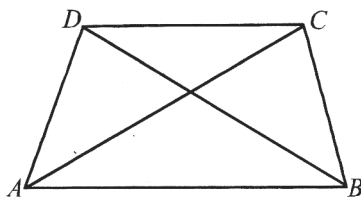
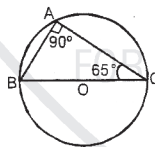


SCIENCE

- Distance of the moon from the earth is 4×10^8 m. The time taken by a radar signal transmitted from the earth to reach the moon is
(1) 5.2 s (2) 1.3 s (3) 2.6 s (4) 0.70 s
- The work done by a body is directly proportional to:
(1) force acting on the body
(2) displacement produced in the body
(3) mass of the body
(4) both (1) and (2)
- Nucleus model of the atom was proposed by :
(1) Thomson (2) Neils Bohr
(3) Moseley (4) Rutherford
- The most common type of ground tissue is
(1) Epidermis (2) Collenchyma
(3) Sclerenchyma (4) Parenchyma
- A branch of biology which deals with the identification, nomenclature and classification of organisms is called
(1) Morphology (2) Ecology
(3) Taxonomy (4) Phytogeography

MATHEMATICS

- Solve for x and y : $x^y = y^x$ and $y = x^2$
(1) $x = 0, y = 0$ (2) $x = 0, y = 2$
(3) $x = 1, y = 2$ (4) $x = 2, y = 4$
- ABC is a right angled triangle in which $\angle A = 90^\circ$ and $AB = AC$. Measures of $\angle B$ and $\angle C$ will be
(1) $60^\circ, 30^\circ$ (2) $30^\circ, 60^\circ$
(3) $45^\circ, 45^\circ$ (4) none of these
- The dimensions of a cuboid are in the ratio of 1 : 2 : 3 and its total surface area is 88 cm^2 then its lateral surface area is :
(1) 70 cm^2 (2) 72 cm^2 (3) 74 cm^2 (4) 76 cm^2
- In the given figure, $\angle ABC$ is inscribed in a circle with centre O. If $\angle ACB = 65^\circ$, find $\angle ABC$.
(1) 25°
(2) 35°
(3) Cannot be determined
(4) None of these
- In the fig. given below, ABCD is a quadrilateral in which AB is the longest side and CD is the shortest side. Then



- $\angle C < \angle A$ (2) $\angle C > \angle A$
- $\angle C = \angle A$ (4) None of these

MENTAL ABILITY

- Directions:** In each of the following questions, a number series is given with one term missing. Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.
1, 2, 3, 6, 9, 18,?....., 54
(1) 18 (2) 27
(3) 36 (4) 81
- If the first three letters of the word COMPREHENSION are reversed, then the last three letters are added and then the remaining letters are reversed and added, then which letter will be exactly in the middle ?
(1) H (2) N (3) R (4) S
- Directions :** In each of the following question there is a certain relation between two given numbers on (LHS) of :: and one number is given in (RHS) of :: while another number is to be found out at the ? mark of given alternatives having the same relation with this number.
If DRIVER = 12, PEDESTRIAN = 20, ACCIDENT = 16, then CAR = ?
(1) 3 (2) 6 (3) 8 (4) 10
- In each of the following questions one statement and two assumptions (I) and (II) are given. Decide which of the assumptions is implicit in the statement. Give answer :
(1) If only assumption (I) is implicit
(2) If only assumption (II) is implicit
(3) If either (I) or (II) is implicit
(4) If neither (I) nor (II) is implicit
Statement : "If you break discipline of the school, you will be expelled from the school" - a teacher told to a student
Assumptions:
(I) All students do not like discipline.
(II) Examination result of the school will be better.
- In each of the following questions two statements (I) and (II) are given. There may be cause and effect relationship between the two statements. Read both the statements and mark your answer as.
(1) If statement (I) is the cause and statement (II) is its effect.
(2) If statement (II) is the cause and statement (I) is its effect.
(3) If both the statements (I) and (II) are independent causes.
(4) If both the statements (I) and (II) are effects of independent causes.
Statement (I) : It is the target of the civic committees of the city to reduce the air pollution 20% in the next two months.
Statement (II) : The number of asthma cases in the city is constantly increasing.

ANSWER KEY

1	-	2	6	-	4	11	-	2
2	-	4	7	-	3	12	-	4
3	-	4	8	-	2	13	-	2
4	-	4	9	-	1	14	-	4
5	-	3	10	-	2	15	-	4

