Class 9

Holiday Homework

Sub: English

Assign project for class 9th

1) Prepare a Tense File

Summer vacation holiday homework

1) Complete the chapters whatever is being taught

A) The fun they had

B) The sound of music.

HINDI

वर्ग -9

ग्रीष्मावकाश कार्य

(1) लेखक 'प्रेमचंद' का चित्र

फाइल पेपर पर बनाएँ और उनकी जीवनी लिखिए।

(2) कबीर की 'साखियाँ' से कोई दो सखियाँ अर्थ सहित फाइल पेपर पर लिखिए।

(3) संकेत बिंदु के अनुसार दिए गए विषय पर 150 शब्दों में निबंध फाइल पेपर पर लिखें।

(i) आत्मनिर्भरता

संकेत -बिंदु:- भूमिका, आत्मनिर्भरता का प्रथम अध्याय, स्वावलंबन की शक्ति, उन्नति का मूल मंत्र, उपसंहार

(ii) सत्संगति

संकेत -बिंदु:- प्रस्तावना, संगति का प्रभाव व अनिवार्यता, सत्संगति से लाभ, उपसंहार

(iii) सड़क सुरक्षा: जीवन रक्षा

संकेत बिंदु:- भूमिका, सड़क सुरक्षा से जुड़े कुछ प्रमुख नियम, सड़क सुरक्षा के नियमों की अनदेखी से होने वाली हानियाँ, इन्हें अपनाने के लाभ, निष्कर्ष

(4) किसी एक विषय पर चार्ट पेपर में चित्र या कोलॉज या न्यूजपेपर कटिंग की मदद से चित्र बनाएँ उनके बारे में लिखें:-

(i)पहलगाम हमला(ii) ऑपरेशन सिंदूर (iii)मातृ दिवस

(iv) भारतीय सेना की शौर्य शक्ति

Sub : Geography and Civics

1. Why is time along the Standard Meridian of India passing through Mirjapur taken as the standard time?

2. How has land routes contributed in the exchange of ideas and commodities since ancient times?

3. Mention the latitudinal extent of India. How does it Influence the duration of the day and night at different places?

4. Describe the Continental Drift Theory.

5. Explain the theory of plate tectonics.

6. State the differences between Western Himalayas and eastern Himalayas.

7. State the significance of Himalayan ranges for India.

8. How elections in India are different from Mexico?

9. Explain the major features of democracy.

10. “Democracy is better than other forms of government because it allows us to correct its own mistakes”. Explain.

11. Distinguish between democracy and a good democracy.

12. Make up big size map of India on a half chart paper and show any one of the following:

a) Major Mountains

b) Major rivers

c) Physical features of India

d) Indian states with their state capitals.

Sub: History & Economics

Revise and learn the questions and topics from the chapters completed till now(His. & Eco.)

5- Prepare a file on Disaster Management taking any one of the following topic:

1-Flood, 2- Drought, 3- Earthquake, 4- Industrial Accidents

Sub: Chemistry

What are polyatomic ions? Give examples

Write the chemical formula of the following: 1. Magnesium chloride 2. Calcium oxide 3.Aluminium nitrate 4.Calcium carbonate.

Give the names of the elements present in the compounds. 1.Quick lime 2. Baking powder 3.Potassium sulphate

Calculate the molar mass of the following. 1.Ethyne 2. Sulphur molecule 3. Hydrochloric acid 4.Nitric acid

SUB - PHYSICS

Q1) An object has moved through a distance. Can it have zero displacement? If yes , support your answer with an example .

Q2) Distinguish between speed and velocity.

Q3) A bus decreases its speed from 80km/h to 60 km/h in 5s. Find the acceleration of the bus .

Q4) A train starting from a railway station and moving with uniform acceleration attains a speed 40km / h in 10 minutes. Find its acceleration.

Q5) What is the nature of the distance-time graphs for uniform and non-uniform motion of an object?

Q6)What can you say about the motion of an object whose distance-time graph is a straight line parallel to the time axis?

Q7)What can you say about the motion of an object if its speed-time graph is a straight line parallel to the time axis?

Q8) What is the quantity which is measured by the area occupied below the velocity - time graph?

Q9) A bus starting from rest moves with a uniform acceleration of $0.1 m/s^2$ for 2 minutes.Find (a) the speed acquired.(b) the distance travelled.

Q10) A train is travelling at a speed of 90 km / h .Brakes are applied so as to produce a uniform acceleration of -

0.5m/s² .Find how far the train will go before it is bought to rest.

Q11) A trolley while going down an inclined plane , has an acceleration of $2cm/s^2$. What will be its velocity 3s after the start?

Q12)A racing car has a uniform acceleration of $4m/s^2$. What distance will it cover in 10s after start ?

Q13) A stone is thrown in a vertically upward direction with a velocity of 5m/s . If the acceleration of the stone during its motion is 10 m/s^2 in the downward direction. What will be the height attained by the stone and how much time will it take to reach there ?

Q14) Project work - Show different types of motion on a coloured chart paper including daily life examples.

Sub- Bio

Q.1. Make any two investigatory project on the given topics:-

1. Study of effects of antibiotics on microorganisms.

2. How does Music affect plant growth?

3. Factors affecting nodule formation in legumes.

4. Human Cloning.

Q.2. Complete the Intext and text question answers in copy of chapter - Cell, Topic - upto chloroplast.

Sub: IT (402)

Ch-1, Introduction to IT and ITeS Industry

A. Multiple choice questions

B. Give an example of the use of IT in the following areas. Avoid already discussed examples.

C. Short answer questions (50 words)

Q1. What do you understand by the term IT and ITeS?

Q2. What are the pros and cons of using ICT?

Q3. What precautions are required to ensure that ICT use is safe?

Q4. What are the four main sub-sectors in the IT-BPM industry?

Q5. Give examples of use of IT in everyday life.

Q6. How is IT used in libraries?

Q7. What are the various processes of education where IT is used?

Q8. Which software are used in digital communication?

Q9. For what purpose is IT used in business?

Q10. Which are the prominent areas where IT is used in science and engineering?

Q11. List the various uses of IT in a banking system.

Q12. Which are the different areas of healthcare where IT is used? And how?

Q13. List any 5 websites of the Indian government which provide IT enabled services to the people.

D. Activity: Name some (minimum 5) Topic which are dealing with the IT Education, Learning Management System, Digital Communication, Healthcare, Working place. (try to paste or draw picture of some of the icons of IT Related Picture.) Give the heading of IT and ITes.

Sub: Maths

Factorise:

- $9X^2-16Y^2$.
- $81 - 16X^2$
- $2X^4-32$
- $3x^3-48x$
- $X-64x^3$
- $150-6X^2$
- $20x^2-45$
- a^2-b^2-a-b
- $a^2-b^2 + 2bc-c^2$
- $a^2 + 2ab + b^2-9c^2$
- $(\frac{25}{4}x2-\frac{1}{9}y)$
- $5 - 20x^2$
- $3a^3b-243ab^3$
- $27a^2-48b^2$
- $8ab^2-18a^3$
- $2-50x^2$
- $(3a + 5b)^2-4c^2$
- $4a^2-9b^2-2a-3b$
- $4a^2 - 4b^2 + 4a +1$
- $108a^2-3(b-c)^2$
- $x^2 - y^2 + 6y - 9$
- $9a^2 + 3a-8b-64b^2$
- X^8-1
- $81x^4-y^4$
- $4x^2-9y^2-2x-3y$
- $16x^4- 1$
- X^4-625

- Show that (p - 1) is a factor of (p^{10} -1) and also of (p^{11} -1).
- Find the value of *k* for which (x -1) is a factor of ($2x^3 + 9x^2 + x + fc$).
- Find the value of a for which (x - 4) is a factor of ($2x^3 - 3x^2 - 18x + a$).
- Find the value of a for which (x + 1) is a factor of ($ax^3 + x^2 - 2x + 4a - 9$).
- Find the value of a for which (x + 2a)is a factor of ($x^5 - 4a^2x^3 + 2x + 2a + 3$).
- Find the value of m for which (2x-l) is a factor of ($8x^4 + 4x^3 - 16x^2 + 10x + m$).
- Find the value of *a* for which the polynomial ($x^4 - x^3 - 11x^2 - x + a$) is divisible by (x + 3).
- Without actual division, show that ($x^3 - 3x^2 - 13x + 15$) is exactly divisible by ($x^2 + 2x - 3$).
- If ($x^3 + ax^2 + bx + 6$) has (x - 2) as a factor and leaves a remainder 3 when divided by (x - 3), find the values of a and *b*.
- Find the values of a and *b* so that the polynomial ($x^3 - 10x^2 + ax + b$) is exactly divisible by (x -1) as well as (x - 2).