

1. **(B) onerous....dissuade**

Because of the profit potential the designers will be highly encouraged i.e they will not be dissuaded. Looking through the options one can find out that word dissuade seems to be a good match for second blank. Now let's see if onerous (burdensome) could fit in. The burdensome requirements do not discourage designers due to profit potential.

2. **(D) step**

syndrome is step by step symptoms for something to happen. Step also indicate increase or decrease in a particular degree. Hence most close in meaning.

3. **(D) stated**

ULTERIOR means intentionally kept concealed. Hence most opposite word is stated.

4. **(B) unruly**

Intractable means not easily governed or managed. Unruly is synonym of this. All other words are of opposite meaning.

5. **(B) 6/11**

A fills the tank in 30min., B in 20min., C in 10min. In 1 min the portion of tank filled by three of them simultaneously is $(1/30 + 1/20 + 1/10)^{\text{th}}$ of the tank. Thus in 3 min, the portion of tank filled is $3 * (1/30 + 1/20 + 1/10) = 11/20$. Thus the proportion of solution R in the liquid = $3/10 / (11/20) = 6/11$

6. **(B) weak**

cliché, trite, banal are synonyms for hackneyed meaning, s an expression, idea, or element of an artistic work which has been overused to the point of losing its original meaning or effect or lacking originality or freshness. Weak does not fit to the meaning.

7. **(A) 246**

Number of zeros at the end of $n! = \left[\frac{n}{5} \right] + \left[\frac{n}{5^2} \right] + \left[\frac{n}{5^3} \right] + \dots$

$$\begin{aligned} n! = 999! &\Rightarrow [999/5] + [999/25] + [999/125] + [999/625] + [999/3125] \\ &= 199 + 39 + 7 + 1 = 246 \end{aligned}$$

8. **(C) Piyush did not score 3 runs**

Prashant conceded 1 run to Prem
Prabhu conceded 2 run to Prashant
Prince conceded 5 runs to Prabhu
Piyush conceded 4 runs to Prince
Prem conceded 3 runs to Piyush
Hence option (C) is not true.

9. **(B) 88 years**

Total interest = (principal amount (p) × simple interest(r) × time(t))

The sum becomes k times itself in 16 years.

Thus interest in 16 yrs = k – 1 times principal (as sum
= principal amount + interest)

$$\text{In 16 years, } (k - 1) * p = p * r * 16 \Rightarrow k - 1 = r * 16 \quad \dots (1)$$

$$\text{Again in 40 years, } (2k - 1) * p = p * r * 40 \Rightarrow 2k - 1 = r * 40 \quad \dots (2)$$

Solving $r = 1/8$ and $k = 3$

Let in t years it becomes 4k times.

$$(4k - 1) * p = p * r * t \Rightarrow (4 * 3 - 1) * 11 = t/8 \Rightarrow t = 88 \text{ yrs}$$

10. **(A) I-II-V**

For option (a), I-II-V are logically related as if all fish lay eggs and some birds are fish, then some birds lay eggs ... logically related

For option (B), all fish lay eggs and no mammal lays eggs then some fish cannot be mammal...logically not related

For option (C) some birds lay eggs and no mammal lay eggs then some mammals cannot be bird...logically not related.

Hence answer is (A)