

Option (d) is not correct because it extends beyond the scope of the passage.

27. (b)

Option (b) is the correct choice.

Assumption (1) is not valid because the passage states that there could be two reason for states to have more ministers: administrative needs and coalition politics. Based on this we cannot state that coalition politics definitely has a negative impact.

Assumption (2) is valid because the passage does mention 'more so in the larger ones'.

28. (a)

Option (a) is the correct choice.

Assumption (1) is valid because the passage mentions 'not to exist ... following certain rules of procedure'.

Assumption (2) is not valid because the passage does not suggest that it is the singular objective.

29. (b)

Option (b) is the correct choice.

Option (a) is not correct because it does not address the main point of the author.

Option (b) is correct because the passage clearly mentions that 'rule of law must be firmly established'.

Option (c) is not correct because the passage does not mention that society relies on smooth interactions alone, the passage specifically mentions what is required to achieve this.

Option (d) is not correct because it extends beyond the scope of the passage.

30. (a)

If the difference between C.I and S.I on a certain sum for 3 years of interest  $r\%$  is Rs. X, then the sum is given by

$$\text{Sum} = \frac{X \times (100)^3}{r^2 (300 + r)}$$

We have;

$$X = \text{Rs. } 200$$

$$r = 10\%$$

$$\text{Therefore, sum} = \frac{200 \times (100)^3}{(10)^2 (300 + 10)}$$

$$= \frac{200 \times 100 \times 100 \times 100}{10 \times 10 \times 310}$$

$$= \frac{2000000}{310} = \text{Rs. } 6451.6$$

Hence, Option (a) is correct answer.

31. (b)

Let the total profit =  $x$

The ratio of investment = 63000 : 56000 : 84000 = 63 : 56 : 84

On dividing by 7, we get 9 : 8 : 12

Now, sum of the ratios = 29

**Applying formula**

C's share = (C's ratio / sum of all three ratios)  $\times$  total profit

$$C's \text{ share} = (12/29) \times x = 54000$$

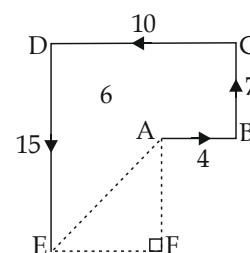
$$x = (54000 \times 29)/12$$

$$x = 130500$$

Hence, the total profit = 130500

32. (a)

In  $\triangle AEF$ ,  $AF = 15 - 7 = 8$



$$EF = 10 - 4 = 6$$

$$\therefore AE = \sqrt{8^2 + 6^2}$$

$$= \sqrt{64 + 36} = \sqrt{100}$$

$$AE = 10 \text{ km}$$

E is towards the south-west of A

Thus, option (a) is correct.