

NAME- _____

Date of submission -4th JUNE

SUBJECT-MATHS

ASSIGNMENT-2

A. Who was Euclid? And what is Euclid's division lemma? Explain with minimum 5 examples?

B. PRACTICE QUESTIONS

1. Find the roots of quadratic equations by factorisation:

(i) $\sqrt{2}x^2 + 7x + 5\sqrt{2} = 0$

(ii) $100x^2 - 20x + 1 = 0$

2. Find two consecutive positive integers, sum of whose squares is 365.

3. Find the roots of the following quadratic equations, if they exist, by the method of completing the square:

(i) $2x^2 - 7x + 3 = 0$

(ii) $2x^2 + x - 4 = 0$

4. The diagonal of a rectangular field is 60 metres more than the shorter side. If the longer side is 30 metres more than the shorter side, find the sides of the field.

5. Solve the quadratic equation $2x^2 - 7x + 3 = 0$ by using quadratic formula.

6. Sum of the areas of two squares is 468 m^2 . If the difference of their perimeters is 24 m, find the sides of the two squares.

7. Find the values of k for each of the following quadratic equations, so that they have two equal roots.

(i) $2x^2 + kx + 3 = 0$

(ii) $kx(x - 2) + 6 = 0$

8. Is it possible to design a rectangular park of perimeter 80 and area 400 sq.m. ? If so find its length and breadth.

9. Find the discriminant of the equation $3x^2 - 2x + 1/3 = 0$ and hence find the nature of its roots. Find them, if they are real.

10. A motor boat whose speed is 18 km/h in still water takes 1 hour more to go 24 km upstream than to return downstream to the same spot. Find the speed of the stream.

ASSIGNMENT-2

SCIENCE

NAME:

Date of Submission: June 4 2021

Q. I Choose the correct option

- $\text{Na} + \text{H}_2\text{O} \longrightarrow \text{NaOH} + \text{H}_2$ is a:
a. word equation
b. balanced chemical equation
c. skeletal equation
d. all the above
- Heat is evolved in
a. endothermic reaction
b. exothermic reaction
c. isothermic reaction
d. none of these
- A substance is reduced when it:
a. combines with oxygen
b. combines with hydrogen
c. gives out hydrogen
d. all the above
- Reaction of quick lime with water is:
a. displacement reaction
b. combination reaction
c. decomposition reaction
d. redox reaction
- For the decomposition of silver bromide energy is required in the form of:
a. electricity
b. heat
c. light
d. all the above
- Electrolysis of water is a decomposition reaction. The mole ratio of hydrogen and oxygen gases liberated during electrolysis of water is:
a. 1:1
b. 2:1
c. 4:1
d. 1:2
- $\text{ZnO} + \text{C} \longrightarrow \text{CO} + \text{Zn}$, which statement is correct about the reaction:
a. ZnO is oxidized
b. ZnO is reduced
c. C is reduced
d. all the above
- In the reaction, $\text{MnO}_2 + 4 \text{HCl} \longrightarrow \text{MnCl}_2 + 2 \text{H}_2\text{O} + \text{Cl}_2$:
a. HCl is oxidized
b. MnO_2 is oxidized
c. HCl is reduced
d. none of the above

SUBJECT: SOCIAL SCIENCE (HISTORY)

Assignment- 2

Date of Submission:- 4TH JUNE

The Rise of Nationalism in Europe

1. Choose the correct nationality of the artist Frederic Sorrieu who visualised in his painting a society made up of Democratic and Social Republic.
 - (a) German
 - (b) Swiss
 - (c) French
 - (d) American

2. 'Nationalism', which emerged as a force in the late 19th century, means
 - (a) strong devotion for one's own country and its history and culture.
 - (b) strong devotion for one's own country without appreciation for other nations.
 - (c) strong love for one's own country and hatred for others.
 - (d) equally strong devotion for all the countries of the world.

3. Pick out the correct definition to define the term 'Plebiscite'.
 - (a) Plebiscite is a direct vote by which only the female members of a region are asked to accept or reject a proposal.
 - (b) Plebiscite is a direct vote by the female members of a matriarchal system to accept or reject a proposal.
 - (c) Plebiscite is a direct vote by only a chosen few from the total population of a particular region to accept or reject a proposal.
 - (d) Plebiscite is a direct vote by which all the citizens of a region are asked to accept or reject a proposal.

4. Ernst Renan believed that the existence of nations is a necessity because
 - (a) it ensures protection to all inhabitants.
 - (b) it ensures liberty to all inhabitant citizens.
 - (c) it ensures Parliamentary form of government to its inhabitants.
 - (d) it ensures jobs and good health to all its inhabitants.

5. Which of the following countries did not attend the Congress of Vienna?
 - (a) Britain
 - (b) Russia
 - (c) Prussia
 - (d) Switzerland

6. The first great revolution which gave the clear idea of nationalism with its core words: 'Liberty, Equality and Fraternity' was:
 - (a) The Russian Revolution
 - (b) The French Revolution
 - (c) The American Revolution
 - (d) India's First War of Independence

7. The French revolutionaries declared that the mission and destiny of the French nation was:
 - (a) to conquer the people of Europe.
 - (b) to liberate the people of Europe from despotism.
 - (c) to strengthen absolute monarchies in all the countries of Europe.
 - (d) to propagate the ideals of liberty, equality, and fraternity in every part of the world.

8. The Civil Code of 1804 in France is usually known as:
 - (a) The French Revolutionary Code
 - (b) Napoleonic Code
 - (c) European Imperial Code
 - (d) The French Civil Code

9. The Napoleonic Code was exported to which of the following regions?
 - (a) England
 - (b) Spain
 - (c) Regions under French control
 - (d) Poland

10. Which of the following is not a feature or belief of 'Conservatism'?
 - (a) Conservatives believe in established, traditional institutions of state and policy.
 - (b) Conservatives stressed the importance of tradition and preferred gradual development to quick change.
 - (c) Conservatives proposed to return to the society of pre-revolutionary days and were against the ideas of modernisation to strengthen monarchy.
 - (d) Conservatives believed in the monarchy, church, and other social hierarchies.

11. Name the states offering homage to the Statue of Liberty.

12. Explain any four provisions of the Napoleon Civil Code of 1804.

13. Describe any three steps taken by the French revolutionaries to create a sense of collective identity among the French people.

14. Examine the role of women in nationalist struggles of Europe.

15. Why were the years of 1830s of great hardship in Europe? Explain any five reasons.

विषय-हिंदी

कार्य पत्रिका -2

जमा करने की तिथि -4 जून

1. बड़े भाई साहब का स्वभाव कैसा था ?
2. बड़े भाई साहब को किस चीज़ का जन्मसिद्ध अधिकार था ?
3. बड़े भाई साहब अपने मस्तिष्क को विश्राम देने के लिए क्या करते थे ?
4. निराशा के क्षणों में लेखक क्या सोचता था ?
5. लेखक को बड़े भाई साहब पर दया क्यों आती थी ?
6. कथा नायक की रूचि किन कार्यों में थी ?
7. दूसरी बार पास होने पर छोटे भाई के व्यवहार में क्या परिवर्तन आया ?
8. बड़े भाई को अपने मन की इच्छाएँ क्यों दबानी पड़ती थीं ?
9. बड़े भाई साहब के अनुसार जीवन की समझ कैसे आती है ?
10. बड़े भाई साहब कहानी में आधुनिक शिक्षा प्रणाली की खामियों को दर्शाया गया है। शिक्षा में किन चीज़ों को महत्व देना चाहिए? बताइए।

संस्कृत

- क) पढाए गए पाँचों अध्यायों के शब्दार्थों से को अर्थ सहित याद कीजिए।
- ख) श्लोक पर आधारित अध्याय से श्लोको को अर्थ सहित याद कीजिए।
- ग) पढाए गए संस्कृत अध्यायो को बार-बार पढकर व समझकर बुद्धिकौशल को बढाएँ।

प्रोजेक्ट कार्य

- अरुणाचल प्रदेश व मेघालय के खान-पान पहनावा,उत्सव और प्राकृतिक सुंदरता को दर्शाते हुए एक पी.पी.टी. बनाए।

ENGLISH

Assignment 2 :

Date of submission -4th JUNE

To be done in the English Language Note book.

1. Tourism being one of the biggest and fastest- growing industries globally, affects the economic, socio-cultural, environmental and educational resources of nations. Improving tourism industry in India would thus lead to national development in many spheres. As Ankit/ Ankita, write a letter to the Editor of The Times of India expressing your views on the same.
2. You are Mr. Malik, the coordinator of the ABC Public School. Write a letter to place a bulk order for school uniform to M/S Sinha Garments.
3. You are Somita Roy, the librarian of ABC Public School, New Delhi. Write a letter to the Unique Book Co., New Delhi, complaining about the poor quality of books supplied to your library.