2 Find a quadratic polynomial, the sum and product of whose zeroes 5and6respectively.
- **Q3.**Check whether the given equation (x-2)(x+1) = (x-1)(x+3) is quadratic equation.
- **Q.4** Find the discriminant of the quadratic equation $2x^2 4x + 3 = 0$, and hence find the nature of its roots.
- **Q.5.**Prove that $\sqrt{3}$ is an irrational number.
- **Q.6** The decimal representation of $\frac{13}{3125}$ will have a terminating decimal expansion or a non terminating repeating decimal expansion.
- **Q7.**Find a quadratic polynomial, the sum and product of whose zeroes are -5 And 6, respectively.
- **Q.8** Explain why $3 \times 5 \times 7 + 9 \times 7$ is a composite number.
- **Q.9** Find the point on the x-axis which is equidistant from the points A(7,6) and B(-3,4).

OR

Find the ratio in which the point P(m, 6) divides the line segment joining the points A(-4,3) and B(2,8). Also, find the value of m.

- **Q.10** If α and β are zeroes of the polynomial $p(x) = 3x^2 4x 7$, find the value of $\frac{1}{\alpha} + \frac{1}{\beta}$.
- **Q.11**Solve $:4x^2 2(a^2 + b^2)x + a^2b^2 = 0$

(OR)

In a class test, the sum of Kamal's marks in Mathematics and English is 40. Had he scored 3 more marks in Mathematics and 4 less in English the product the marks in both the tests would have been 360. Find the marks obtained by him in the two subjects separately.

Q.13 Find the LCM and HCF of 65 and 117 by prime factorization method and verify that $LCM \times HCF = Product$ of two numbers.

Q14 Find the value of y for which the distance between the points P(2, -3) and Q(10, y) is 10 unit. **Q.15** Find the zeroes of quadratic polynomial $x^2 + 7x + 10$, and verify the relationship between the zeroes and the coefficients.

SCIENCE

PHYSICS

- 1. Note down the following experiment in your lab manual notebook.
 - **Aim of the Experiment:** Determination of the focal length of:
 - i) Concave mirror
 - ii) Convex lens
 - by obtaining the image of a distant object.
- 2. **Aim of the Experiment:** Finding the image distance for varying object distances in case of
 - a convex lens and drawing corresponding ray diagrams to show the nature of image formed.
- 3. Prepare a project on the topic "The impact of increasing demand of energy on environment."

Your project file must contain

1. Cover page	6. Energy Resources
2. Content	7. Effect on environment
3. Acknowledgment	8. An innovative solution to overcome the
	problem
4. Abstract	9. Conclusion
5. Introduction	10. Bibliography

CHEMISTRY

1. Prepare the activity series of metals with the help of clay or balls made from foam. Paint it with different colours for identification and arrange in decreasing order of the reactivity.

2. Note down the following experiment in your lab manual notebook.

Aim of the Experiment: Performing and observing the following reactions and classifying them into:

- A. Combination reaction
- B. Decomposition reaction
- C. Displacement reaction
- D. Double displacement reaction
 - (i) Action of water on quicklime
 - (ii) Action of heat on ferrous sulphate crystals
 - (iii) Iron nails kept in copper sulphate solution
 - (iv) Reaction between sodium sulphate and barium chloride solutions
- 3. **Aim of the Experiment:**Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions:
 - i) ZnSO4(aq)
 - ii) FeSO4(aq)
 - iii) CuSO4(aq)
 - iv) Al2 (SO4)3(aq)

Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.

BIOLOGY

1. Note the following practical in your Biology practical file and perform on O-labs as shown by your teacher.

Object: Experimentally show that carbon dioxide is given out during respiration.

2. Make an assignment /poster /ppt on "Black Fungus"-it's causes, symptoms and precautions

SOCIAL SCIENCE

Note: Students are advised to do one of the following

- 1) Make a poster on consumer Awareness
- 2) What to you understand by Consumer Right?
- 3) Examples of people's participation for conservation of Natural Resources
- 4) What are the guidelines provided by World Health Organisation WHO, protection against Covid19

Submit file to me

HINDI

- प्रश्न 1. हमारे देश में कितने वृद्धाश्रम हैं इसकी जानकारी प्राप्त करके लिखिए और वृद्धाश्रम की बढ़ती संख्या पर चिंता व्यक्त करते हुए निबंध लिखें-
- प्रश्न 2. चित्रों की सहायता से लघुकथा लिखिए –
- प्रश्न 3. एक्सेल मोबाइल फ़ोन बनाने वाली कंपनी के लिए एक विज्ञापन तैयार कीजिए।
- प्रश्न 4. परीक्षा प्रवेश-पत्र गुम हो जाने के विषय में सूचना तैयार कीजिए -

<u>URDU</u>

۱۔ سرسید احمد خان کی تصویر/slogan یا thoughts ایکsheet پر لکھ کر pdf بنا کر بھجییے۔

۲۔ علامہ اقبال ؔ کی تصویر /اشعار/slogan یا thoughts ایک sheet پر لکھ کر pdf بنا کر بھیجئے۔

۳۔ اپنے پسند یدہ شاعر کے پانچ اشعار ایک صفحہ پرمع شاعر کے نام کے لکھیے۔

 جو اسباق آپ پڑھ چکے ہیں انکے الفاظ و معانی اور سوال و جواب یاد کیجیئے۔

*نوٹ: سوال نمبر "۱" یا "۲" اور ،،۳،،کے جواب کو pdf بناکر بھیجیۓگا ۔

ARABIC

Essay Writing on any two of the following topics (words' limit: 90-100)

١. القلعة الحمراء٢. جامعة علي كراه الإسلامية٣. المسجد الأقصي

HEALTH AND PHYSICAL EDUCATION (HPE)

X-A

Roll no.	HPE Project (write about 10 to 15 pages)
1.	Swachcha Vidyalaya Swachcha Bharat
2.	Dignity Of Labour .
3.	Empathy
4.	Care For Homeless Children
5.	Being Safe And Responsible First Aid
6.	Environment Conscious Citizens As Part Of Eco Clubs
7.	First Aid Awareness raising Demonstration
8.	Preparation Of Family Budget And Maintenance Of Daily Household Accounts
9.	Running School Café With Focus On Nutrition

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

33.	Corona virus (covid-19) Infection control and prevention measures
34.	Yoga for Preventing Asthma
35.	Motor Development In Children
36.	How to Protect Yourself against COVID- 19
37.	Reduce, Recycle, Reuse (most important 3R s) And Now Respect
38.	Yoga for Preventing Obesity
39.	Swachcha Vidyalaya Swachcha Bharat
40.	Dignity Of Labour .
41.	Empathy
42.	Care For Homeless Children
43.	Being Safe And Responsible First Aid

<u>**X-B**</u>

Roll no.	HPE Project (write about 10 to 15 pages)
1.	Environment Conscious Citizens As Part Of Eco	Clubs
2.	First Aid Awareness raising Demonstration	
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 a	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
27.	Projects On Understanding Water Pollution
28.	Corona virus (covid-19) Infection control and prevention measures
29.	Importance Of Physical Fitness, Wellness And Healthy Lifestyle
30.	Olympic Symbol, Torch, Moto, Oath
31.	How to Protect Yourself against COVID- 19
32.	Qualities Of A Leader OR Captain
33.	Visiting municipal Water treatment and supply Plants and monitoring Water Quality at school / home

34.	Environment Conscious Citizens As Part Of Eco Clubs
35.	Yoga for Preventing Asthma
36.	Preparation Of Family Budget And Maintenance Of Daily Household Accounts
37.	Running School Café With Focus On Nutrition
38.	School Gardening Project
39.	Adopting An Orphanage For conducting joyful activities
40.	School Water Use Audits

<u>**X-C**</u>

Roll No.	HPE Project (write about 10 to 15 pages)
1.	SwachchaVidyalaya Swachcha Bharat
2.	Dignity Of Labour .
3.	Empathy
4.	Care For Homeless Children
5.	Being Safe And Responsible First Aid
6.	Environment Conscious Citizens As Part Of Eco Clubs
7.	Balanced Diet
8.	Preparation Of Family Budget And Maintenance Of Daily Household Accounts
9.	Running School Café With Focus On Nutrition
10.	School Gardening Project
11.	Adopting An Orphanage For conducting joyful activities
12.	School Water Use Audits
13.	Khelo India Program

14.	Meaning And Importance Of Yoga
15.	Home Water Use Audits
16.	Meaning And Importance Of Physical Fitness, Wellness And Lifestyle
17.	Setting Up rainwater harvesting structures
18.	Leadership Qualities And Role Of a Leader
19.	Project on indigenous Methods Of Water conservation
20.	Safety measures To Prevent Sports Injuries
21.	Metering Use of Water Saving devices/Taps And ensuring no Leakages in Plumbing Pipes etc.
22.	Balanced Dite And Nutrition Macro And Micro Nutrients
23.	Causes Of Disability
24.	Project on awareness and Planting drought prone / native plants / trees
25.	Reduce, Recycle, Reuse (most important 3R s) And Now Respect
26.	Motor Development In Children
27.	Yoga For Preventing Obesity
28.	Postural Deformities And Their Corrective Measures
29.	Project on Recycling of Water-example from RO plants, etc.
30.	Motor Fitness Test / Khelo-India National Fitness Test
31.	How The virus That causes COVID-19 differs from other corona viruses
32.	Environment Conscious Citizens As Part Of Eco Clubs
33.	Types of Disorders
34.	Nutritive components of Diet
35.	Understanding about ground Water Table
36.	How to Protect Yourself against COVID- 19

37.	Yoga For Preventing Asthma
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COMPUTER

 $\label{eq:make-power-point} \begin{tabular}{ll} Make an attractive chart or Power-Point of Microsoft operating System and Mobile operating system. \end{tabular}$
