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- 1) Photosynthesis in algae is carried out with the help of.
A) Chloroplasts B) Cilia C) Flagella D) Sporangioophores

- 2) Viruses have long molecules of
A) Only DNA B) Only RNA C) Both DNA or RNA D) Either DNA or RNA

- 3) Lactobacilli are shaped bacteria.
A) Comma B) Spiral C) Bacillus D) Vibrio

- 4) Which of the following is a bacterial disease?
A) AIDS B) Cholera C) Rabies D) Dengue

- 5) Non-metal shows the property of luster.
A) Iodine B) Sulphur C) Oxygen D) Platinum

- 6) The element has a zero valency.
A) Hydrogen B) Sodium C) Oxygen D) Helium

- 7) Fermentation of milk is carried out by
A) Streptococci B) Lactobacilli C) Plasmodium D) Mycobacterium

- 8) Yellow urine and grey stool are characteristic symptoms of
A) Tuberculosis B) Dysentery C) Typhoid D) Jaundice

- 9) Pathogen that cause Typhoid.
A) Salmonella typhi B) Vibrio cholerae C) Entamoeba histolytica

- 10) are the organisms at the edge of living and non-living.
A) Protozoans B) Viruses C) Algae D) Bacteria

- 11) Which of the following diseases may be caused due to hereditary factors?
A) Cancer B) Diabetes C) Heart disease D) All of the above

12)

The property of a liquid to exert an upward force on an object immersed in it is called

- A)** Pressure **B)** Force **C)** Buoyancy **D)** Density
-

13)

A force applied between two objects even if the two objects are not in contact is called force.

- A)** Contact **B)** Non-contact **C)** Un-balanced
-

14)

Water, mercury and bromine are similar to each other, because three are

- A)** Liquids **B)** Compounds **C)** Nonmetals **D)** Elements
-

15)

A magnetic needle is a

- A)** Magnet **B)** Cell **C)** Key **D)** Battery
-

16)

Which of the following is a group of eukaryotic, multicellular organisms having cell wall?

- A)** Monera **B)** Protista **C)** Animalia **D)** Fungi
-

17)

Which of the following is known as Baker's yeast?

- A)** Aspergillus **B)** Paramoecium **C)** Clostridium **D)** Saccharomyces
-

18)

Ozone layer prevents the earth from ultraviolet rays of the Sun.

- A)** False **B)** True
-

19)

Non-metals have high densities.

- A)** True **B)** False
-

20)

Valency of carbon is 4 and that of oxygen is 2. From this, we understand that there are chemical bond/bonds between the carbon atom and one oxygen atom in the compound-carbon dioxide.

- A)** 1 **B)** 2 **C)** 3 **D)** 4
-

21)

The corrosion of iron can be prevented by coating it with

- A)** Copper **B)** Lead **C)** Zinc **D)** Silver
-

22)

Boards indicating the air quality index are displayed in busy squares in metro cities.

- A)** True **B)** False
-

23)

Find the odd one out

- A)** Irritation of eyes **B)** Respiratory disorders **C)** Hepatitis **D)** Asthma

24) If wet waste is dumped at wrong place instead of composting, pathogens grow upon it.

A) False **B)** True

25) A greenish color deposit is formed on silver by its reaction with hydrogen sulphide gas.

A) False **B)** True

1) If m and n both are positive numbers then $\frac{m}{n}$ is rational number.

- A) Positive B) Negative C) Both 1 and 2 D) None of these

2) $\frac{23}{99}$ is

- A) 0.2323... B) Non terminating recurring C) $0.\dot{2}3$ D) All of these

3) π is a rational number

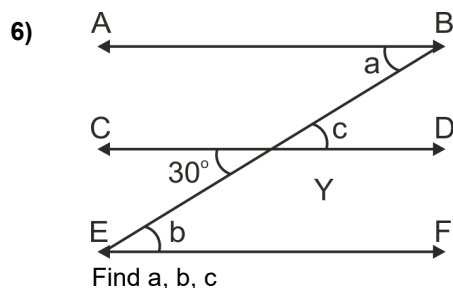
- A) True B) False

4) If the number is of the form $\frac{m}{n}$ and are integers but n is zero, then it is

- A) Rational number B) Not a rational number C) Can be both D) None of these

5) A terminating decimal form can be written as a non terminating recurring decimal form.

- A) True B) False



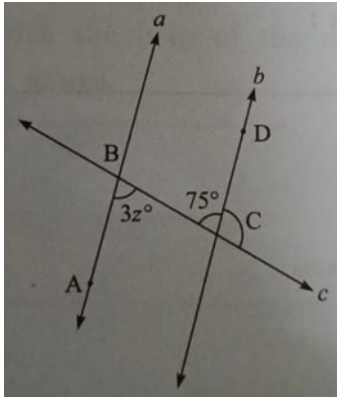
- A) $a = 30^\circ, b = 30^\circ, c = 30^\circ$ B) $a = 30^\circ, b = 60^\circ, c = 30^\circ$ C) $a = 60^\circ, b = 30^\circ, c = 30^\circ$
 D) $a = 30^\circ, b = 30^\circ, c = 60^\circ$

7) If the arms on the transversal of a pair of angles are in the same direction and the other arms on the same side of the transversal, then it is called a pair of angles.

- A) Corresponding B) Interior C) Interior alternate D) Exterior alternate

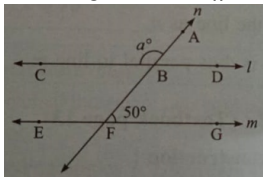
8)

In the figure, line $a \parallel$ line b and line c is the transversal
 $\angle ABC = 3z^\circ$ and $\angle BCD = 75^\circ$ then value of z is



- A) 25° B) 75° C) 50° D) 15°

- 9) In the figure, line $l \parallel$ line m and line n is the transversal, if $\angle ABC = a^\circ$ and $\angle BFG = 50^\circ$ then the value of a is



- A) 50 B) 40 C) 150 D) 130

10) $\sqrt[3]{\frac{729}{1728}} = ?$

- A) $\frac{243}{576}$ B) $\frac{81}{192}$ C) $\frac{27}{64}$ D) $\frac{3}{4}$

11) $\frac{3^{-3^4}}{7} = ?$

- A) $\frac{3^{-7}}{7}$ B) $\frac{3^1}{7}$ C) $\frac{3^{-12}}{7}$ D) $\frac{7^{12}}{3}$

- 12) The simplified form of $(-1)^3 \times (-1)^6$ is

- A) 0 B) -1 C) 1 D) $(-1)^{18}$

- 13) In general n^{th} root of a is expressed as

- A) a^n B) $\frac{1}{a^n}$ C) a^{-n} D) None of these

14) $6^1 =$

- A) 0 B) 1 C) -1 D) 6

15) Find the cube root of $\sqrt[3]{0.027}$

- A) 3 B) 0.3 C) 0.03 D) 0.003

16) What is the simplification of $(-1)^4 \times (-1)^{-4}$?

- A)** 0 **B)** -1 **C)** 1 **D)** $(-1)^{-16}$
-

17) The orthocentre of an obtuse angled triangle lies

- A)** inside the triangle **B)** outside the triangle **C)** on the triangle **D)** cannot be determined
-

18) The perpendicular segment drawn from a vertex of a triangle on side opposite to it is called of the triangle.

- A)** Median **B)** Altitude **C)** Hypotenuse **D)** Base
-

19) $(m - 3)(m - 7) = ?$

- A)** $m^2 - 10m - 21$ **B)** $m^2 - 10m + 21$ **C)** $m^2 + 4m + 21$ **D)** $m^2 - 10m - 21$
-

20) $3X + \frac{2}{3}3X - \frac{3}{5} = \dots\dots\dots$

- A)** $9X^2 + \frac{X^2}{5} - \frac{2}{5}$ **B)** $X^2 + \frac{X}{5} - \frac{2}{5}$ **C)** $9X^2 + \frac{X}{5} - \frac{2}{5}$ **D)** $9X^2 - \frac{X}{5} + \frac{2}{5}$
-

21) The expansion of $x + \frac{1}{3}x - \frac{7}{3}$ is

- A)** $x^2 - \frac{8}{3}x - \frac{7}{9}$ **B)** $x^2 + \frac{8x}{3} - \frac{7}{9}$ **C)** $x^2 - 2x + \frac{7}{9}$ **D)** $x^2 - 2x - \frac{7}{9}$
-

22) $(61)^3 = \dots\dots\dots$

- A)** 226981 **B)** 2206981 **C)** 226901 **D)** 226081
-

23) $\frac{a^2 - 25b^2}{a^3 - 125b^3}$

- A)** $\frac{a - 5b}{a^2 + 5ab + 25b^2}$ **B)** $\frac{a + 5b}{a^2 + 5ab + 25b^2}$ **C)** $\frac{(a - 5b)}{a^2 - 5ab + 25b^2}$ **D)** $\frac{a + 5b}{a^2 - 5ab + 25b^2}$
-

24) $1 - 14q + 49q^2$

- A)** $(1 - 7q)(1 - 7q)$ **B)** $(1 + 7q)(1 + 7q)$ **C)** $(1 - 7q)(1 + 7q)$ **D)** None of these
-

25) Which of the following are the factors of $6x^2 + 5x - 6$?

- A)** $(2x + 3)(3x - 2)$ **B)** $(2x - 3)(3x + 2)$ **C)** $(2x + 3)(3x + 2)$ **D)** $(2x - 3)(3x - 2)$
-