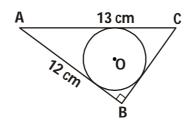




ABC is a right - angled triangle with $\angle B = 90^\circ$,

AB = 12 cm and AC = 13 cm. A circle with centre O is inscribed inside the triangle.



Find the radius of the circle.

(A) 8	cm	(B)	7 cm
(C) 1	cm	(ח)	2 cm

(C) 4 cm	(D)	2 cm
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If $\sin\theta = -\frac{1}{2}$, what are the respective possible values of θ between 0 and 2π ? (A) 210° and 300° (B) 240° and 330°

(A)	210° and 300°	(D)	240° and 330°
(C)	240° and 300°	(D)	210° and 330°



The remainder when a number is divided by 143 is 31. What

is the remainder when the same number is divided by 11? (A) 5 (B) 7 (C) 6 (D) 9



The prime factorization of two numbers are

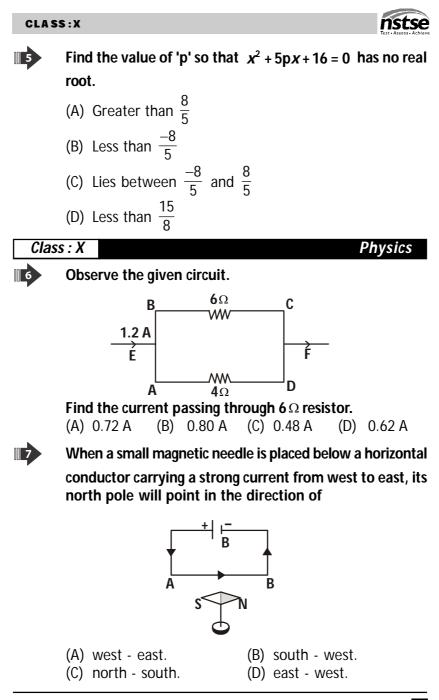
 $3^2 \times ~7^3 \times ~11$ and 3 $\times ~7^2 \times ~11^3 \times ~17.$

Which of the following is a common factor of the numbers?

(A)	1683	(B)	5831
$\langle \alpha \rangle$	1000		F 00

(C) 1089 (D) 539

Sample Questions



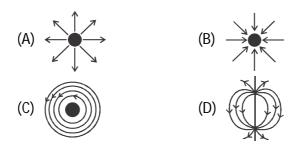
Sample Questions

CLASS:X



8

Which field pattern given below is valid for both electric and magnetic fields ?





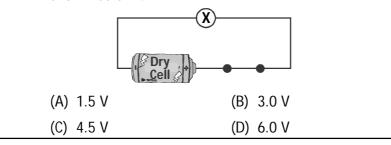
Resistance is the ratio of the \underline{X} in volts across the component to the \underline{Y} passing through, measured in \underline{Z} .

Which key has the three words that complete the sentence correctly ?

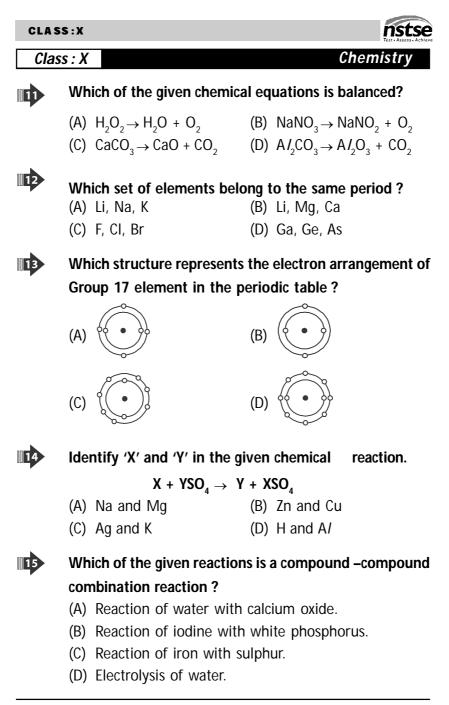
	х	Y	Z
(A)	Current	Potential difference	Volts
(B)	Potential difference	Current	Amperes
(C)	Potential difference	Power	Watts
(D)	Current	Voltage	Volts



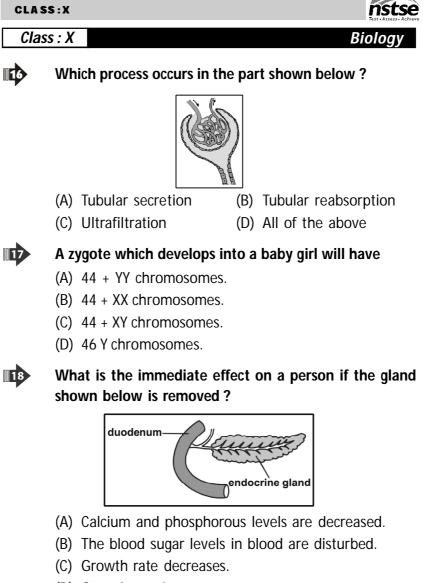
What is the potential difference across bulb X in the circuit shown below ?



Sample Questions



Sample Questions



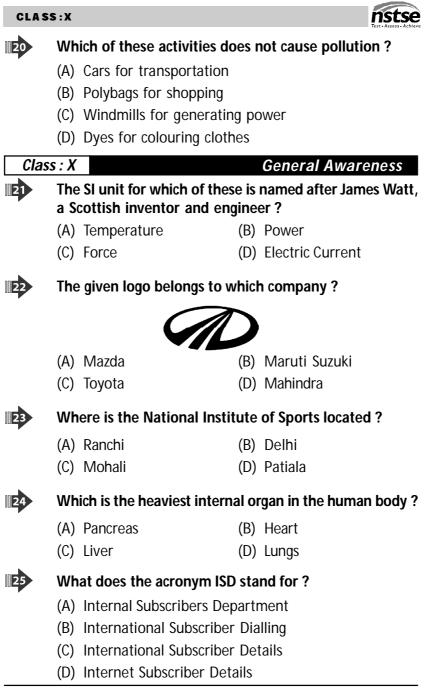
(D) Growth rate increases.



Which blood group is known as the universal recipient ?

(A) AB (B) O (C) A (D) B

Sample Questions



Sample Questions