| - | - | | - | |
|-----|----|---|---|---|
| - | 63 | | | × |
| SVL | 87 | - | п | - |

Q1. Find the value of x, if

1.
$$2^x + 2^x + 2^x = 192$$

Ans.

2.
$$2^3 + 2^x = 2^4$$

Ans.____

$$3. \quad 8^{255} = 32^{\times}$$

Ans.

Ans._____

5.
$$4\left(\frac{10}{x}\right)^2 - 6\left(\frac{10}{x}\right)^2 + 3\left(\frac{10}{x}\right)^2 = 1$$

Ans.____

Q2. TRUE OR FALSE.

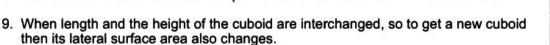
1. We cannot find discount when discount percent is given.

3.
$$(x + a) (x + b) = x^2 + (a + b) x + ab$$
.

4.
$$(a + b) (a - b) = a^2 + b^2$$

5. A cone is a polyhedron.

- 6. A glass is cylindrical in shape.
- 7. All the congruent figures are equal in area.
- 8. Total surface area of a cuboid is equal to lateral surface area $+ 2 \times$ area of base.



10. Very small numbers can be expressed in standard form using negative exponents.

Q3. One word or One sentence.

1. A car bought at 54000, its value depreciates at the rate of 5% per annum, find its value after one year.

Ans. _____

2. Write the formula of profit %

Ans. _____

3. Solve the expression $9x(3x^2+2)$ for x = 5.

Ans.

4. Find the product of (6.8m - 4.6n) and (4.6n + 6.8m)

Ans

5. If a cube is 3-dimensional figure, then how many dimensions does a cylinder has?

Ans.

ENGLISH

| Q1. F | II in the blanks in the follow | ring sentences choosing s | uitable adverbs from th | ne list giv | |
|-------|---|------------------------------|-------------------------|-------------|--|
| h | | day, always, when, qui | | | |
| 1. B | ring the box of chalk | | | | |
| 2. T | nis old building was built man | y years | _ | | |
| 3. T | ne teacher does not like him t | ecause he is | late to school. | | |
| 4. H | is uncle smokes | much. | | | |
| 5. W | e went to see a film | | | | |
| 6. H | e has visited us only | | | | |
| 7 | does you | ur school begin? | | | |
| 8. T | ne first Test match between Ir | ndia and Pakistan will begin | | | |
| 9. Y | our answer is | right. | | | |
| 10. V | Vood flo | oats on water. | | | |
| Q2. C | omplete the given degrees t | able. | 2 8 | | |
| | POSITIVE | COMPARATIVE | SUPERLATIVE | | |
| | Sweet | | | | |
| | White | | Whitest | | |
| | Big | | | | |
| | Busy | | | | |
| | | | Heaviest | | |
| | | | Thinnest | | |
| | Difficult | More Difficult | | | |
| | Learned | | | | |
| | Industrious | | Most Industrious | | |
| | Hot | | | • | |
| Q3. F | ill in the blanks with the no | ın forms of the verbs giver | in the brackets. | | |
| | fell down f | | | (work) | |
| | | | | (invite) | |
| | 2. He sent an to his friends to attend his birthday party. (invite 3. Edison was the of the gramophone. (invert | | | | |
| | 4. He wrote an for fee concession. (apply) | | | | |
| | ne of this h | | | (own) | |

GENERAL KNOWLEDGE

Q1. Read the following descriptions and identify the forms of martial arts. Choose your answer from the help box.

| Help Box | Kendo | Karate | Taekwondo | Gatka | Sumo wrestling |
|-------------------------------------|----------------|----------------------|--|---------------------|--|
| a circular ring (| dohyo) or to t | ouch the grou | | nan the sol | e another wrestler out of es of the feet. The sport |
| | - | | ortial art used by the Sikl | | the Mughal forces. Today |
| B. Developed in K hand-to-hand o | | | ose principle is never to | attack first | and it does not teach |
| | (\$2) | | d self-defense in which eathing and shouts, are | | |
| | y and mentally | | rd-fighting based on trac activity that combines st | | anese swordsmanship. al arts values with sport- |
| | ssing letters | in the circles | s to get the full names | of the Inc | dian dishes. |
| 4. Punjabi | ⇒ | \sim | | \sim | \sim |
| 5. Madhya P | | | | \mathcal{G} | \bigcirc \bigcirc |
| 6. Andhra Pr | adesh ⇒ | $\cdot \bigcirc 0$ | | $\bigcirc \bigcirc$ | \bigcirc |
| 7. Oriya | = | $\cdot \bigcirc ($ | \bullet | | |
| 8. Gujarati | ₽ | \cdot \bigcirc (| $0 \times 0 \times 0$ | | |
| Q3. Write Wheth | er following | are True / Fa | ilse. | | |
| 1. Margaret Tha | tcher was the | British Prime | Minister from 1979 to | 1990. | □True □False |
| 2. Chrysanthem | um is the nati | onal emblem | of Japan. | | ☐True ☐False |
| 3. Madagascar i | s known as th | ne Land of Lil | es. | | □True □False |
| 4. Edward J. Sm | nith was the c | aptain of the | Titanic. | | □True □False |
| 5. The Zaire rive | r is also know | n as Nile rive | r. | | □True □False |
| 0-9&10 | | | 6 | | PYP-1 |

APTITUDE

| Q1. A, B, C, D, E and F are six members of a family. A is the mother of B, who is the husband of D. F is the brother of one of the parents of C. D is the daughter-in-law of E and has no siblings. C is the son of D. | | | | |
|--|----------------------|----------------|---------------------|--------------|
| 1. How is C related to | o A? | | | |
| □ Nephew | ☐ Son-in-la | w 🗆 | Grandson [| ☐ Father |
| 2. How is F related to | o D? | | | |
| ☐ Cousin | ☐ Brother-i | n-law 🔲 l | Brother [| ☐ Father |
| 3. How is E related to | APRE 43 | | | |
| ☐ Mother | ☐ Mother-in | n-law | Father [| Sister |
| 4. If F is married to G | G, then how is G re | elated to B? | | |
| ☐ Sister | ☐ Sister-in- | law 🔲 | Cousin [| |
| How many male m | nembers are there | in the family? | | |
| ☐ Two | ☐ Three | | Four [| ☐ Five |
| Q2. What should com | ne in place of que | estion mark (1 | ?) in following num | nber series. |
| 1. 36 31 27 | 24 22 ? | | | |
| □18 | □ 23 | | 20 [| ⊒ 21 |
| 2. 22 23 27 | 36 52 77 | ? | | |
| □ 111 | □ 109 | | 113 [| □117 |
| 0.000 | n t traka | | \$2000 sa | |
| | 62 ? | <u></u> | - | |
| □ 77 | □ 82 | | 72 [| 87 |
| 4. 1728 1000 | 512 216 64 | ? | | |
| □ 6 | □ 4 | | 27 [| □ 8 |
| 5. 108 228 28 | 8 318 333 | 340.5 ? | | |
| □ 344.25 | □ 343.25 | | 344.75 [| □ 353.25 |
| Q3. Find the odd one out from the given list: | | | | |
| Q3. Find the odd one | out ironi tile givi | en nst. | | |
| 1. Big | Tall | Large | ☐ Bulky | ☐ Massive |
| 2. | Jacket | Sweater | r Jersey | Pulllover |
| 3. Cabin | Deck | Quarter | s Compartn | ments Berth |
| 4. House | Residence | Home | Dwelling | Building |
| 5. Cruise | Holiday | ☐ Vovage | Passage | ☐ Trip |