

PHYSICS

Q.1 If a man measured distance between Nahan and Chandigarh. What can be his answer?

- (a) 87000 m
- (b) 8700 m
- (c) 870 m
- (d) 87 m

Ans. (a)

Q.2 A force can

- (A) Move a body from rest
- (B) Change the direction of a moving body
- (C) Increase the mass of a body
- (a) only A is true
- (b) only B is true
- (c) only A and B are true
- (d) only A and C are true

Ans. (c)

Q.3 The speed of light is :

- (a) 330 m/s
- (b) 300,000,000 m/s
- (c) 30,000 m/s
- (d) 300,000,000 km/s

Ans. (b)

Q.4 Which of the following is a reflector of light ?

- (a) Sun

(b) Moon

(c) Star

(d) Filament

Ans. (b)

Q.5 SI unit of Energy is

- (a) Newton
- (b) Joule
- (c) Joule/kg
- (d) all of these

Ans. (b)

Q.6 White light spectrum contains-

- (a) 5 colours
- (b) 7 colours
- (c) 6 colours
- (d) No colour

Ans. (b)

Q.7 Magnification glass is a

- (a) Concave lense
- (b) Convex lens
- (d) Plane glass
- (d) plane fiber glass

Ans. (b)

Q.8 Which planet appears to be yellowish?

- (a) Asteroids
- (b) Mars
- (c) Uranus
- (d) Saturn

8.(d)

Q.9 The tilting of the earth is responsible for

- (a) Change of days
- (b) Change of the sun's rays
- (c) Change of the season
- (d) None

Ans. (c)

Q.10 What is true about shadows and images?

- (a) Shadows are always black in colour
- (b) Shadows are formed because light travels in straight line
- (c) Images shows the colour of the objects
- (d) All the above

Ans. (b)

CHEMISTRY

Q.11 What type of natural resource are you using when you fly a kite?

- (a) Air
- (b) Water
- (c) Plants
- (d) Thread.

Ans. (a)

Q.12 Rainfall patterns depend on

- (a) The underground water bodies

(b) The number of water bodies in an area

(c) The density pattern of human population in an area

(d) The prevailing season in an area

Ans. (b)

Q.13 Particles of matter in gas are _____

- (a) Stationary
- (b) Vibrating in one position
- (c) Continuously moving
- (d) Rotating about axis.

Ans. (c)

Q.14 Which state of matter is the easiest to compress?

- (a) Solid
- (b) Liquid
- (c) Gas
- (d) All of these.

Ans. (c)

Q.15 Ice needs _____ to convert into water.

- (a) Bucket
- (b) Heat
- (c) Sound
- (d) None of the above.

Ans. (b)

Q.16 The process of setting down of particles of a solid in a liquid is -

- (a) Decantation
- (b) Sublimation
- (c) Sedimentation
- (d) Filtration.

Ans. (c)

Q.17 A commonly used chemical for loading is ____

- (a) Hydrogen
- (b) Alum
- (c) Sulphur
- (d) Common salt.

Ans. (b)

Q.18 Which of these is not a natural fibre?

- (a) Leather
- (b) Jute
- (c) Cotton
- (d) Wool.

Ans. (a)

Q.19 The correct sequence to get cloth is _____

- (a) Fibre → fabric → Yarn
- (b) Fibre → Yarn → Fabric

(c) Fabric → Yarn → Fibre

(d) Yarn → Fibre → Fabric.

Ans. (b)

Q.20 A liquid which contains the dissolved material is known as ____

- (a) Solvent
- (b) Solute
- (c) Solution
- (d) Water.

Ans. (a)

MATHEMATICS

Q.21 Write in number and add: Three million forty five thousand five hundred six and forty lakh fifty five thousand five hundred sixty six ?

- (a) 700172
- (b) 7101712
- (c) 7101072
- (d) 70010712

Ans. (c)

Q.22 A chair cost Rs. 1350 and a table cost Rs 2375. What will be the cost of 15 chairs and 35 tables altogether?

- (a) 100375
- (b) 103375

(c) 104375

(d) 103475

Ans. (b)

Q.23 The five day forecast the south pole list the low temperature as $-24^\circ, -25^\circ, -28^\circ, -29^\circ$ and -30° .

Which choice shows the temperature in order from the lowest to the highest?

- (a) $-24^\circ, -25^\circ, -28^\circ, -29^\circ, -30^\circ$
- (b) $-30^\circ, -28^\circ, -29^\circ, -25^\circ, -24^\circ$
- (c) $-30^\circ, -29^\circ, -28^\circ, -25^\circ, -24^\circ$
- (d) $-30^\circ, -29^\circ, -28^\circ, -24^\circ, -25^\circ$

Ans. (c)

Q.24 Read the statement given below and choose the correct answer

Statement 1: Numbers having more than two factors are known as composite numbers.

Statement 2: A number for which sum of all its factors is equal to twice the number is called a perfect number.

- (a) Statement 1 is true statement 2 is false
- (b) Statement 1 is false statement 2 is true
- (c) Both statement are true
- (d) Both statement are false

Ans. (a)

Q.25 The population of a city is 2,09,32,714 out of these 90,47,314 are men, 84,35,784 are women and rest are children. Find the number of children in the city?

- (a) 34,94,616
- (b) 34,49,616
- (c) 34,49,681
- (d) 34,94,661

Ans. (b)

Q.26 Sidak bought $13\frac{5}{8}$ m of cloth and Sanchi bought $13\frac{3}{4}$ m cloth who bought more cloth and how much

- (a) Sanchi $\frac{7}{8}$ m
- (b) sidak $\frac{1}{8}$ m
- (c) sanchi $\frac{1}{8}$ m
- (d) Sidak $\frac{7}{8}$ m

Ans. (c)

Q.27 Three or more points in a plane are said to be collinear, if they lie on the

- (a) same plane
- (b) same line
- (c) different lines
- (d) none

Ans. (b)

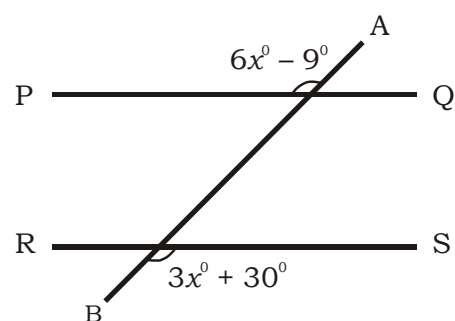
Q.28 A boy along with his father walked near Career Academy. Suddenly he saw CATSE Banner (CATSE organised by Career Academy, Nahan) and he asked his father the information regarding the CATSE – Examination. Further about the length and breadth of the CATSE – Banner. His father

told him an approximate value of length and breadth about 5m and 3.5m respectively. Finally the father asked respectively. Finally the father asked him son about the area of the rectangular banner. So what answer is given by his son?

- (a) $17.5 m^2$
 (b) $15m^2$
 (c) $7.5m^2$
 (d) $20m^2$

Ans. (a)

Q.29 The value of x° that will make PQ parallel to RS is



- (a) 17°
 (b) 50°
 (c) 13°
 (d) 27°

Ans. (c)

Q.30 In ABC, $B = 5C$ and $A = 3C$, then the angles of the triangle are

- (a) $A = 60^\circ, B = 20^\circ, C = 100^\circ$
 (b) $A = 60^\circ, B = 100^\circ, C = 20^\circ$
 (c) $A = 20^\circ, B = 60^\circ, C = 100^\circ$
 (d) $A = 100^\circ, B = 20^\circ, C = 60^\circ$

Ans. (b)

BIOLOGY

Q.31 Animal products are rich in –

- (a) Proteins
 (b) Calcium
 (c) Carbohydrates
 (d) Minerals

Ans. (a)

Q.32 Which of the following food items is rich in Iron?

- (a) Sea fish
 (b) Spinach
 (c) Milk
 (d) Almonds

Ans. (b)

Q.33 The _____ Pairs of ribs make a cone-shaped cage.

- (a) 11
 (b) 10
 (c) 12
 (d) 2

Ans. (c)

Q.34 The mineral which controls the functioning of thyroid is-

- (a) Phosphorus

(b) Calcium

(c) Magnesium

(d) Iodine

Ans. (d)

Q.35 Deficiency of proteins and carbohydrates in infants leads to-

- (a) Marasmus
 (b) Goitre
 (c) Obesity
 (d) Typhoid

Ans. (a)

Q.36 A plant potted in one of the Career Academy's gallery is green in colour due to presence of which pigment

- (a) Anthocyanin
 (b) Lycopene
 (c) Chlorophyll
 (d) Haemoglobin

Ans. (c)

Q.37 In Cactus plant _____ are reduced to spines.

- (a) Leaves
 (b) Stem
 (c) Roots
 (d) Flowers

Ans. (a)

Q.38 Fishes have scale on their body. This helps them to _____

- (a) Remain in the same place in water
 (b) Balance themselves in water
 (c) Change direction in water
 (d) Swim in water

Ans. (c)

Q.39 Which is a correct set of parts of a pistil?

- (a) Ovary, Style and filament
 (b) Ovary, Style and Stigma
 (c) Ovary, Anther and filament
 (d) Filament and anther

Ans. (b)

Q.40 Sanctuary is a place where-

- (a) Animals are protected
 (b) Plants are protected
 (c) Office of forest department
 (d) Humans are protected

Ans. (a)

I.Q

Q.41 If "TEAM" is coded as 'VGCO', then 'LIFE' will be coded as

- (a) NJGE
 (b) NLIH

(c) NKHH

(d) NKHG

Ans. (d)

Q.42 If the word "TRADE" is coded as 'XVEHI', how the word 'PUBLIC' should be coded?

(a) TYFMPG

(b) SXEOLF

(c) TYFPMG

(d) SXLLOP

Ans. (c)

Q.43 Arrange the given words in the sequence in which they occur in the directory and then choose the correct sequence.

(a) Page

(b) Palisade

(c) Pageant

(d) Parrot

(e) Peacock.

(A) (a), (c), (b), (e), (d)

(B) (a), (b), (c), (d), (e)

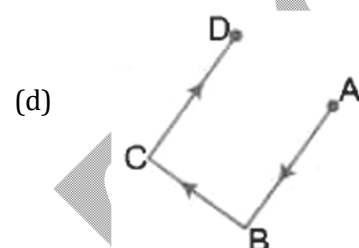
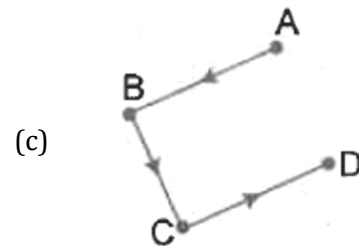
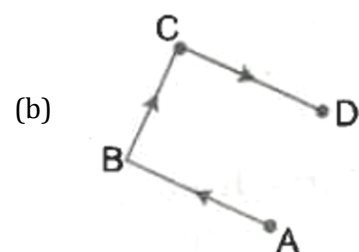
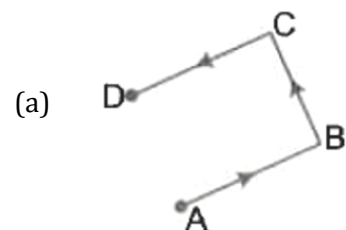
(C) (a), (c), (b), (d), (e)

(D) (e), (d), (a), (b), (c)

Ans. (c)

Q.44 Raju from A moved North- West side 2 km to B from there he turned 90° clockwise and moved 2 km to

C. From there, he turned 90° clockwise and travelled 2 km to D. Which of the answer figures shows he exact path he traced?



Ans. (b)

Q.45 Anuj started walking positioning his back towards the Sun. After sometime, he turned left, then turned right and then towards the left again. In which direction is he going now?

(a) North or South

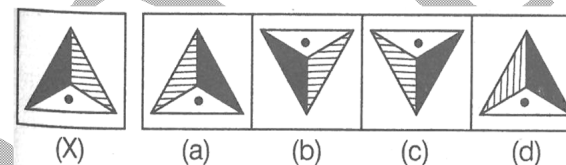
(b) East or West

(c) North or West

(d) South or West

Ans. (a)

Q.46 Choose the correct mirror image of the (X) from amongst the four alternatives (a), (b), (c) and (d) given along with it.



Ans. (a)

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

CAREER ACADEMY

(a) **YWEDAV A REERAV**

(b) **YMEDACA REERAC**

(c) **CAREER ACADEMY**

(d) **YMEDVAV REERVC**

Ans. (b)

Q.48 Complete the given series.

5, 9, 17, 29, 45,

(a) 60

(b) 65

(c) 70

(d) 68

Ans. (b)

Q.49 Find out the wrong/incorrect term.

11, 22, 44, 77, 122

(a) 22

(b) 122

(c) 77

(d) 44

Ans. (b)

Q.50 Complete the given series.

OTE, PUF, QVG, RWH,

(a) SY J

(b) TXI

(c) SX J

(d) SXI

Ans. (d)