

Class IX
Subject- Science
Holiday Homework
2019-20
Subject- Chemistry

1. Write activity 1.13 and draw inference from that activity. Give a suitable diagram for this activity.
2. Explain the activity of latent heat of fusion with a suitable diagram.
3. Explain the activity for latent heat of vaporisation with a suitable diagram.
4. Sponge is a solid still we are able to compress it. Why?
5. What produces more severe burns- Steam or Boiling Water? Give reason

Subject- Biology

1. Draw a well labelled diagram of plant cell and Animal cell. Give the differences between plant cell and animal cell in tabular form.
2. Draw a well labelled diagram of prokaryotic cell. Give difference between prokaryotic cell and eukaryotic cell in tabular form.
3. What is plasmolysis? Explain
4. Write one function each of
 - a) Mitochondria
 - B) Golgi Apparatus
 - c) Plastids
 - d) Nucleus
 - e) Endoplasmic Reticulum
 - f) Lysosomes
 - g) Ribosomes
5. What do you understand by the term Hypertonic and hypotonic solution?

Subject- Physics

1. Derive the relation between u, v, a and t by graphical method.
2. Derive second equation of motion by graphical method.
3. Differentiate between
 - a) Speed and Velocity
 - b) Distance and Displacement
4. Derive position- velocity relation by graphical method.
5. A train starting from rest attains a velocity of 72 km/hr in 5 minutes. Assuming that the acceleration is uniform find
 - a) The acceleration
 - b) The distance travelled by the train

Subject-Social Science

1. Prepare a project file on the following topics-
Social Issues-

- 1) Women empowerment (Section- A,B,C,D)
- 2) Hygiene and sanitation (Section E,F,G,H)

Note- Topic should be explained under the following headings

- a) Cover page
- b) Acknowledgment
- c) Index
- d) Content-
 - I) Introduction
 - II) Objectives
 - III) Need
 - IV) Role towards society
 - V) Steps for improvement
- e) Conclusion
- f) Bibliography

SUBJECT ENGLISH

Q.1 Read the passage given below and answer the questions that follow:

1. The introduction of films in the late nineteenth century was truly a revolution in the field of entertainment. Since then, many things have changed. From the silent era to now an era of dizzying realistic animation and sound effects, every aspect associated with filmmaking has witnessed a multitude of changes. There are some limitations a filmmaker has to observe while making a film which prevents a film from being an exact reflection of the society.
2. The first and the most important aspect that a filmmaker has to care for is that his or her film should be a commercially viable one. This simple requirement puts unlimited constraints on a filmmaker as he can only make films that he can sell to the common people who watch films for the sake of entertainment.
3. Sometimes unnecessary controversies are rigged by filmmakers to arouse interest and generate publicity for their films and a syrup Of sex and violence is poured unnecessarily onto the initial plotline to make a film more spicy for the people we refer to as "front row audience" in a cinema hall. Another thing that is required to make a film based on real or historical themes commercially successful is making some changes in the storyline itself.
4. Hence, the film ceases to be an exact reflection of a historical society. Take for example the controversy over the film Jodhaa Akbar. Even the film's director Ashutosh Gowariker has accepted that 70% of the film is not based on history. Now can a film that is 70% fiction be considered a reflection of any society of any era? Another good example of this would be the film Hotel Rwanda based on the Hutu-Tutsi conflict in Rwanda. The film has veered away from the mainly

autobiographical storyline at many places. Hence in the words of legendary Japanese filmmaker Akira Kurosawa, "In all my films, there's three or may be four minutes of real cinema."

1.1 Attempt any eight of the following questions on the basis of the passage you have read:

- (i) What was the great revolution in the field of entertainment in late 19th century?
- (ii) What is the first limitation of a filmmaker?
- (iii) What is the main aim of a filmmaker?
- (iv) What puts unlimited constraint on a filmmaker?
- (v) What do filmmakers do to arouse interest? .
- (vi) How does a filmmaker charm the front row audience?
- (vii) Why is a filmmaker forced to change the real or historicat-stery-line?-eiverairefrmYe:
- (viii) Who is Akira Kurosawa and what did he say about his films?
- (ix) Find the word in paragraph no.2 which means the same as 'necessity'

Q.2 Read the passage given below and answer the questions that follow:

1. The world's smallest dog, the Chihuahua or the Pocket Dog is barely 1 kg to 2 kg as an adult! The Chihuahua is named after a Mexican State, but its roots can be traced back to China. Today this breed is popular choice of the dog lovers world over and their popularity seems to be even increasing.
2. The main advantage of this breed is that they need no particular exercise. They are quite satisfied with their walks within their house. Being small, however, does not mean that they are dull, on the contrary they are sharp, alert animals, very strong in character. They are good guard dogs due to their strong vocal cords. They have an inherent curiosity that makes them want to know what goes on within the house.
3. For show purposes the maximum permissible weight is 0.9kg to 1.8 kg. Chihuahuas are of two types, the long coated and the smooth coated. The long coated ones have flat or slightly wavy coats. The smooth coated ones are soft textured and glossy in appearance.
4. They can be of any colour. Their heads are apple dome-shaped and in some animals, the frontal areas of the skull do not fuse! The nose is short and the ears are at an angle of 45 degrees to the head. The dogs are slightly longer than the tail and the tail is carried like a sickle that just touches the back. The body on the whole is compact and has a graceful appearance. Occasionally a tailless dog is born but tail cropping is not an accepted practice.
5. Compared to other pups, they require little care, and only the long-haired variety needs grooming. They tend to exercise themselves within the confine of the house. This makes them prone to have overgrown nails that need regular clipping. As far as their diet is concerned, they could be fussy and choosy eaters, but then almost all toy breeds are so! They are intelligent and learn easily.
6. They are very active within the house and literally are burglar alarms. They are good with children and are loyal and devoted to the family. On the whole, the Chihuahua is quite a pet! At just six inches, it is bundle of energy. Most people are surprised seeing these animals and the general awareness of this breed is still low. However, just one hurdle remains. Because this is a pocket dog, it may pinch a few pockets.

2.1 On the basis of your reading of the passage, answer any four of the following questions in About 30-40 word each:

- (i) Which is the most popular variety of dogs today?
- (ii) How much does the dog weigh?
- (iii) Besides the strength of character, what do these dogs possess?

- (iv) What makes them function as burglar alarms?
(v) How does inherent curiosity help the Chihuahuas?

2.2 On the basis of your reading of the passage, fill in any two of the following blanks with appropriate words/ phrase:

- (i) The Chihuahuas are always with their walks within the house.
(ii) The smooth coated Chihuahuas are..... in appearance.
(iii) With regard to food, the long haired variety of Chihuahuas are.....

2.3 Attempt any two of the following. Find out the words that mean the same as under:

- (i) 'Popular' (paragraph 1)
(ii) 'Inherent' (paragraph 2)
(iii) 'Compact' (paragraph 4)

3. Today while going to your school you happened to get caught in a massive traffic jam due to VIP movement. You also saw that an ambulance with a critical patient was also halted. Write a diary entry in 120-150 words expressing your feeling.
4. Write a short story in about 200-250 words with the class given in the box below, give a suitable title to the story.

“My grandmother was alone at home. Suddenly she smells gas leaking in the kitchen.

She.....”

5. Compare and contrast the futuristic schools in the story the fun they had with the school today. Do you think the futuristic schools will be a reality?
6. Compare the attitude of the child before and after his separation from his parents. The company of parents is more important than the things of pleasure. Do you agree?
7. Revise all the work done in notebook.

Note: Do holiday homework in a separate note book.

Mathematics

1. Using paper cutting derive the identity $(a+b)^2=a^2+b^2+2ab$.
2. Using paper cutting and pasting method prove that the exterior angle of a triangle is equal to the sum of two opposite angles.
3. Using paper cutting and pasting method prove that any two congruence criterion for a triangle.
4. Learn and write all formulas and identities of unit 1 of prescribed syllabus.

(Note: Do all above activities in activity file.)

विषय—संस्कृतम्

1. 'शुचिः पर्यावरणं भवेत्' इति विषयं स्वीकृत्य हिन्दीभाषायां दश लघु वाक्यानि लिखित्वा संस्कृतभाषायां वाक्यानाम् अनुवादं क्रियताम् ।
2. जूनमासस्य समाचारपत्रात् एकं चित्रं स्वीकृत्य (A-4 शीट) पत्रे संश्लेष्य पंचवाक्येषु चिर्वर्णनं क्रियताम्
3. 'प्रदूषण निवारणाय' मित्रं प्रति एकं पत्रं लिखत ।

अथवा

शैक्षणिक—भ्रमणाय पितुः आज्ञां प्राप्तचितुं पितरं प्रति पत्रं लिख्यताम् ।

विषय—हिन्दी

1. कवि ने किन—किन उदाहरणों द्वारा ईश्वर से भक्त की एकात्मकता को प्रमाणित किया है?
2. 'शोक मनाने का अधिकार समाज में किसे प्राप्त है एवं किसे नहीं? दुख का अधिकार पाठ के आधार पर सिद्ध कीजिए।
3. लेखिका ने चोटी पर अपनी कृतज्ञता किस प्रकार व्यक्त की?
4. कवि ने सोने और सुहागे की बात किस सम्बन्ध के कही है और क्यों?
5. कवि ने ईश्वर की किन—किन विशेषताओं का वर्णन किया है?
6. किस प्रकार कहा जा सकता है कि बचेन्द्री पाल में एक अच्छे पर्वतारोही के गुण विद्यमान थे?