

Class: VII

Mathematics

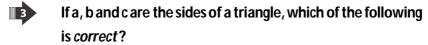
The measurements of  $\triangle DEF$  are EF = 8.4 cm,  $\angle E = 103^{\circ}$ and  $\angle F = 85^{\circ}$ . Which of the following is correct?

- (A)  $\triangle DEF$  can be constructed.
- (B)  $\Delta DEF$  is an obtuse angled triangle.
- (C)  $\Delta$ DEF cannot be constructed.
- (D)  $\Delta$ DEF is an acute angled triangle.
- The table shows the number of hours Pavan studies on different days of a week.

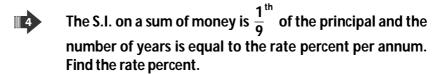
Mon	Tue	Wed	Thurs	Fri	Sat
3	4	2	5	4	3

How many hours per day does he study on an average?

- (A) 3.5 hours
- (B) 3 hours
- (C) 4 hours
- (D) 4.5 hours



- (A) a-b>c
- (B) c > a + b
- (C) c = a + b
- (D) b < c + a



- (A)  $2\frac{1}{3}\%$  (B)  $3\frac{1}{3}\%$  (C)  $4\frac{1}{2}\%$  (D)  $3\frac{1}{2}\%$





In a coconut grove, (x+2) trees yield 60 coconuts per year, x trees yield 120 coconuts per year and (x-2) trees yield 180 coconuts per year. If the average yield per year per tree is 100, find x.

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

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**Physics** 

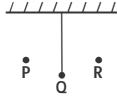


#### A faster moving object covers

- (A) less distance in more time.
- (B) more distance in more time.
- (C) less distance in less time.
- (D) more distance in less time.



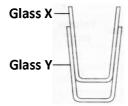
Which of these represents one complete oscillation of the pendulum shown below?



- (A) PQR
- (B) PQQP
- (C) QRRP
- (D) PQR RQP



The two glasses X and Y are stuck together as shown below.



#### How can the glasses be separated?

- (A) Heating both the glasses
- (B) Soaking glass Y in ice cubes
- (C) Pouring hot water into glass X
- (D) Pouring hot water over glass Y





#### Which surface cannot produce a clear image of an object?

- (A) Rough
- (B) Ideal
- (C) Smooth
- (D) Curved



Which of these effects can be produced by an electric current?

- (1) Chemical
- (2) Heating
- (3) Lighting
- (4) Magnetic
- (A) 1 and 2 only
- (B) 1, 2 and 3 only
- (C) 2, 3 and 4 only
- (D) 1, 2, 3 and 4

#### Class: VII

Chemistry

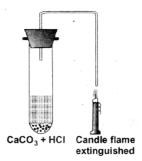


## Which solution has the highest concentration of hydroxide

- ions?
- (A) Solution of pH 3
- (B) Solution of pH 5
- (C) Solution of pH 7
- (D) Solution of pH 12



What causes the candle flame to get extinguished?



- (A) Evolution of O<sub>2</sub> gas
- (B) Evolution of CO<sub>2</sub> gas
- (C) Formation of Ca(OH)<sub>2</sub>
- (D) Formation of CaCl<sub>2</sub>



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#### Which of these is a chemical change?

- (A) A substance with different chemical properties is formed.
- (B) A substance in a different state but similar chemical properties is formed.
- (C) The molecules of the substances do not undergo any change.
- (D) A substance with a different shape and size but similar chemical properties is formed.

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#### Which action is the best to do during heavy lightning?

- (A) Lying on the ground in an open place
- (B) Going into the nearest water body
- (C) Staying indoors away from metallic doors or windows
- (D) Standing under a tall tree

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#### Wind currents occur across the globe due to

- (A) the rotation of the earth.
- (B) change in season.
- (C) uneven heating between the equator and poles.
- (D) gravitational pull of the sun.

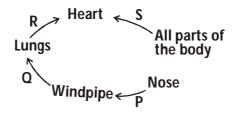


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Biology



The diagram given shows the flow of oxygen in our body.



Which of the labelled arrows is drawn INCORRECTLY?

(A) P

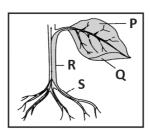
(B) Q

(C) R

(D) S



Where does most of the transpiration take place in the given figure ?



(A) P

(B) R

(C) Q

(D) S





The following statements describe how the transport system in a plant works.

- P Xylem tubes carry water and mineral salts to other parts of the plant
- Q The leaves make food in the presence of sunlight
- R The leaves receive water and mineral salts
- S Phloem tubes transport food to other parts of the plant
- T Root hairs absorb water and mineral salts from the soil

#### Which of these is a correct sequence?

- (A)  $P \rightarrow T \rightarrow Q \rightarrow R \rightarrow S$
- (B)  $T \rightarrow P \rightarrow R \rightarrow Q \rightarrow S$
- (C)  $P \rightarrow R \rightarrow Q \rightarrow S \rightarrow T$
- (D)  $R \rightarrow Q \rightarrow P \rightarrow S \rightarrow T$



A student identified the following characteristics in an animal.

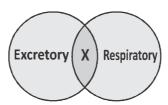
- i. Able to live both on land and in water.
- ii. Breathes through skin and lungs.
- iii. Use webbed toes for locomotion.

#### Choose the suitable title for the given description.

- (A) Terrestrial
- (B) Aquatic
- (C) Amphibian
- (D) Arboreal



#### Identify organ 'X'.



(A) Skin

(B) Heart

(C) Lungs

(D) Kidneys



#### Class : VII

#### **General** Awareness



#### Which is the capital city of Russia?

- (A) Moscow
- (B) Sydney
- (C) Samara
- (D) Damascus



#### The given logo belongs to which company?



(A) Audi

- (B) Maruti Suzuki
- (C) Honda
- (D) Volvo



# Who wrote the National Anthem of Bangladesh "Amar Shonar Bangla"?

- (A) Rabindranath Tagore
- (B) Bankim Chandra Cahttopadhyay
- (C) Kazi Nazrul Islam
- (D) Syed Ali Ahsan

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#### What does the acronym CBI stand for ?

- (A) Crime Bureau of Investigation
- (B) Central Branch of Investigation
- (C) Crime Branch Investigation
- (D) Central Bureau of Investigation

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# Chemotherapy is mainly used to treat which of these diseases?

- (A) Asthma
- (B) Tuberculosis
- (C) Cancer
- (D) Polio