

KENDRIYA VIDYALAYA SIKAR

Home assignment for summer vacation

Subject – Mathematics

Class – IX

Q:1. The decimal expansion of an irrational number is

- (a) terminating (b) non-terminating repeating
(c) non-terminating non repeating (d) none of these

Q:2. The degree of the polynomial $5 - y^2 - y^3 + 2y^8$ is

- (a) 5 (b) 2
(c) 3 (d) 8

Q:3.

The number of rational numbers between $\sqrt{3}$ and $\sqrt{5}$ is

- (a) One (b) 3 (c) none (d) infinitely many

Q:4.

The value of $(3 + \sqrt{3})(3 - \sqrt{3})$ is:

- (a) 0 (b) 6 (c) 9 (d) 3

Q: 5

The value of $32^{\frac{1}{5}}$ is :

- (a) 16 (b) 160 (c) 2 (d) 18

Q:6. Rationalise the denominator of $\frac{1}{2-\sqrt{3}}$

Q:7

Evaluate the following expressions:

(i) $\left(\frac{625}{81}\right)^{-\frac{1}{4}}$ (ii) $27^{\frac{2}{3}} \times 27^{\frac{1}{3}} \times 27^{-\frac{4}{3}}$ (iii) $(6.25)^{\frac{3}{2}}$

Q:8

Visualize the representation of $5.\overline{37}$ using successive magnification

Q: 9. Find two irrational numbers between $\sqrt{2}$ and $\sqrt{3}$.

Q: 10. Show that $0.666\dots$ can be expressed in the form of $\frac{p}{q}$, where p and q are integers and $q \neq 0$.

Q: 11

Simplify the following:

(i) $(4\sqrt{3} - 2\sqrt{2})(3\sqrt{2} + 4\sqrt{3})$

(ii) $(2 + \sqrt{3})(3 + \sqrt{5})$

(iii) $(\sqrt{3} + \sqrt{2})^2$

Q: 12

Represent the real number $\sqrt{2}, \sqrt{3}, \sqrt{5}$ on a single number line.

Q: 13

If a and b are rational numbers and $\frac{4+3\sqrt{5}}{4-3\sqrt{5}} = a + b\sqrt{5}$, find the values of a and b.

Q:14

If $x = \frac{2-\sqrt{5}}{2+\sqrt{5}}$ and $y = \frac{2+\sqrt{5}}{2-\sqrt{5}}$, find the value of $x^2 - y^2$.

Q:15. If $a = 6 - \sqrt{35}$ find the value of $a^2 + 1/a^2$

Q:16. Locate $\sqrt{3}$ on the number line .

Q:17

Simplify: $\frac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}}$

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HOLIDAYHOMEWORK

CLASS IX A and B, ENGLISH

Q. 1 write down biography of any poet/author/famous personality.

Q. 2 Write 3 pictorial stories in order to show your creativity.

Q. 3 Write 2 theme based movie reviews on films based on any social/patriotic/science fiction/ cartoon etc.

Q. 4 Write 3 diary entries on the topics of your choice.

Q. 5 Write 3 articles on the topics of your choice.

केन्द्रीय विद्यालय सीकर

ग्रीष्मकालीन अवकाश गृहकार्य (कक्षा – नवमी अ&ब)

विषय : हिन्दी सत्र : 2021-22

प्रश्न:1. 'भ्रष्टाचार: कारण और निवारण' एवं 'विज्ञान वरदान या अभिशाप' विषयों पर 150 से 250 शब्दों तक निबन्ध लिखो।

प्रश्न:2. (क) विद्यालय में भौतिक सुविधाओं की कमी का उल्लेख करते हुए उनकी पूर्ति हेतु अपने विद्यालय के प्राचार्य महोदय को पत्र लिखिए।

(ख) स्वयं को नगरपालिका सुभाष कालोनी (अम्बाला) के वार्ड 14 का निवासी मानते हुए स्वास्थ्य अधिकारी को वार्ड की अस्वच्छता की शोचनीय स्थिति से अवगत कराते हुए सफाई की समुचित व्यवस्था कराने के लिए पत्र लिखिए।

प्रश्न:3. अपने विद्यालय के वार्षिक उत्सव पर एक प्रतिवेदन (रिपोर्ट) तैयार कीजिए।

प्रश्न:4. 'ल्हासा की ओर , साँवले सपनों की याद और इस जल प्रलय में' पाठ ध्यानपूर्वक पढ़ो और पाठों का सारांश लिखो।

प्रश्न:5. प्रसिद्ध व्यक्तियों द्वारा कहे गए 10 सुविचार लिखिए।

प्रश्न:6. अर्थ के आधार पर वाक्य के कितने भेद होते हैं परिभाषा सहित लिखो।

प्रश्न:7. निम्नलिखित मुहावरों के अर्थ लिखकर वाक्यों में प्रयोग करो –

(अंधे की लकड़ी , नाक में दम करना , जहर का घूँट पीना , आँखों में धूल झोंकना , अंग-अंग ढीला होना , हाथ बँटाना , जान पर खेलना आदि)

विषयाध्यापक

सन्दीप कुमार (टी.जी.टी. हिन्दी)

KENDRIYA VIDYALAYA SIKAR

SUMMER HOLIDAY HOME WORK

SUBJECT-SOCIAL SCIENCE

Class IX

Question bank: -

1. Who introduced reign of terror and where?
2. What was 'sceptre'?
3. A triangle slave trade started among_____?
4. When did women in France won the right to vote in_____?
5. Whom proposed the social contract theory?
6. What is guillotine?
7. What was the estates general?

(three marks questions)

8. How was the French organized before the revolution of 1789?
9. What were the main ideas behind the French revolution?
10. Write some main features of the French constitutions of 1791?

(five marks questions)

11. Explain the achievements of Napoleon Bonaparte in France?
12. Describe the legacy of the French revolution for the people of the world?

Geography

1. Which is the southernmost point of India?
2. Which is the southernmost tip of main land of India?
3. Which is the area wise largest state of India?
4. Which is the area wise smallest state of India?

5. What is the length of India coast line?

(three marks questions)

6. Why is the difference between the duration of day and night hardly felt at Kanyakumari but not so in Kashmir?

7. Explain why Ahmadabad and Kolkata are able to see the moon sun exactly over head in a year but not Delhi?

8. Why is $82^{\circ} 32'E$ taken as the India standard time?

(five marks questions)

9. The why is India said to enjoy a strategic position with reference to the the International trade route?

10. When sun rise in Arunachal Pradesh it is still night in Gujarat give reasons?

Economics

1. What are the main factors of production?

2. Name two crops that grow in the rainy season?

3. What is multiple cropping?

4. What is mean by the working capital?

5. Write the main features of the green revolution?

6. Differentiate between fixed capital and working capital.

7. What are the ill effects of the green revolution?

8. What are the features of traditional methods of farming?

9. What are the main reasons to grow 3 different crops in palampur?

Civics

1. Democracy comes from which Greek word?

2. Who said these words' democracy is the rule of, for the people and by the people"?

3. Name the country where women are not allowed to take part in the elections?

4. Name the ruler who had established dictatorship in Germany?

5. What does referendum mean?

6. Name a country which have multiparty system?

(three marks questions)

7. Why is democracy considered the best form of government?
8. write any five features of democracy?
9. "Democracy in enhances the dignity of citizens? Explain.

- Map work-:

- 1- French revolution

- Bordeaux
- Paris
- Nantes
- Marseilles

- File on disaster management or covid-19 pandemic

- Introduction to disaster management
- Common hazards (prevention and mitigations)
- Man-made disasters (nuclear, biological and chemical)
- Community based disaster management

- Points -:

- Role of Govt./ Non-Govt. functionaries in your locality in disaster management
- Generating awareness on disaster management
- Preparation of models of disaster resilient structure
- Pocket guide on first-aid
- Institutional case study on disaster response
- Communication facilities for disaster management
- Preparation of disaster contingency plane

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HOLIDAY HOMEWORK FOR SUMMER BREAK 2021-22

SUBJECT SCIENCE. CLASS IX SUBJECT TEACHER MOHANLATA B.

Q.1 Make a diagram gallery of following diagrams – This is art integrated project and must do it in a artistic and informative way.

a Animal cell

B plant cell

C prokaryotic cell

D mitochondria

E Golgi apparatus and endoplasmic reticulum

Q.2 Make a list of immunity boosting food easily accessible in our habitat.

Q.3 make a list of traditional food habits of Rajasthan and their significance. For example dal, bati ,churma, rabdi with different variety, varoius type of laddus, variety of lassi, kadha etc

Q. 4 Learn and write the elements of atomic number 1 to 18 given in chapter 4.

Q.5 A link of activity is given here you must do this activity at home and you may make documentry while doing this activity.

https://youtu.be/_mMnbO31g3U

Use this link go through the activity and do it carefully.

STAY AT HOME , STAY SAFE – BE STRONG