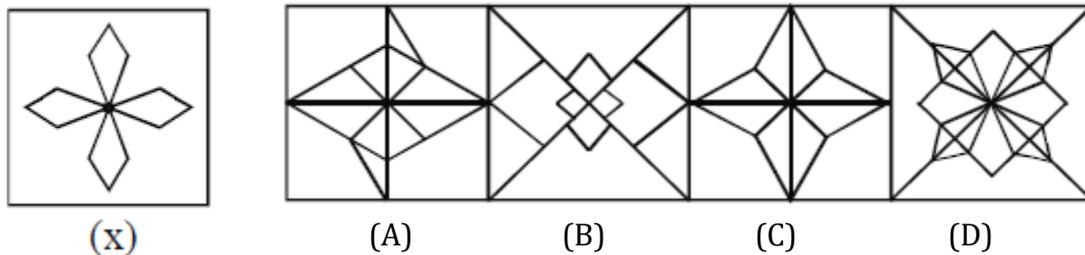


IQ:

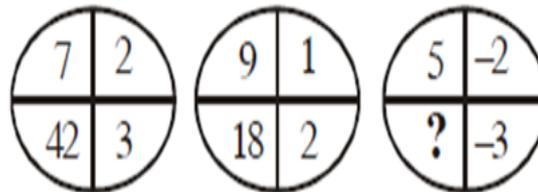
Q.1 In the question you are given a figure (x) followed by four figures (A), (B), (C) and (Ds) suchthat (X) is embedded in one of them. Trace out the correct alternative



Q.2 If $2 + 2 = 8, 3 + 5 = 24, 2 + 5 = 14, 3 + 4 = 21$ then $5 + 7$ is :
 (a) 50 (b) 60 (c) 70 (d) 80

Q.3 Which number should come in place of question mark ?

- (a) 18
- (b) 13
- (c) 30
- (d) - 30



Q.4 A is the mother of B and C. If D is the husband of C. What is A to D?

- (a) Mother (b) Sister
- (c) Aunt (d) Mother- in-law

Q.5 If banana is apple, apple is grapes, grapes is mango, mango is nuts, nuts is guava, which of the following is the yellow fruit?

- (a) Mango (b) Guava
- (c) Apple (d) Nuts

Q.6 What is the probability of choosing a vowel from the English alphabets?

- (a) $\frac{21}{26}$ (b) $\frac{5}{26}$ (c) $\frac{1}{26}$ (d) None of these

Q.7 The cost of painting the four walls of a room is Rs. 350. The cost of painting a room three times in length, breadth and height will be

- (a) Rs. 1050 (b) Rs. 1400 (c) Rs. 3150 (d) Rs. 4200

Q.8 If the radius of a sphere is doubled, then its volume is increased by:

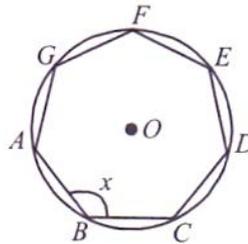
- (a) 100% (b) 200% (c) 700% (d) 800%

Q.9 The perimeter of a right angled triangle is 450m. If its sides are in the ratio 5 : 12 : 13, the area of the triangle is

- (a) 9000m² (b) 8765m² (c) 6750m² (d) 11750m²

Q.10 There are seven equal chords in the circle with centre O in the given, the value of x

- (a) $128\frac{4^0}{7}$
 (b) $180\frac{6^0}{7}$
 (c) $128\frac{1^0}{7}$
 (d) $360\frac{4^0}{7}$

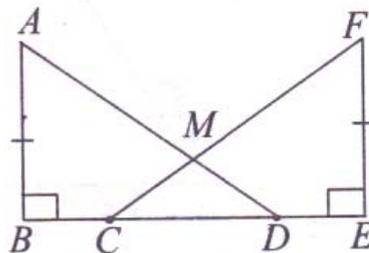


Q.11 Two adjacent angles of a parallelogram are in the ratio 2 : 3. The angles are

- (a) 90°, 180° (b) 36°, 144° (c) 72°, 108° (d) 52°, 104°

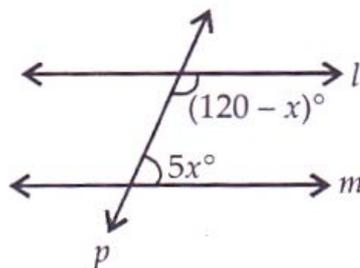
Q.12 In the given figure, $AB \perp BE$ and $EF \perp BE$. Also $BC = DE$ and $AB = EF$. Then

- (a) $\triangle ABD \cong \triangle FEC$
 (b) $\triangle ABD \cong \triangle FEC$
 (c) $\triangle ABD \cong \triangle FEC$
 (d) $\triangle ABD \cong \triangle FEC$



Q.13 The value of x from the adjoining figure, If $l \parallel m$ is

- (a) 15°
 (b) 10°
 (c) 19°
 (d) 36°



Q.14 If (a,1) lies on the graph of $3x - 2y + 4 = 0$, then a =

- (a) $\frac{-2}{3}$ (b) $\frac{2}{3}$ (c) $\frac{3}{2}$ (d) $\frac{-3}{2}$

Q.15 $\left(\frac{256x^{16}}{81y^4}\right)^{\frac{-1}{4}} =$

- (a) $\left(\frac{3y}{4x^4}\right)$ (b) $\left(\frac{2y}{6x^4}\right)$ (c) $\left(\frac{3y}{8x^4}\right)$ (d) $\left(\frac{4y}{5x^4}\right)$

Q.16 Who proposed the cell theory ?

- (a) Schleiden and Schwann (b) Watson and Crick

(c) Darwin and Wallace

(d) Mendel and Morgan

Q.17 Which type of tissue forms glands ?

(a) Epithelial

(b) Connective

(c) Nervous

(d) Muscle

Q.18 Which one of the following causes kala-azar ?

(a) Ascaris

(b) Trypanosoma

(c) Leishmania

(d) Bacteria

Q.19 The term 'biomagnification' refer to the

(a) growth of organism due to blood consumption

(b) increase in population size

(c) blowing up of environmental issues by man

(d) increase in the concentration of non-biodegradable pollutants as they pass through food chain

Q.20 Which of the following represents one mole of the substance ?

(A) 1 gram hydrogen

(B) 14 gram of nitrogen

(C) 12 gram of C-12

(D) 0.024 kg of carbon

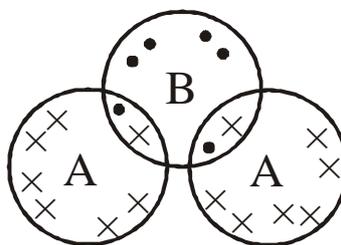
Q.21 Which pair of elements could be A and B ?

(A) A = fluorine, B = calcium

(B) A = hydrogen, B = oxygen

(C) A = chlorine, B = sulphur

(D) A = sulphur, B = carbon



Q.22 Rutherford's scattering experiment is related to -

(A) neutrons

(B) atom

(C) electron

(D) nucleus

Q.23 A device used for the measurement of radioactivity is a -

(A) Mass spectrometer

(B) Cyclotron

(C) Nuclear reactor

(D) G.M. Counter

Q.24 The velocity-time graph of a body in motion is a straight line parallel to time axis or x-axis. The acceleration of the body is -

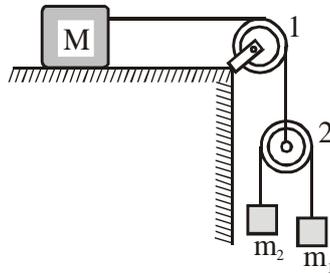
(a) 0

(b) infinity

(c) depends on the time

(d) finite

Q.25 In the arrangement shown in figure $m_1 = 1$ kg, $m_2 = 2$ kg. Pulleys are massless and strings are light. For what value of M the mass m_1 moves with constant velocity?
(Neglect friction)



(a) 6kg

(b) 4kg

(c) 8 kg

(d) 10 kg

ANSWER KEY

- | | | | | |
|------|------|------|------|------|
| 1.d | 2.b | 3.c | 4.d | 5.d |
| 6.b | 7.c | 8.c | 9.c | 10.a |
| 11.c | 12.a | 13.a | 14.a | 15.a |
| 16.a | 17.a | 18.c | 19.d | 20.c |
| 21.c | 22.d | 23.d | 24.b | 25.c |