

DAV PUBLIC SCHOOL, BEHROR

SUMMER VACATION HOLIDAY HOMEWORK

(Session- 2024-25)

CLASS-IX

Subject- Computer Applications (165)

- Q.1 Explain Application of Computer.
- Q.2 Explain different type of ROM.
- Q.3 Write the uses of Function keys.
- Q.4 Write and learn the uses of shortcut keys.
- Q.5 Write and learn about different types of output devices.
- Q.6 Write and learn about role of Operating System.
- Q.7 Write the uses of ALU.
- Q.8 Write and learn different types of storage unit.
- Q.9 Write and learn difference between RAM and ROM.
- Q.10 Write the name of various types of input devices.

Sub.Hindustani Music(Vocal)

नोट:सभी प्रश्नों को अच्छे से कॉपी में लिखें व याद करें।

- 1.संगीत,ध्वनि, नाद,श्रुति,स्वर, ससक, अलंकार, थाट और जाती के बारे में लिखें व याद करें।
- 2.लय,ताल,मात्रा,सम,ताली,खाली,विभाग व आवर्तन के बारे में विस्तार से लिखें व याद करें।

Subject- Science (086)

(Chemistry)

- Q.1 Why are light and sound not considered as matter?
- Q.2 A rubber band is a solid, but it can change its shape. Why?
- Q.3 Define i) Melting point ii) Diffusion iii) Humidity iv) Plasma
v) Brownian movement v) Tyndall Effect
vi) Emulsion vii) Aerosols viii) Solubility
- Q.4 Which property of gas is used in supplying oxygen cylinders to Hospitals?
- Q.5 Is it true to say that fluorescent tube contains Plasma? Explain.
- Q.6 A balloon when kept in sun, burst after sometime. Why?
- Q.7 Why does the temperature remains constant during the change of state for any substance?
- Q.8 Name the two categories of pure substance.
- Q.9 Nitrogen is considered as element. Why?
- Q.10 What makes water a universal solvent?

Q.12 While diluting a solution of salt in water, a student by mistake added Acetone (B.Point= 56°C). What technique can be employed to get back to acetone?

Q.14 Read about 5 scientist and their contribution in chemistry and write at least 50 words on each scientist.

- i) Solid, Liquid and Gas
- ii) Homogeneous and Heterogeneous
- iii) Compound and Mixture
- iv) Solution, Colloidal solution and Suspension

- 1.A car increases its speed from 20 km/h to 50 km/h in 10 seconds. What is it Acceleration?
- 2.A ship is moving at a speed of 56km/h. One second later, it is moving at 58km/h. What is its acceleration?
- 3.A scooter acquires a velocity of 36km/h in 10 seconds just after the start. Calculate the acceleration of the scoter.
- 4.A racing car has uniform acceleration of 4m/s². What distance will it cover in 10 Seconds after start?
- 5.A car acquires a velocity of 72km/h in 10 seconds starting from rest.
Find (a) The Acceleration (b) The average velocity
(c) The distance travelled in this time.
- 6.A body is accelerating at a constant rate of 10m/s². If the body starts from rest, how much distance will it cover in 2 seconds?
- 7.An object undergoes an acceleration of 8m/s² Starting from rest. Find the distance travelled in 1 second.
- 8.A moving train is brought to rest within 20 seconds by applying brakes. Find the Initial velocity, if the retardation due to brakes is 2m/s².
9. A car accelerates uniformly from 18km/h to 36 km/h in 5 seconds.
Calculate (i) Acceleration and (ii) the distance covered by the car in that time.
- 10.A body starts to slide over a horizontal surface with an initial velocity of 0.5 m/s. Due to friction, its velocity decreases at the rate of 0.05 m/s. How much time will it take for the body to stop?
- 11.A train starting from the rest moves with a uniform acceleration of 0.2 m/s² for 5 Minutes. Calculate the speed acquired and the distance travelled in this time.
- 12.A bus was moving with a speed of 54 km/h. On applying brakes, it stopped in 8 Seconds. Calculate the acceleration and the distance travelled before stopping.

(Biology)

Learn and write the following questions:-

- 1: What are plastids? Name the different types of plastids found in plant cell.
- 2: What is plasma membrane made up of?
- 3: What did Robert Hooke observed first in cork cell?
- 4: Name the autonomous organelles in the cell.
- 5: What does protoplasm refer to?
- 6: Name two cells which keep changing their shape.
- 7: Name the smallest cell and the longest cell in human body.
- 8: Name 3 features seen/present in almost every cell.
- 9: What is diffusion?
- 10: What is osmosis? This takes place from high water concentration to low water concentration.
- 11: Write 5 botanical name of following plants:-
(Neem, Banyan tree, Banana, Bamboo and Mango)
- 12: Write 5 Zoological name of following animals:-
(Dog, Cat, Elephant, Deer and Tiger)

Subject – Social Studies

- Q1.Why 82°30'E has been selected as the Standard Meridian of India?
- Q2.Why is the difference b/w the durations of day and night hardly felt at Kanyakumari but not so in Kashmir?
- Q3.Area -wise which is the smallest and which is the largest state?
- Q4.Define the following –
 1. Doabs 2. Terai 3.Bhabar
- Q5. Which is the only active volcano in India? Elaborate.
- Q6.What was the currency of France during the french revolution and why was it discontinued?
- Q7.Explain french revolution in detail. (100-150 words).
- Q8."True democracy will come to this country only when no one goes hungry to bed".
Throw some light on this statement and answer the question.
- Q9."We are a very democratic family. Whenever a decision has to be taken, we all sit down and arrive at a consensus. My opinion matters as much as my father's." Explain the statement.
- Q10. Rights of citizens and limits on the power of the government are laid down in the constitution. Explain it.
- Q11.Why do we need a constitution?
- Q12.Explain the contribution of any two persons in detail, with reference to the freedom struggle.
- Q13.Explain fixed capital and working capital with suitable examples.

- Q14.Can you suggest some measures in the education system to mitigate the problem of the educated unemployed?
- Q15.Explain Human capital formation.
- Q16.What is Democracy?
- Q17.Explain factors of production.
- Q18.Differentiate b/w seasonal and disguised unemployment.
- Q19.Explain the role of education in human capital formation.
- Q20.Define the following –
- (1)Eastern and western ghats.
 - (2)Andaman and Nicobar islands.
- Q21.A landmass bounded by sea on three sides is called as.....
- Q22. Mountain ranges in the eastern part of India forming its boundary with Myanmar are collectively called.....
- Q23.The western coastal strip, south of Goa is referred to as.....
- Q24.The highest peak in the Eastern ghats is.....
- Q25.....is the administrative headquarters of Lakshadweep.
- Q26.Coral polyps are short – lived microscopic organisms, which live in.....
- Q27.The Western ghats and Eastern ghats mark the western and eastern edges of the.....
- Q28.The..... lake is the largest salt water lake in India.
- Q29..... In the Brahmaputra river is the largest inhabited riverine island in the world.
- Q30.The longitudinal valley lying b/w lesser himalayas and the Shiwaliks are known as.....
- Q31Name the groups of islands lying in the Arabian Sea.
- Q32.Name the countries which are larger than India.
- Q33.Which island countries are our southern neighbours?
- Q34.Which island group of India lies to its south – east?
- Q35.Which are the major physiographic divisions of India?
- Q36.Give an account of the northern plains of India.
- Q37.Find out the names of the states where highest peaks are located.
- Q38.How did France became a constitutional monarchy?
- Q39.How would you explain the rise of Napoleon?
- Q40.Describe the events of 14th July, 1789.

SUBJECT: Mathematics

1. Locate $\sqrt{2}, \sqrt{3}, \sqrt{5}$ on number line.
2. Represent $\sqrt{9.1}$ on number line.
3. Give two examples for each of terminating, non-terminating and non-terminating repeating decimals.
4. Find 3 rational numbers for each between two rational numbers
(i) 2 and 3 (ii) 4 and 5
5. Find five rational numbers between $\frac{1}{2}$ and $\frac{3}{4}$.
6. Express the following in the form of $\frac{p}{q}$, where p and q are integers and $q \neq 0$.
(i) $0.\bar{6}$ (ii) $0.4\bar{7}$
7. Classify the following numbers as rational or irrational. (i) $\sqrt{23}$, (ii) $\sqrt{225}$, (iii) 0.3796
(iv) 7.478478..... (v) 1.101001000100001.....
8. Rationalized the denominator of (i) $\frac{1}{\sqrt{2}}$.
9. Rationalized the denominator of $\frac{1}{2+\sqrt{3}}$.
10. Simplify each of the following
(i) $(3 + \sqrt{3})(2 + \sqrt{2})$ (ii) $(3 + \sqrt{3})(3 - \sqrt{3})$
(iii) $(\sqrt{5} + \sqrt{2})^2$ (iv) $(\sqrt{5} - \sqrt{2})(\sqrt{5} + \sqrt{2})$
11. Find: (i) $64^{1/2}$ (ii) $32^{1/5}$ (iii) $125^{1/3}$ (iv) $\frac{2^{2/3}}{2^{1/3}}$
12. Write the coefficient of X^2 in each of the following polynomials.
(i) $2+x^2+x$ (ii) $2-x^2+x^3$ (iii) $\frac{\pi}{2}x^2+x$
13. Frame 10 quadratic polynomials and factories by splitting the middle terms.
14. Frame 10 linear polynomials and find the zero of the polynomial.
15. Frame 5 cubic polynomials and divide by linear polynomial $x+1$ and list the reminders.
16. Draw the Cartesian plan and plot 10 coordinates on it.
17. Write a note on French Mathematician Rene Descartes. (In 100 words)
18. The cost of a notebook is twice the cost of a pen. Write a linear equation in two variables to represent this situation in statement.
19. Write and learn Euclid's axioms and postulates.
20. Find the value of k, if $x=2, y=1$ is a solution of the equation $2x+3y=k$.

Subject- English

1– Write a descriptive paragraph on ‘world book fair ‘

2– Read the line given below and complete the story in 200 words :

One day a dog found a piece of meat . He wanted to relish it without sharing with any other dog

3- Read the given lines and complete the story in 150 words :

Once there was an old man .He had four sons . They always quarrelled with one another

4. Complete the passage using the correct form of the verb (Only past tense)

A- I(think) my train(leave) at 11:30 .

B– But I.....(be) very disappointed when I
.....(arrive) at the station and(learn) that
it(already leave)

C – I(find) out later that the time -table I
.....(have)(be)

5— Complete the following sentences using the correct form of the verbs given in brackets..

A - poor fellow! I(consider) him to be extremely unlucky.

B— Research (show) that cycling is a good exercise.

C— My sister is a linguist . She(speak) six languages fluently.

D– Whyyou.....(not wear) your new dress ?

E-- We(always want) a house in the hills .

F— It(rain) quite heavily .you can't go out just yet.

G– I(know) him for most of my life.

H—the guests.....(arrive)?

I...she.....(drive) since the age of eighteen.

6— Change the following sentences from the active voice to the passive voice.

A– They feed the elephants at the zoo twice a day.

B— The prime minister will survey the tsunami affected areas.

C— The author has written a special edition for children.

D— The volunteers are helping the villagers rebuild their houses.

E— They have written letters appealing to the district administration for help.

F– Why did you do such a thing?

G— They were driving a brand new car.

H— He had finished the work by the time we reached.

I — The government is spending very little money on maintenance of roads.

J— Barbie had not forgotten the sugar -coated explosive.

7— Answer the following questions :

A– How can you say that the child was an obedient boy?

B— Do you think in the end? The child was reunited with his parents who ,according to you, had helped him?

C— When did the child realize that he was separated from his parents? What was his response?

D— How did Toto behave with Nana?

E— How can you say that Toto was not an ordinary animal?

F— From where did the grandfather buy Toto and for how much?

G— How will the poet enjoy his stay” night and day” at Innis free?

H— How does the poet miss the isle of Innisfree ?

I — Where shall the poet go and why?

J— How does the poet describe the falling rain in the poem “rain on the roof”?

K— What does the poet dream of?

L— ‘Practice to firm the body make the heart steadfast’ explain.

M— ‘Wind comes softly. ’Why does the poet want wind to come softly?

N— Where did the 2 roads diverge? What was the difficulty?

O— Do you think the poet is happy with his choice? Why /why not?

P— Write the theme of the poem”” the road not taken”.

Q— Explain “yellow wood.”

(From Beehive –Prose)

R— Why do you think Einstein’s personal life was not happy? According to you, what was the main reason for their unhappy married life? Do you think it is a common problem nowadays?

S— Why does the world remember Einstein a world citizen?

T— Do you think Kezia’s father was a bad father?Why /why not?

U— Why was kezia punished by her father ?

V— Music has no religion.How did Bismillah Khan’s Shenai prove it?Do you also think so?

W— What did Evelyn determine to do?

X — How did Evelyn inspire the deaf children?

Y – Why did Margie hate school?

Z— Would you like to be taught by a mechanical or a human teacher?, why?