

- Q.3 A hemispherical basin 150 cm in diameter holds water one hundred and twenty times as much a cylindrical tube. If the height of the tube is 15 cm, then the diameter of the tube (in cm) is:
- (a) 23
(b) 24
(c) 25
(d) 26

ANSWER KEY

Q1.(C) Q2.(A) Q3.(C)

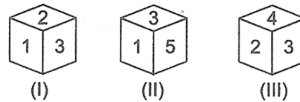
MENTAL ABILITY

- Q.1 If 'FULFNHW' is the code for 'CRICKET', then 'EULGH' is the code for which word?
- (a) PRIDE
(b) BRIDE
(c) BLADE
(d) BLIND
- Q.2 P, Q, R, S, T, U and V are seven members of a family of four adults and three children, two

of whom, U and V are girls. P and S are brothers and Q is a doctor. T is an engineer married to one of the brothers and has two children. Q is married to S and V is their child. Who is R?

(a) P's son
(b) T's daughter
(c) U's father
(d) V's brother

- Q.3 Which number is opposite to face 3?



- (a) 1
(b) 6
(c) 5
(d) 4

ANSWER KEY

Q1.(b) Q2.(a) Q3.(b)

CATSE-2025

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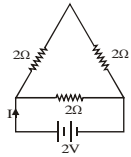
NOTE :-

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10TH CLASS**SCIENCE**

Q.1 What is the current in the circuit shown (Fig.) –

- (a) 1.5 A
(b) 0.5 A
(c) 2.5 A
(d) none of these



Q.2 The primary ore of aluminium is which of the following?

- (A) Kaolinite
(B) Bauxite
(C) Malachite
(D) Cinnabar

Q.3 Which of the following statement is true about brain?

- (I) The main thinking part of brain is hind brain.
(II) Centres of hearing, smell, memory, sight etc located in fore brain.

(III) Involuntary actions like blood pressure, respiration are controlled by the medulla in the hind brain

(IV) Cerebellum does not control posture and balance of the body

- (a) I and II
(b) I, II and III
(c) II and III
(d) III and IV

ANSWER KEY

Q1.(a) Q2.(b) Q3.(c)

SOCIAL SCIENCE

Q.1 Germany was unified in _____.

- (a) 1870
(b) 1871
(c) 1872
(d) 1873

Q.2 Which two languages are generally spoken in Belgium?

- (a) French & English

- (b) Dutch and English
(c) French and Dutch
(d) Dutch and Sinhala

Q.3 Railway is an example of:

- (a) Private Sector
(b) Public Sector
(c) Secondary Sector
(d) None of these

ANSWER KEY

Q1.(b) Q2.(c) Q3.(b)

MATHEMATICS

Q.1 A 1.5m tall student walk with his family and observe a banner of CATSE (organised by Career Academy Nahan) situated at top of 30m high building at some distance from that building. The angle of elevation from his eyes to the banner of

CATSE is 30° and increase to 60° , as he walks towards the building. Then the distance he walks toward the building is

- (a) $20\sqrt{3}$
(b) $18\sqrt{3}$
(c) $19\sqrt{3}$
(d) None

Q.2 In the given diagram O is the centre of the circle and CD is a tangent. $\angle CAB$ and $\angle ACD$ are supplementary to each other $\angle OAC = 30^\circ$. Find the value of $\angle OCB$:

- (A) 30°
(B) 20°
(C) 60°
(D) None of these

