

FUTURE READY QUESTIONS

Competency Based Assessment August, 2025

Class:9

Sub: English

Competency: *Identifies details, characters, main idea and sequence of ideas and events while reading*

Read the following passage and answer the questions.

In the 16th century, an age of great marine and terrestrial exploration, Ferdinand Magellan led the first expedition to sail around the world. As a young Portuguese noble, he served the king of Portugal, but he became involved in the quagmire of political intrigue at court and lost the king's favour. After he was dismissed from service by the king of Portugal, he offered to serve the future Emperor Charles V of Spain.

A papal decree of 1493 had assigned all land in the New World west of 50° W longitude to Spain and all the land east of that line to Portugal. Magellan offered to prove that the East Indies fell under Spanish authority. On September 20, 1519, Magellan set sail from Spain with five ships. More than a year later, one of these ships was exploring the topography of South America in search of a water route across the continent. This ship sank, but the remaining four ships searched along the southern peninsula of South America. Finally, they found the passage they sought near 50° S latitude. Magellan named this passage the Strait of All Saints, but today it is known as the Strait of Magellan.

- Q1.** Who led the first expedition to sail around the world?
- Q2.** Why did Magellan want to work under future Emperor of Spain?
- Q3.** What did Magellan want to show?
- Q4.** Four ships searched along the southern peninsula of South America. Why?
- Q5.** What was the Strait of Magellan named before?

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Sub: Mathematics

10x2=20

Competency: Uses algorithms to multiply and divide fractions/decimals.

1. State whether the following statements are true or false. Give the reason for your answer.

a) $\frac{2}{5} - \frac{2}{5} = 0$

b) $\frac{3}{4} \div \frac{3}{4} = 0$

2. Find the value of $\left(\frac{1}{6}\right)^{-2}$

Competency: Represents daily life situations in the form of a simple equation and solves it

3. The sum of three consecutive natural numbers is 96. Find the middle number using variables

Competency: Calculates profit/loss percent and rate percent in simple interest

4. A shopkeeper fixes the price of an item at Rs.800 and gives a discount of Rs.120. Calculate the discount percentage

Competency: Compares quantities using ratios in different situations

5. The angles of a quadrilateral are in the ratio 3:4:5:6. Find the measure of each angle

Competency: Finds out as many rational numbers as possible between two given rational numbers.

6. Find the four rational numbers between $\frac{1}{2}$ and $\frac{1}{3}$?

Competency: Finds squares, cubes and square roots and cube roots of numbers using different methods.

7. Which of the following is the set of numbers whose cube root is an integer?

a) 8, 1000, 500

b) 216, 27, 81

c) 64, 512, 729

d) 125, 343, 100

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Competency: Uses various algebraic identities in solving problems of daily life

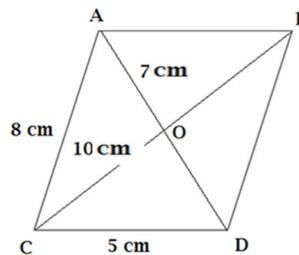
8. If the base and height of a right-angled triangle are $(a+b)$ and $(a-b)$ respectively, what is its hypotenuse?

Competency: Solves problems involving large numbers by applying appropriate operations addition, subtraction, multiplication and division

9. A pipe fills a tank in 6 hours. How long will it take to fill the tank if three such pipes are used together?

Competency: verifies properties of parallelograms and establishes the relationship between them through reasoning.

10. If the diagonals of the parallelogram ABCD shown in the figure are 10 cm and 7 cm respectively, what is the length of DO?



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Sub: Science

10x2=20

Competency: *Conducts simple investigations to seek answers to queries*

1. Why do vehicles moving on a wet surfaces skid when brake is applied?
2. Why are shoulder bags provided with broader straps?
3. Justify that Copper Sulphate is a compound.

Competency: *Relates processes and phenomenon with causes*

4. Based on the metallic properties, give two reasons for using Gold as ornaments.
5. Why do fried snacks become rancid on exposure to air for a long time?
6. Why do people use nitrogen for inflating tyres instead of compressed air?

Competency: *Differentiates materials and organisms differentiates materials and organisms*

7. Distinguish between carbon di oxide and oxygen.
8. Distinguish between autotrophs and heterotrophs.

Competency: *identifies materials and organisms on the basis of observable features.*

9. Name the process of conversion of glucose into glycogen when there is an excess of sugar in the blood and the process of conversion of glycogen into glucose during fasting.

Competency: *explains processes and phenomena*

10. Write the mobility of wrist joint.

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Class:9

Sub: General Intelligence and General Knowledge

1. Who was the first Indian to set foot on the International Space Station?
2. The World Environment Day is celebrated on -----
3. Which planet has the biggest known volcano in our solar system?
4. Complete the analogy : Radio : Listener : : Film : ?
5. Psychology : Human Being :: Ornithology : ?
6. 32 31, 32 29, 32 27, 32 ?
7. You have a cup placed on a table. You are pointing towards the North, and the cup is facing towards the South. On which side is the cup's handle?
8. Which gas makes balloons float?
9. Who is the first Indian woman to win silver medal at the Olympics?
10. Which country did Pele represent and win three FIFA World Cup titles?