

- ① Differentiate between Distance and Displacement.
- ② What do you understand by Uniform & Non-uniform motion?
- ③ Given the data between distance & time. Plot (Pg. no. 100) a graph between distance and time and Table B.1 so, which represents uniform & non-uniform motion.
- ④ Under what conditions is the magnitude of average velocity of an object equal to its average speed.
- ⑤ Usha swims in 30m long pool. She covers 180m in 1 minute by swimming from one end to the other and back along the same straight path.
- ⑥ Find the average speed and average velocity of Usha.
- ⑦ An athlete completes one round of a circular track of diameter 200m in 40 seconds. What will be the distance covered and displacement at end of 2 minutes 20 seconds.
- ⑧ Joseph jogs from one end A to other end B of a straight 300m road in 2 minutes 30 seconds and then turn around and jogs 100m back to point C in another 1 minute. What are Joseph's average speeds and velocities in jogging (a) from A to B (b) from A to C.
- ⑧ A bus decreases its speed from 80 km/h to 60 km/h in 5 sec. Find the acceleration of the bus.

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Class - IX - A, Subj - Eng.

- Q.N.1 Write helping verbs and main verb of all tenses with five examples each on a chart paper. These sentences should be positive, negative and interrogative.
- Q.N.2. You are Amrita/Himanshu reads in class IX. You have come to know the lesson⁶ 'The Lost Child'. Write an article about 150 to 200 words. Describe the feeling and emotion of the lost child.
- Q.N.3. Differentiate between the school of present and that of 2157. Which one of them is better and why?

- When French Revolution begun?
- What was the old regime?
- What were Tithes and Tallie?
- Why was the Bastille hated by all?
- Who was the king of France at the time of French Revolution?
- Why was the Bastille prison attacked?
- Mention the division of French society.
- Why Louis-XVI found an empty treasury?
- Which estate enjoyed the feudal privileges? What were the feudal privileges?
- What were the conditions of 18th century French peasants?
- Which social group emerged in that period?
- Which form of government was proposed by Rousseau?
- Mention the name of philosophers and their books.
- Who were Mirabeau and Abbeysays?
- Define Chateaux.
- What was the estates general?
- When did the National Assembly completed the drafting of constitution?
- What made France a "Constitutional Monarchy"?
- Describe the events that took place on 14th July 1789 in France.
- Describe the division of French society before French Revolution.
- Which three causes led to the 'subsistence crisis' in France during old Regime?
- Describe the middle class in 3 points.
- How was National Assembly recognised and how did it start exercising its powers?

23. Describe how the new form of monarchy worked practice in France.
24. Who were "Active and Passive" citizens?
25. Discuss the main causes of French Revolution.
26. Explain the incident, led to "Outbreak of French Revolution."
27. How did philosophers influence the thinking of people of France?
28. Explain the features of Constitution of France drafted in 1791.

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Holiday H.W. (2019-20)

Class - IX (A)

Subject - Biology

- ①. Make a model of a plant cell or animal cell.
- ②. Activity - Study the process of endosmosis and exosmosis in raisins and define hypotonic, hypertonic & isotonic solution.
- ③ (i). Draw & label structure of a nucleus & write its function.
(ii). Why lysosomes are known as suicide bags
(iii). Why plasma-membrane is known as semi-permeable-membrane?
(iv). Differentiate between —
 (a) Diffusion & osmosis (b) Eukaryotic & prokaryotic cells

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Sh. Sh.
23-4-19

Holiday Home-work

2019-2020

Class- IX-A - Subject- maths

1- Express $1.\bar{5} + 2.\bar{13}$ in form of P/Q

2- Express in the form of P/Q

(i) $0.49\bar{5}$ (ii) $6.\bar{79}$ (iii) $0.\bar{689}$ (iv) $0.37\bar{9}$

3. visualise the following number on number line

(a) 3.4853 (b) 6.12798 (c) 7.68215

4- Represent $\sqrt{11}$ on number line by spiral method

5- Represent $\sqrt{7.3}$ on number line by Geometrically.

6- Represent $5 + \sqrt{3}$ on number line

7- Represent $3 - \sqrt{2}$ on number line

8- simplify: (a) $-\sqrt{7+2\sqrt{10}}$ (b) $\sqrt{7+2\sqrt{10}}$

(c) $\sqrt{5+2\sqrt{6}}$ (d) $\sqrt{8+2\sqrt{7}}$

9. Rationalise the denominator of the following

(a) $\frac{6+4\sqrt{3}}{6-4\sqrt{3}}$

(b) $\frac{3\sqrt{2}+2\sqrt{3}}{3\sqrt{2}-2\sqrt{3}}$

(c) $\frac{4\sqrt{5}-2\sqrt{2}}{4\sqrt{5}+2\sqrt{2}}$

10. Find 110 Rational number between $\frac{5}{7}$ and $\frac{3}{2}$

11- simplify: (a) $\sqrt{2} \times \sqrt[3]{3}$ (b) $\sqrt[3]{4} \times \sqrt{5}$ (c) $\sqrt{2} \times \sqrt[3]{8}$

12. Arrange in descending order

(a) $\sqrt[3]{5}$, $\sqrt[4]{9}$, $\sqrt[6]{126}$ (b) $\sqrt[3]{7}$, $\sqrt[4]{11}$, $\sqrt[6]{50}$

13. Simplify: $\sqrt[4]{81} - 8\sqrt[3]{216} + 15\sqrt{32} + \sqrt{225}$

14. Prove that: $\frac{1}{3-\sqrt{8}} - \frac{1}{\sqrt{8}-5} + \frac{1}{\sqrt{7}-5} - \frac{1}{\sqrt{6}-5} + \frac{1}{\sqrt{5}-2} = 5$

15. $\frac{7+\sqrt{3}}{7-\sqrt{3}} - \frac{7-\sqrt{3}}{7+\sqrt{3}} = a+b\sqrt{3}$, find the value of a & b

16. if $a = 2 + \sqrt{3}$, then find the value of $(a + \frac{1}{a})$, $(a - \frac{1}{a})^2$, $(a - \frac{1}{a})$, $(a + \frac{1}{a})^2$, $(a^2 - \frac{1}{a^2})$, $(a^2 + \frac{1}{a^2})$

17. if $4^x = 7^y = 11^z$ then prove that $\frac{2}{x} + \frac{1}{y} = \frac{1}{z}$

18.
$$\frac{2^{30} + 2^{29} + 2^{28}}{2^{31} + 2^{30} + 2^{29}} = \frac{7}{9}$$

19.
$$\left(\frac{x^{92}}{x^{62}} \right)^{\frac{1}{9+5}} \left(\frac{x^{52}}{x^{42}} \right)^{\frac{1}{6+4}} \left(\frac{x^{42}}{x^{92}} \right)^{\frac{1}{4+9}} = 1 \text{ Prove.}$$

20. if $z = 0.064$ find the value of $\left(\frac{1}{z} \right)^{\frac{1}{3}}$


23/04/19