

## SCIENCE

- 1. Distance time equation for uniform accelerated motion is (a)  $S = ut + \frac{1}{2} at^2$ (b) S = u + at(c)  $S = u + at^2$ (d)  $S = ut^2 + \frac{1}{2}at^2$
- Unit of momentum is
  (a) kg ms<sup>-1</sup>
  (b) kg m
  (c) ms<sup>-1</sup>
  (d) kg s<sup>-1</sup>
- 3. Pressure is (a) Thrust/area (b)  $\frac{Area}{Thrust}$ (c)  $\frac{mass}{Area}$ (d) None of these

4.

Atomicity of KM<sub>n</sub>O<sub>4</sub> is (a) 4 (b) 5 (c) 6 (d) 7 Molecular mass of "**X**" is 106, **X** can be (a) CaCo<sub>3</sub> (b) So<sub>3</sub> (c) Na<sub>2</sub> CO<sub>3</sub> (d) NaCl

5.

 Bose Einstein condensate have
 (a) Very low kinetic energy
 (b) Low kinetic Energy
 (c) High kinetic energy

(d) Highest kinetic energy

- 7. Which of the following are examples of prokaryotes?
  (a) Algae
  (b) Fungi
  (c) Bacteria
  (d) Protozoa.
  - Water translocation in plant occur through (a) Xylem (b) Phloem (c) By both (d) Cambium

- 37. How many tringles are there in the figure given below?
  (a) 6
  (b) 7
  (c) 10
  (d) 8
- **38.** In the given question, you are given a figure (X) followed by four figures (a), (b), (c) and (d) such that (X) is embedded in one of them. Trace out the correct alternative.

Problem figure



**39.** In this question, problem figure is given on the left side of the line, which is incomplete. One, out of the four answer figures (a), (b), (c) and (d) can

complete the same. You have to locate the answer which if inserted in the problem figure without changing the direction completes the same.

## Problem figure



Answer figure



40. Choose the correct mirror image of the figure (X) form amongst the four alternatives (a), (b), (c) and (D) given along with it.



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8.

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## **MENTAL ABILITY**

31. In a certain code, 'FORGET' is written as 'DPPHCU'. How would 'DOCTOR' be written in that code?
(a) BPAUPS
(b) EMDRPP
(c) BPAUMS
(d) BRARPP

- 32. 17, 25, 41, 65, 97, ...
  (a) 147
  (b) 100
  (c) 137
  (d) 98
- 83. Ram is the brother of Deepak, Sunita is sister of Rajesh. Deepak is the son of Sunita. How is Ram related to Sunita?
  (a) Son
  (b) Brother
  (c) Nephew
  (d) Father

**34.** Insert the missing letter or numerical value in the given question

88

?

11

- 35. Rajni is 6th from either end of a row of girls. How many girls are there in that row?
  (a) 10
  (b) 12
  (c) 13
  (d) 11
- 36. If + means ×, means ÷, × means - and ÷ means +, then the value of 32÷8-4×12+4 is
  (a) -14
  (b) -41
  (c) -40
  (d) -12
- 9. Which of the following is not a bacterial disease? (a) Cholera (b) Tuberculosis (c) Anthrax (d) Influenza. Plasmodium is an 10. example of: (a) Protozoa (b) Virus (c) Worm (d) Bacteria. SOCIAL SCIENCE Slavery was finally 11. abolished in French colonies in..... (a) 1748 (b) 1749 (c)1848 (d) 1794 Winter place was the 12.
- Winter place was the residence of
  (a) Trotsky
  (b) Lenin
  (c) Tsar
  (d) kerenskii

- 13. In Which sea Lakshadweep Island are located?
  (a) Bay of Bengal
  (b) Arabian Sea
  (c) Red Sea
  (d) Mediterranean Sea
- 14. The old alluvium on the slightly elevated terraces is known as(a) Bhangar
  - (b) Terai
  - (c) Khaddar
  - (d) Bhabar
- 15. Rivers that has water throughout the year is called
  (a) Depositional river
  (b) radial river
  (c) perennial river
  (d) erosional river
- 16. Identify the country which practices unfair means in the elections.
  (a) Russia
  (b) Mexico
  (c) Zimbabwe
  (d) China

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17.	The correct meaning of the draft is (a) final document (b) preliminary version of a document (c) unofficial document (d) legal document		MATHEMATICS	
		21.	The value of $(21 + 2^2)^{\frac{1}{2}} + (72 + 3^2)^{1/4}$ is (a) 14 (b) 8 (c) 28 (d) 34	
18.	The boundaries of a constituency is decided on the basis of <b>(a) Population</b> (b) Culture (c) Language (d) number of village	22.	If $x - 3$ is a factor of $x^2 - ax - 15$ , then $a =$ (a) $-2$ (b) 5 (c) $-5$ (d) 3	
19.	"Sarva Siksha Abhiyan" is related to <b>(a) Education</b> (b) health (c) Technology (d) Income	23.	The perpendicular distance of the point P(4,3) from y- axis is (a) 4 (b) 3 (c) 5 (d) none of these	
20.	Who is considered as poor? (a) A rich landlord (b) A businessman <b>(c) A landless labourer</b> (d) A teacher	24.	The graph of the equation $2x + 3y = 12$ is a line which meets the x axis at the points (a) (4,0) (b) (0,4) (c) (0,6) (d) (6,0)	

**25.** In Fig,  $AB \perp BE$  and  $FE \perp BE$ . If BC = DE and AB = EF, then  $\triangle ABD$  is congruent to



26. Which of the following irrational? (a)  $\sqrt{\frac{4}{9}}$ (b)  $\frac{4}{5}$ (c)  $\sqrt{7}$ (d)  $\sqrt{81}$ 

27. The value of  $\sqrt{5 + 2\sqrt{6}}$ , is (a)  $\sqrt{3} - \sqrt{2}$ (b)  $\sqrt{3} + \sqrt{2}$ (c)  $\sqrt{5} + \sqrt{6}$ (d) none of these 28. If  $f(x-2) = 2x^2 - 3x + 4$ , then the remainder when f(x) is divided by (x - 1), is (a) 3 (b) 9 (c) 13 (d) -13

**29.** In Fig, if  $l_1 || l_2$ , what is x + y in terms of w and z?



- (a) 180 w + z
  (b) 180 + w z
  (c) 180 w z
  (d) 180 + w + z
- 30.  $(a + b + c)^2 + (a + b c)^2 + 2(c^2 a^2 b^2 2ab)$  is equal to (a)  $4c^2$ (b)  $4a^2$ (c)  $4b^2$ (d)  $(a + b + c)^2$

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