

KVS RO BHOPAL  
SCIENCE (CLASS VIII)  
SEP MONTH CBT QUESTIONS WITH ANSWER KEY

**CASE STUDY 1** Friction is caused by the irregularities on the two surfaces in contact. Even those surfaces which appear very smooth have a large number of minute irregularities on them. Irregularities on the two surfaces lock into one another when we attempt to move any surface, we have to apply a force to overcome interlocking.

1. Which option describes a situation where resistance accompanies the applied force?

- (A) while kicking a football
- (B) while opening the door
- (C) while lifting the bucket
- (D) while burning a matchstick

ANS- (D)

Feedback for incorrect answers

While burning a matchstick the resistance accompanies the applied force.

2. A student designed a model of a car ramp. The student wants to cover the ramp so that the car could stop after travelling a small distance. Which material would be the best to cover the ramp?

- (A) Newspaper
- (B) Glossy paper
- (C) Sand paper
- (D) Butter paper

ANS- (C)

Feedback for incorrect answers

Sand paper is rough so it has more irregularities so force of friction is greater.

3. The image shows a person rowing a boat over a river.



- (a) 1, boat because of the river
- (b) 1, boat because of the person
- (c) 2, boat because of the river and the person because of air
- (d) 2, boat because of air and river and the person because of air

ANS- (D)

Feedback for incorrect answers

While rowing a boat it experiences drag by air and water of the river and the person experiences frictional force by air.

4. A student hears a noise as he opens and closes his bedroom door. What should be done to reduce the noise?

- (A) Open the door slowly
- (B) Apply the lubricants in the door joints
- (C) Change the position of door's handle
- (D) Apply some water on the joints

ANS- (B)

Feedback for incorrect answers

Lubricants reduce friction because they minimize the interlocking of irregularities at some extent.

5. A student observes ball bearings in the slide track of his drawer as shown.



- (A) It reduces friction
- (B) It increases the surface area
- (C) It reduces the mass of the drawer
- (D) It increases the interlocking between the surfaces

ANS- (A)

Feedback for incorrect answers

Ball bearings are an example of rolling friction which reduces friction.

## CASE STUDY 2

The table lists some events.

- A. Tilting of soil for sowing seeds on a deserted land.
- B. Cutting of trees for making table and chairs.
- C. Establishing forest on a land that had no trees before.
- D. Clearing of forest for building houses.

6. Which of these events will lead to deforestation?

- (A) A and B
- (B) C and A
- (C) D and B
- (D) B and C

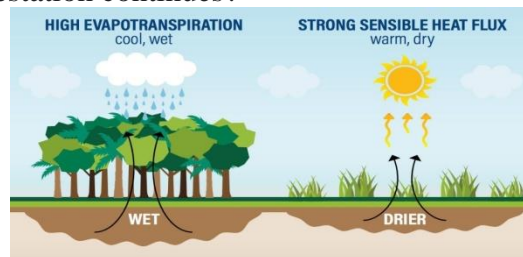
ANS- (C)

Feedback for incorrect answers

Cutting of trees lead to deforestation.

7. The image shows the effect of deforestation on water cycle.

What will likely to happen if deforestation continues?



- (a) Increase in oxygen level
- (b) Decrease in temperature
- (c) Increase in rainfall
- (d) Decrease in the level of groundwater

ANS- (D)

Feedback for incorrect answers

Deforestation leads to a decrease in the water holding capacity of the soil. The movement of water from the soil surface into the ground (infiltration rate) is reduced.

8. Many factories are built by cutting trees and clearing forests. What will be its likely effect on the nature?

- (A) Decrease in the number of wildlife
- (B) Sudden boost in the plant growth
- (C) Decrease in the level of groundwater
- (D) Increase in the percentage of land occupied with trees

ANS- (A)

Feedback for incorrect answers

Due to deforestation the natural habitat of animals will be destroyed.

9. Regions with more trees experience less soil erosion. How do the trees reduce soil erosion?

- (A) The roots of the trees hold the top layer of the soil firmly.
- (B) The trees absorb more sunrays which increases soil density
- (C) The trees store extra food in the soil which increases the soil content.
- (D) The trees add dead leaves into the soil which increases the soil quantity.

ANS- (A)

Feedback for incorrect answers

Deforestation is a major cause which leads to change in soil properties. Fewer trees result in more soil erosion.

10. The image shows some plants of a particular area.  
points



- (A) Flora
- (B) Fauna
- (C) Wild trees
- (D) Aquatic plants

ANS- (A)

Feedback for incorrect answers

The plants found in a particular area are termed flora.

KVS RO BHOPAL  
MATHS (CLASS VIII)  
SEP MONTH CBT QUESTIONS WITH ANSWER KEY

Q1 A School decided to award prizes to students for three values discipline, cleanliness and regularity in attendance. The number of students getting prize in the three categories are in the ratio 2:3:4 if the product of the ratio is 192 find the number of students getting prizes of each value



- (A)6,9,12
- (B)8,12,16
- (C)4,6,8
- (D)non of these

ANS- (C)

Feedback for correct answers

the number of prizes for disciplines =  $2x$

the number of prizes for cleanliness =  $3x$

the number of prizes for attendance =  $4x$

$$2x.3x.4x= 192$$

$$24 \times 3=192$$

$$X3=8$$

$$X=2$$

No of prizes are 4,6,8

Q2 Which of the following is a Hardy -Ramanujan Number



- (A)1729
- (B)1279
- (C)1927
- (D)1972

ANS- (A)

Feedback for correct answers

Hardy Ramanujan no can be expressed as sum of two cubes in two different ways  $1\text{cube} + 12\text{ cube} = 1729$  ,  
 $9\text{cube} + 10\text{ cube} = 1729$

Q 3 The cube of a number ending in 7 will end in the digit

- (A)1
- (B)2
- (C)3
- (D)4

ANS- (C)

Feedback for correct answers

$7 \times 7 = 49$  ,  $9 \times 7 = 63$  and unit place is 3

Q4 The cube root of -125 is

- (A)5
- (B)-5
- (C)15
- (D)-15

ANS- (B)

Feedback for correct answers

$-5 \times -5 \times -5 = -125$  SO THE CUBE ROOT OF -125 IS -5

Q5 The cube root of 1.331 is

points

(A)11

(B).11

(C)1.1

(D)11.1

ANS- (C)

Feedback for correct answers

$$1.1 \times 1.1 \times 1.1 = 1.331$$

Q6 Which of the following is equal to its own cube

a) -1 b) -2 c) -3 d) 2

(A)-1

(B)-2

(C)-3

(D)2

ANS- (A)

Feedback for correct answers

$$-1 \times -1 \times -1 = -1$$

Q7 The cube root of 512 is

(A)3

(B)4

(C)6

(D)8

ANS- (D)

Feedback for correct answers

$$512 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2, \text{CUBE ROOT OF } 512 \text{ IS } 2 \times 2 \times 2 = 8$$

Q8 The smallest number by which 256 must be multiplied to obtain a perfect cube is

(A)3

(B)2

(C)5

(D)7

ANS- (B)

Feedback for correct answers

$256 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 2 \text{ TO THE POWER } 8$ , SO 2 IS TO BE MULTIPLIED FOR MAKING IT A PERFECT CUBE

Q9 Which of the following is not a perfect cube



(A)3375

(B)2025

(C)400

(D)8000

ANS- (C)

Feedback for correct answers

A PERFECT CUBE CAN NOT HAVE 1 OR 2 ZEROS AT THE END

Q10 The cube of any odd number is always



(A)Odd number

(B)even number

(C)even or odd

(D)Rational number

ANS- (A)

Feedback for correct answers

ODDXODD=ODD AND AGAIN ODD X ODD= ODD

KVS RO BHOPAL  
ENGLISH(CLASS VIII)

SEP MONTH CBT QUESTIONS WITH ANSWER KEY

**1. Which books did Bepin Choudhury buy every week?**

A. Thrillers

B. Crime stories

C. Ghost stories

D. All of these

ANS- (D)

Feedback for incorrect answers

He had to buy at least five books at a time to last him through the week. He lived alone, was not a good mixer, had few friends, and didn't like spending time in idle chat.

**2. What was written above the name in the letter?**

(i) A gift from Ranchi

(ii) Urgent and confidential

(iii) Both (i) & (ii)

(iv) None of these

ANS- (ii)

Feedback for incorrect answers

Chunnilal wanted to teach a lesson to Bepin Choudhary as he believed that affluence has brought a change in Bepin's behaviour.

**3. The King With Sword In his hand Said that he would hire the poet with \_\_\_\_\_.**

(a) Gold Coins

(b) Grains

(c) His Power

(d) None of these

ANS- (c)

Feedback for incorrect answers

In order to emphasize on the power of the king, the poet states that he arrives with sword in hand. A sword is the symbol of power.

4. Who is bargaining in this poem ?

(a) The speaker

(b) The child

(c) The king

(d) The old man

ANS- (a)

Feedback for incorrect answers

The poem describes the speaker who is in search of work. On his way he encounters different kinds of people who wanted to hire him. He looks for a suitable bargain in exchange for a job without losing his freedom.

5. In the lesson “The Selfish Giant” when the children returned in the garden, the trees covered themselves with \_\_\_\_\_.

(a) snow

(b) dry leaves

(c) blossoms and birds

(d) none of these

ANS- (c)

Feedback for incorrect answers

The trees covered themselves with blossoms and birds as they were glad to have the children back.

6. The giant was rewarded for his \_\_\_\_\_ points.

(a) service to the mankind

(b) kind-heartedness

(c) love for his garden

(d) none of these

ANS- (b)

Feedback for incorrect answers

The selfish giant changed to a kind hearted person by allowing the children to play in his garden and loving them. The giant was blessed to live in paradise after his death.

7. The meaning of the word ‘feeble’ is?

(a) Strong

(b) Hard

(c) Weak

(d) Powerful

ANS- (c)

Feedback for incorrect answers

Weak means not strong enough to endure strain, pressure or strenuous effort.

8. Give the meaning of the given idiom:

“vanished into thin air”

a) to fly in the air

b) disappeared in a mysterious way

c) to paint

d) to make the air thin

ANS- (b)

Feedback for incorrect answers

The meaning is self-explanatory that is to disappear suddenly. An idiom is an expression whose meaning is different from the meanings of the individual word in it.

9. Fill the given blank with correct answer:

There are some people.....are afraid of failures.

a) that

b) who

c) which

d) those

ANS- (b)

Feedback for incorrect answers

The answer is self explanatory.

10. The Princess September always kept her windows open day and night \_\_\_\_\_.

(a) so that the little bird could come into her room anytime.

(b) because she need fresh air

(c) because she wanted to see outside.

(d) none of these

ANS- (a)

Feedback for incorrect answers

The Princess September always kept her windows open day and night so that the little bird could come into her room anytime. This was very good for her and so she grew very beautiful.

KVS RO BHOPAL  
SOCIAL SCIENCE (CLASS VIII)  
SEP MONTH CBT QUESTIONS WITH ANSWER KEY

Q1 The Champaran movement was against

(a) Peasants

(b) East India Company

(c) The oppressive attitude of the planters

(d) None of the above

ANS- (c)

Feedback for correct answers

Champaran movement is the movement of planters.

Q 2 Indigo production came down in Bengal in

(a) 1850

(b) 1852

(c) 1855

(d) 1859

ANS- (d)

Feedback for correct answers

Indigo production fell down in 1859

Q3 Who had developed the Munro system ?

(a) Captain Alexander

(b) Holt Mackenzie

(c) Thomas Munro

(d) None of these

ANS- (c)

Feedback for correct answers



Thomas Munro developed minro system

Q4The Company was appointed as the Diwan of Bengal in

(a)1762

(b)1763

(c)1764

(d)1765

ANS- (d)

Feedback for correct answers

Company appointed Diwan of Bengal in 1765

Q5 The Bastar Rebellion in central India broke out in

(a)1900

(b)1910

(c)1920

(d)1940

ANS- (b)

Feedback for correct answers

Baster rebellion broke out in 1910

Q6The Khondas lived in

(a)Karnataka

(b)Madhya pradesh

(c)Bihar

(d)Odisha

ANS- (d)

Feedback for correct answers

Khondas lived in odisha

Q7 What type of lives did the herders live ?

(a)Sophisticated

(b)Settled

(c)Nomadic

(d)None of these

ANS- (c)

Feedback for correct answers

Herders lived nomadic life

Q8 What is the System Consisting of Courts which interpret the constition and award judgement ?

(a)Judiciary

(b)Parliament

(c)Police

(d)Legislature

ANS- (a)

Feedback for incorrect answers

Judiciary interprets the constitution and award judgement.

Q9 Judiciary in india resolves the disputes between

(a)State and State

(b)State and Citizen

(c)Citizen and Citizen

(d)All the above

ANS- (d)

Feedback for correct answers

Judiciary in india resolves the disputes between state and state ,state and citizen,citizenand citizen .

Q10 Who is the final interpreter of our Constition ?

(a)Suprime Court

(b)Government

(c)Executive

(d)Legislative

ANS- (a)

Feedback for correct answers

Supreme Court is the final interpreter of our constitution

\*\*\*The End\*\*\*