



DAV Public School Cantt. Area, Gaya
Summer Vacation Homework
Session :- 2022 - 2023

CLASS- IX

SUBJECT- ENGLISH

1. Write a biosketch on Evelyn Glennie on the basis of the chapter sound of music (part 1). Also paste a picture of this renowned percussionist in the above mentioned biosketch.
2. Complete the Q/Ans.of all the chapters taught in the class in both the books (MOMENTS & BEEHIVE).
3. Go through the vocabulary of these chapters.
4. LEARN the forms of verb of 50 action words.
5. LEARN the names of authors and poets of all the chapters of BEEHIVE.

Note- Q.No. 1. must be done in the H.W. NOTE BOOK.

विषय-हिंदी

1. महात्मा कबीर न केवल एक संत थे बल्कि उन्होंने अपनी रचनाओं के द्वारा समाज - सुधारक के रूप में भी अपनी भूमिका निभाई; पाठ के आधार पर इस तथ्य को स्पष्ट करें।
2. "स्वतंत्रता सहज ही नहीं मिलती; इसके लिए हमें संघर्ष करना पड़ता है" 'दो बैलों की कथा' पाठ के आधार पर लिखें।

“विषय: :- संस्कृतम्”

1. वर्तमाने संस्कृत भाषायाः महत्वं प्रतिपादनीयम् ?
(वर्तमान में संस्कृत भाषा का क्या महत्व है ? लिखिए ।)
2. "स्वर्णकाकः" पाठस्य उचितोदाहरण द्वारा शिक्षां प्रतिपादयत् ।
("स्वर्णकाकः" पाठ के शिक्षा को उचित उदाहरण द्वारा स्पष्ट करें / लिखें ।)
3. "भारती वसन्त गीतिः" इत्यस्मिन् पाठे वर्णितम् प्रकृत्याः चित्रणम् कुरुत ।
(भारती वसन्तगीतिः पाठ में वर्णित प्रकृति का वर्णन करें ।)

Sub- Mathematics

- 1) Write history of π pie .
- 2) Represent $\sqrt{10}$ on the number line by using construct of the square root spiral.
- 3) Visualize 6.567567.....up to four decimal places.
- 4) Convert 3.2654654654.....in the form of Rational Number .
- 5) Factorise. $2x^3 - 5x^2 - 17x + 30$.
- 6) Factorise $X^3 + 15X^2 + 32X + 20$.

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Sub- Social Science

HISTORY:

- 'The French Revolution was a milestone in the democratic movements across the World.' In the context of this statement make a list of democratic ideas emerges from French Revolution.
- On a Political map of France locate the following places.
> Bordeaux, Nantes, Paris & Marseillaise

POLITICAL SCIENCE

- In spite of many arguments against democracy how can we say that democracy is the best form of Government.

ECONOMICS

- On which factors organisation of production depends upon? Differentiate between Fixed Capital and Working Capital.

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GEOGRAPHY

Q(1) Despite latitudinal and longitudinal of India is almost 30 degree, North to South extent appears larger compare to West to East. Why ?

Q(2) Write a note on the making of Suez Canal.

Q(3) Prove that how Indian Standard Time is 5.30hrs ahead of Greenwich Time?

Sub:- SCIENCE

SUB- PHY

1. Any change in the velocity of an object results in an acceleration: increasing speed (what people usually mean when they say acceleration), decreasing speed, or changing direction. Yes, that's right, a change in the direction of motion results in an acceleration even if the moving object neither speed up nor slowed down. That's because acceleration depends on the change in velocity and velocity is a vector quantity — one with both magnitude and direction. Thus, a falling apple accelerates, a car stopping at a traffic light accelerates, and the moon in orbit around the Earth accelerates. Acceleration occurs anytime an object's speed increases or decreases, or it changes direction.

1. Acceleration can be defined as rate of change of:

- a. displacement
- b. velocity

- c. momentum
- d. inertia

2. Acceleration is a vector quantity which indicates that its value:
 - a. can be positive, negative or zero
 - b. is always positive
 - c. is always negative
 - d. is zero
3. A falling apple accelerates:
 - a. negatively and uniformly
 - b. positively and uniformly
 - c. positively and non-uniformly
 - d. negatively and non-uniformly
4. Moon orbiting around the earth because of :
 - a. zero acceleration
 - b. centripetal acceleration
 - c. neutral acceleration
 - d. centrifugal acceleration
5. A car accelerates uniformly from 18 km/h to 36 km/h in 5 minutes. The acceleration is:
 - a. 5ms^{-2}
 - b. 1 km/s^2
 - c. 216 ms^{-2}
 - d. 216 km/h^2

Biology

1. How does fungi and bacteria can withstand much greater changes in the surrounding medium than animal cell?
2. Draw the animal and plant cell and write the function of different cytoplasmic organelles present in these cell.

Chemistry

1. What will be the state of water at
 - a. 100 degree Celsius
 - b. 250 degree Celsius
2. Write the method to liquify atmosphere gases.
3. How does the water kept in a earthen pot become cool during summer.

Subject :- Artificial intelligence (417)

1. Write down difference between human intelligence and machine intelligence
2. Write down the application area of artificial intelligence used in day to day life with examples.
3. Explain about software related to AI with examples.
