

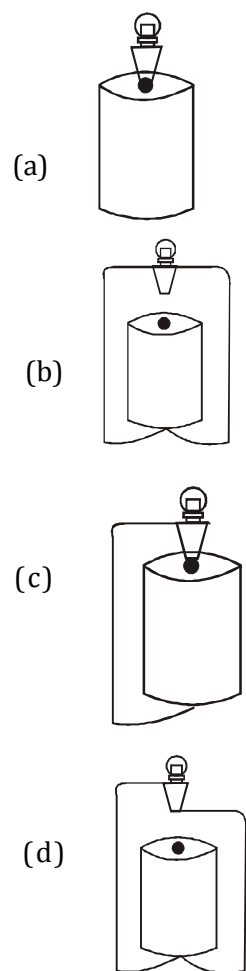
PHYSICS

Q.1 If a charged body is attracted by another positively charged body. What will be the charge of that body

- (a) positive
- (b) negative
- (c) no charge
- (d) can be positive or negative

Ans. (b)

Q.2 Bulb in which of the following arrangements will be able to glow ?



Ans. (c)

Q.3 Which of these is not a contact force?

- (a) Friction
- (b) Muscular force
- (c) Magnetic force
- (d) None of these

Ans. (c)

Q.4 Splitting a compound using electricity is called :

- (a) Electrolysis
- (b) Electrolyte
- (c) Electrolysis
- (d) None of these

Ans. (a)

Q.5 How does pressure vary as we come from mountain top to sea level?

- (a) Increases
- (b) Decreases
- (c) Remains same
- (d) Depends on weather

Ans. (a)

Q.6 A force applied on a moving body may

- (a) bring it to rest
- (b) increase its speed
- (c) decrease the speed
- (d) all of the above

Ans. (d)

Q.7 Which of the following is the most essential for an electric circuit to work ?

- (a) A switch
- (b) An electric current
- (c) A switch board
- (d) none of these

Ans. (b)

Q.8 The heat energy emitted by sun reaches the earth through-

- (a) conduction
- (b) convection
- (c) radiation
- (d) None of these

Ans. (c)

Q.9 Air conditioners are placed high up the walls so that-

- (a) they create less noise
- (b) cold air from them comes down and cools the room while hot air rises up
- (c) They are out of the way
- (d) all of the above

Ans. (b)

Q.10 A person measured his body temperature 95° F at Delhi-gate Nahan and 35°C at Nahan bus stand. Which of the following statement is true?

- (a) At Delhi-gate he has higher body temperature than Nahan bus stand.
- (b) At Delhi-gate he has lower body temperature than Nahan bus stand.
- (c) At both places he have same body temperature
- (d) None of above

Ans. (c)

CHEMISTRY

Q.11 The substance that are used to test whether a substance is acidic or basic is called –

- (a) Acid
- (b) Base
- (c) Salt
- (d) Indicator

Ans. (d)

Q.12 Give the chemical name of lime water –

- (a) Calcium hydroxide
- (b) Magnesium Hydroxide
- (c) Ammonium Hydroxide
- (d) Sodium Hydroxide.

Ans. (a)

Q.13 For protecting iron pipes from corrosion they are coated with -

- (a) Zinc
- (b) Copper
- (c) Aluminum
- (d) Silver

Ans. (a)

Q.14 Blue colour solution of copper sulphate solution changes to green colour when an iron nail is dipped into it due to the formation of –

- (a) Iron Sulphate
 (b) Copper chloride
 (c) Copper iron sulphate
 (d) Iron chloride

Ans. (a)

Q.15 A change of state from one form to another is a –

- (a) Physical change
 (b) Chemical change
 (c) Biological Change
 (d) State change

Ans. (a)

Q.16 Oil can be poison for –

- (a) Insect's life
 (b) Aquatic life
 (c) Animal's life
 (d) Human life

Ans. (b)

Q.17 Which synthetic fibre is called Artificial silk?

- (a) Acrylic
 (b) Nylon
 (c) Polyester

- (d) Rayon

Ans. (a)

Q.18 The non – stick coating on frying pans is that of a plastic called : -

- (a) PVC
 (b) Bakelite
 (c) Melamine
 (d) Teflon

Ans. (d)

Q.19 Oxides of Non- metals are _____ in nature –

- (a) Basic
 (b) Acidic
 (c) Neutral
 (d) All of these

Ans. (b)

Q.20 Which non – metal catches fire if it is exposed to air –

- (a) Sodium
 (b) Phosphorous
 (c) Calcium
 (d) Uranium

20.(b)

MATHEMATICS

Q.21 The sum of all interior angles of a convex polygon of n sides is :

- (a) 4 right angles
 (b) 4n right angles
 (c) (n-1) right angles
 (d) (2n-4) right angles

Ans. (d)

Q.22 The radii of two cylinders are in the ratio 3 : 5 and their heights are in the ratio of 2 : 3, the ratio of their curved surface areas:

- (a) 4 : 3
 (b) 5 : 3
 (c) 2 : 5
 (d) 3 : 5

Ans. (c)

Q.23 $\left(\frac{a^{-1}b^{-1}}{a^{-1}+b^{-1}} - \frac{a^{-1}b^{-1}}{a^{-1}-b^{-1}}\right)$ equal to :

- (a) $\frac{2b}{b^2-a^2}$
 (b) $\frac{2b}{a^2-b^2}$

(c) $\frac{2a}{b^2-a^2}$

(d) $\frac{2a}{a^2-b^2}$

Ans. (d)

Q.24 If $(4)^3 \times (6)^4 \times (10)^5 = 2^x \times 3^y \times 5^z$, then the value of $x + y + z$ is :

- (a) 12
 (b) 15
 (c) 20
 (d) 24

Ans. (d)

Q.25 In Career Academy Sr. Sec. School. There are 88 students in class 8th of which
 (i) 33 students gets above 90% marks,
 (ii) 22 students gets (80-90)% marks,
 (iii) 16 students gets (70-80)% marks &
 (iv) remaining passed with above 60% marks.

Find the percentage of student who gets above 80% marks

- (a) 37.5%
 (b) 62.5%
 (c) 19.31%
 (d) None of these

Ans. (b)

Q.26 If the diagonals of a rhombus are 8 cm and 6 cm respectively, then the perimeter of the rhombus is :

- (a) 20 cm
- (b) 16 cm
- (c) 12 cm
- (d) 28 cm

Ans. (a)

Q.27 If $\sqrt{1.21} = 1.1$, then $\sqrt{0.000121}$ is equal to:

- (a) 0.0011
- (b) 0.011
- (c) 0.11
- (d) 11.0

Ans. (b)

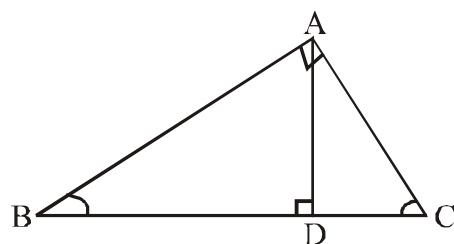
Q.28 What least number should be added to 1330 to get a number exactly divisible by 43?

- (a) 46
- (b) 1
- (c) 3
- (d) 7

Ans. (c)

Q.29 In $\triangle ABC$, $\angle BAC = 90^\circ$ and $AD \perp BC$. If

$\angle BAD = 40^\circ$, then $\angle ACD$ is :



- (a) 40°
- (b) 50°
- (c) 140°
- (d) 60°

Ans. (a)

Q.30 What is the difference in the biggest and

the smallest fraction among $\frac{2}{3}$, $\frac{3}{4}$, $\frac{4}{5}$ and $\frac{5}{6}$?

- (a) $\frac{1}{6}$
- (b) $\frac{1}{12}$
- (c) $\frac{1}{20}$
- (d) $\frac{1}{30}$

Ans. (a)

BIOLOGY

Q.31 The process of breakdown of food in the cell with the release of energy is called-

- (a) Respiration
- (b) Inhalation
- (c) Exhalation
- (d) Breathing

Ans. (a)

Q.32 In Career Academy, a student is suffering from scurvy due to the deficiency of which vitamin

- (a) Vitamin A
- (b) Vitamin B
- (c) Vitamin C
- (d) Vitamin D

Ans. (c)

Q.33 The part of blood which does not have a nucleus-

- (a) RBC
- (b) WBC
- (c) Platelets

(d) Plasma

Ans. (a)

Q.34 Trees of which type of forest do not shed leaves at a particular time of year?

- (a) Deciduous
- (b) Conifer
- (c) Grass land
- (d) Evergreen

Ans. (d)

Q.35 The yeast multiply by a process called-

- (a) Binary fission
- (b) Budding
- (c) Spore formation
- (d) Fragmentation

Ans. (b)

Q.36 Plant disease citrus canker is caused by-

- (a) Virus
- (b) Fungi
- (c) Bacteria
- (d) Protozoa

Ans. (c)

Q.37 The kitchen of the cell is called-
What

- (a) Cell wall

(b) Nucleus

(c) Vacuoles

(d) Plastids

Ans. (d)

Q.38 The cells capable of changing shapes are-

(a) Amoeba cell

(b) WBC

(c) Both of these

(d) None of these

Ans. (c)

Q.39 Which of the following term is not a part of the nucleus?

(a) Ribosomes

(b) Nucleolus

(c) Chromosomes

(d) Gene

Ans. (a)

Q.40 Which of the following is a kharif crop?

(a) Wheat

(b) Mustard

(c) Groundnut

(d) Gram

Ans. (c)

I.Q

Q.41 In a certain code, OVER is written as \$ # % * and VIST is written as # + × − , then how SORE will written in that code?

(a) × \$ * %

(b) % × \$ *

(c) × * \$ %

(d) None of these

Ans. (a)

Q.42 Shikha went 10 km South from CAREER ACADEMY NAHAN. She turned right and goes 5km, again turned right and cycled 10 km. Now, she turned left and cycled 10 km. What is the shortest distance of Shikha from CAREER ACADEMY NAHAN

(a) 5 km

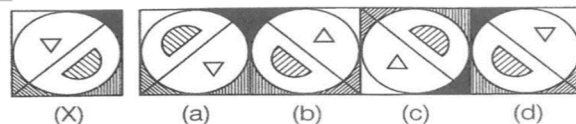
(b) 15 km

(c) 20 km

(d) 25 km

Ans. (b)

Q.43 Choose the correct mirror image of the figure (X) from amongst the four alternatives (a), (b), (c) and (d) given along with it



43.(d)

Q.44 Find out the Wrong / incorrect term

8, 24, 72, 248, 648

(a) 72

(b) 248

(c) 24

(d) 648

Ans. (b)

Q.45 Complete the given series

MHZ, NIW, OKT, PNQ,

(a) RRN

(b) QRN

(c) QRM

(d) QQN

Ans. (b)

Q.46 Mita is taller than Rita but not as tall as Soni. Rita is taller than Sarita. Soni is not as tall as Rupa. Who among them is the tallest?

(a) Mita

(b) Rupa

(c) Soni

(d) Sarita

Ans. (b)

Q.47 Choose the alternative which most closely resembles the mirror image of the given combination

CAREER ACADEMY

(a) **WAEVAV RAEERAV**

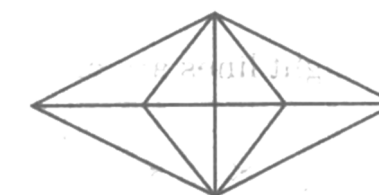
(b) **YMEYV ACADEMY**

(c) **CAREER ACADEMY**

(d) **WAEVAV RAEERAV**

Ans. (b)

Q.48 How many triangles are there in the following figure?



(a) 10

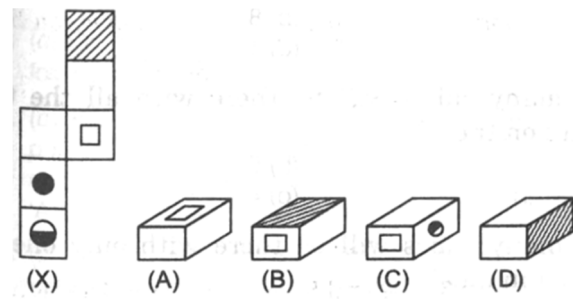
(b) 14

(c) 24

(d) 20

Ans. (c)

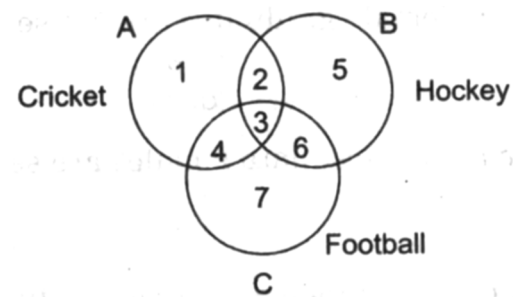
Q.49 In the figures below marked (X) at left hand side is folded in such a way that it could form the shape of a box. You have to choose one of the choices given as (A), (B), (C) and (D) that is similar as the box formed.



- (a) Only 'A'
- (b) 'B' and 'C'
- (c) 'A' and 'C'
- (d) 'A', 'B' and 'D'

Ans. (c)

Q.50 This question is based on the following diagram.



Which numeral represents the set of persons, who play all three games?

- (a) 3
- (b) 4
- (c) 6
- (d) 7

Ans. (a)