

PHYSICS

Q.1 Magnetic force causes

- (a) attraction
- (b) repulsion
- (c) both attraction and repulsion
- (d) none of these

Ans. (c)

Q.2 Express a speed of $\frac{18}{5}$ km/hr in m/s

- (a) 1m/s
- (b) 2 m/s
- (c) 3 m/s
- (d) 4 m/s

Ans. (a)

Q.3 A student cover a distance 40 km from his home to career academy and returns back to his home. Then displacement covered by the student in the whole path is.

- (a) 0
- (b) 10
- (c) 30
- (d) 50

Ans. (a)

Q.4 The figure shows the path taken by a boy during walk from A to D

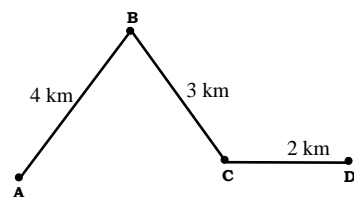
The total distance moved by the boy is

- (a) 12 km

(b) 9 km

(c) 10 km

(d) 5 km



Ans. (b)

Q.5 Which of the following is an electrical insulator ?

- (a) Aluminium
- (b) Gold
- (c) Rubber
- (d) None of these

Ans. (c)

Q.6 An electric current produces

- (a) Magnetic effect
- (b) Chemical effect
- (c) Heating effect
- (d) All of the above

Ans. (d)

Q.7 Conduction cannot takes place in

- (a) copper
- (b) iron
- (c) alluminium
- (d) vacuum

Ans. (d)

Q.8 Sweating causes cooling by

- (a) conduction
- (b) radiation
- (c) convection
- (d) evaporation

Ans. (d)

Q.9 It is warmer to have two thin blankets than to have a single thick blanket because-

- (a) thick blanket cannot give more warmth
- (b) two blankets allow more heat to pass through them
- (c) air between the two blankets is a good conductor of heat
- (d) air between the thin blankets does not allow heat to pass through it since it is a bad conductor

Ans. (d)

Q.10 A boy whose position with respect to surrounding does not change, is said to be in a state of -

- (a) Rest
- (b) Motion
- (c) Vibration
- (d) Oscillation

Ans. (a)

CHEMISTRY

Q.11 Which of the following change is non - periodic ?

- (a) Heart beat
- (b) Earth Quake

(c) Occurrence of day and Night.

(d) Oscillation of pendulum.

Ans. (b)

Q.12 When heat is liberated then the change is called

- (a) Exothermic change
- (b) Endothermic change
- (c) Rapid change
- (d) none of these

Ans. (a)

Q.13 Air pollution cause

- (a) Global warming
- (b) Respiratory problems
- (c) Soil erosion
- (d) None of these.

Ans. (b)

Q.14 Greenhouse gas is

- (a) Nitrogen
- (b) Oxygen
- (c) Methane
- (d) Carbon dioxide

Ans. (d)

Q.15 World water Day is celebrated on

- (a) 22nd March
- (b) 24th March
- (c) 28th February
- (d) 1st March

Ans. (a)

Q.16 Find the natural indicator from the following –

- (a) China Rose
- (b) Vinegar
- (c) Phenolphthalein
- (d) Methyl orange

Ans. (a)

Q.17 Products of Neutralization reaction are always

- (a) An acid and a base
- (b) An acid and a salt
- (c) A salt and water
- (d) A salt and a base.

Ans. (c)

Q.18 Sodium hydroxide is found in

- (a) Lemon
- (b) Soap
- (c) Oil of vitriol
- (d) Table salt.

Ans. (b)

Q.19 Animal fibres are made up of

- (a) Cellulose
- (b) Protein
- (c) Nylon
- (d) Rayon

Ans. (b)

Q.20 Which type of shawls are woven from the fur of Kashmir goat?

- (a) Pashmina

(b) Parsi

(c) Kashmiri

(d) Simla

Ans. (a)

MATHEMATICS

Q.21 The product of two proper fraction is always ----- then each of the given fraction.

- (a) equal to
- (b) greater
- (c) smaller
- (d) none of these

Ans. (c)

Q.22 For any two non - zero rational numbers x and y , $x^4 \div y^4$ equal to

- (a) $x = y$
- (b) $(y \div x)^4$
- (c) $(x \div y)^4$
- (d) $(x \div y)^1$

Ans. (c)

Q.23 The perimeter of a floor of a room is 17m, what is the area of four walls of the room. If its height is 4m.

- (a) 76 sq m
- (b) 48 sq m
- (c) 54 sq m
- (d) 68 sq m

Ans. (d)

Q.24 One of the exterior angle of a triangle is 72° and its interior opposite angle are in ratio 4:5. The angles of the triangle are

- (a) $32^\circ, 40^\circ$
- (b) $30^\circ, 42^\circ$
- (c) $28^\circ, 44^\circ$
- (d) $50^\circ, 22^\circ$

Ans. (a)

Q.25 Which of the following is true

- (a) The mean of the first 5 natural numbers is same as their median
- (b) The mean of the first 5 natural number is the same as the mean of the first 5 whole numbers
- (c) The median of the first 5 whole number is same as the mean of the first 5 natural number
- (d) The mode of first 5 natural number is 5

Ans. (a)

Q.26 In Career Academy there 80 students in class 7th,

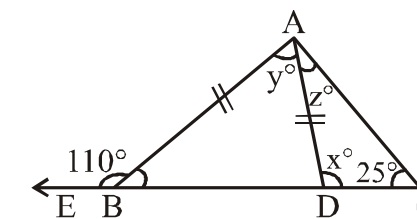
- (i) 24 students gets above 90% marks
- (ii) 36 students gets (80-90)% marks
- (iii) remaining students passed or below 80% marks

What is the percentage of students gets above 90% marks in examination

- (a) 24%
- (b) 30%
- (c) 45
- (d) 25%

Ans. (b)

Q.27 In the given figure, find $\angle z =$



- (a) 40°
- (b) 110°
- (c) 45°
- (d) 90°

Ans. (c)

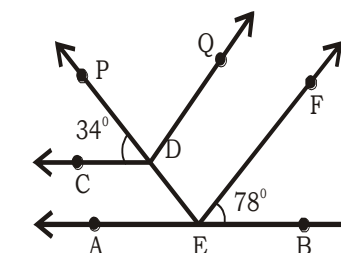
Q.28 Which parts contain the fractions in ascending order?

- (a) $\frac{11}{14}, \frac{16}{19}, \frac{19}{21}$
- (b) $\frac{16}{19}, \frac{11}{14}, \frac{19}{21}$
- (c) $\frac{19}{21}, \frac{11}{14}, \frac{16}{19}$
- (d) $\frac{16}{19}, \frac{19}{21}, \frac{11}{14}$

Ans. (a)

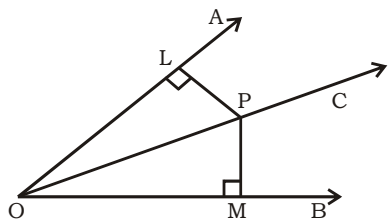
Q.29 In the figure given below, AB is parallel to CD and EF is parallel to DQ, then $\angle DEF$ is

- (a) 112°
- (b) 146°
- (c) 102°
- (d) 68°



Ans. (d)

Q.30 If $PL = PM$, then $\Delta PLO \cong \Delta PMO$ according to _____ congruence criteria.



- (a) SAS
(b) ASA
(c) RHS
(d) SSS

Ans. (c)

BIOLOGY

Q.31 Which of the following joints is immovable?

- (a) Shoulder and arm
(b) Knee and Ankle
(c) Upper jaw and skull
(d) Lower Jaw and upper Jaw

Ans. (c)

Q.32 After testing saliva of one of the student of Career Academy, it is clear that _____ enzyme is present in saliva?

- (a) Amylase
(b) Lipase
(c) Trypsin
(d) Peptidase

Ans. (a)

Q.33 Green garbage bin is used for collecting which of the following item?

- (a) Kitchen waste
(b) Plant waste
(c) Animal Waste
(d) All of these

Ans. (d)

Q.34 Redworms grind their food with the help of-

- (a) Teeth
(b) Gizzard
(c) Stomach
(d) Tentacles

Ans. (b)

Q.35 Banana has _____ roots

- (a) Tap Root
(b) Lateral Root
(c) Fibrous Root
(d) None

Ans. (c)

Q.36 The following is a list of some plants and the habitat in which they live. Which option is mis-matched?

- (a) Mangroves- Marshy areas
(b) Coconut- Hot and damp places
(c) Cactus – Wet areas
(d) Mango- Plain Areas

Ans. (c)

Q.37 Some organisms live together and share shelter and nutrition. This is called-

- (a) Predation
(b) Symbiotic Relationship
(c) Autotrophs
(d) Heterotrophs

Ans. (b)

Q.38 Which one of the following is broken down into glucose by intestinal juice?

- (a) Proteins
(b) Carbohydrates
(c) Fats
(d) Vitamins

Ans. (b)

Q.39 The department which prepares the weather report is-

- (a) Telecom department
(b) Electrical department
(c) Meterological department
(d) Civil department

Ans. (c)

Q.40 Which of the following statement is incorrect for penguins?

- (a) They huddle together
(b) They cannot swim
(c) They have webbed feet
(d) They have streamlined body

Ans. (b)

I.Q

Q.41 If 'FULFNHW' is the code for 'CRICKET', then 'EULGH' is the code for which word?

- (a) PRIDE
(b) BRIDE
(c) BLADE
(d) BLIND

Ans. (b)

Q.42 Arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence.

- (a) Overweight
 - (b) Overtime
 - (c) Overtax
 - (d) Overzeal
 - (e) Overwork.
- (A) (b), (a), (d), (e), (c)
 (B) (c), (a), (b), (e), (d)
 (C) (c), (b), (a), (e), (d)
 (D) (e), (d), (a), (b), (c)

Ans. (c)

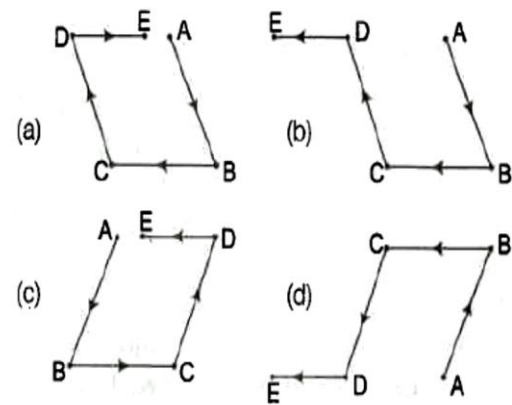
Q.43 A man travels 4 km due North, then travels 6 km due East and further travels 4 km due North. How far he is from the starting point?

- (a) 6 km
- (b) 14 km
- (c) 8 km
- (d) 10 km

Ans. (d)

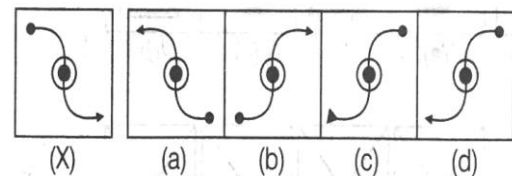
Q.44 Career Academy MBBS Topper Shivani starts from A and walks towards South – East to B. She turns West and walks to C.

Then, she turns North- West and walks to D. Finally, she turns East and walks to E. Which of the answer exactly shows the path Shivani traced?



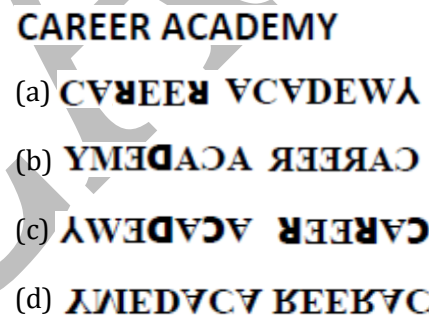
Ans. (a)

Q.45 Choose the correct mirror image of the (X) from amongst the four alternatives (a), (b), (c) and (d) given along with it



Ans. (d)

Q.46 Choose the alternative which most closely resembles the mirror image of the given combination



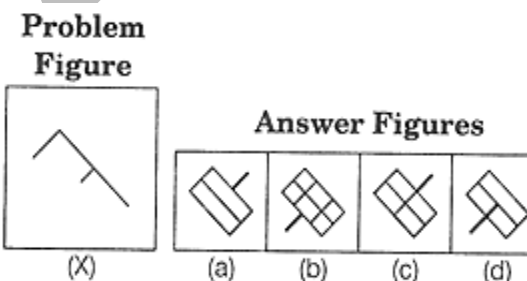
Ans. (b)

Q.47 Complete the given series.
 17, 25, 41, 65, 97,

- (a) 147
- (b) 100
- (c) 137
- (d) 98.

Ans. (c)

Q.48 You are given a figure (x) following by four (a), (b), (c) and (d) such that (x) is embedded in one of them. Trace out the correct alternative.



Ans. (c)

Q.49 If + means \times , $-$ means \div , \times means $+$ and \div means $-$, then $10 \times 18 - 9 + 3 \div 1$ is equal to

- (a) 16
- (b) 15
- (c) 17
- (d) 18

Ans. (b)

Q.50 Choose the alternative which most closely resembles the water image of the given combination.

- DISC-6**
- (a) **CSID-6**
 - (b) **DISC-6**
 - (c) **DISC-9**
 - (d) **DISC-6**

Ans. (c)