## **UGC NET 2018:**

Consider a vocabulary with only four propositions A, B, C and D. How many models are there for the following sentence ?

B v C

- A) 10
- B) 12
- C) 15
- D) 16

## Solution:

We know there are total  $2^4 = 16$  cases.

S.No	A	В	С	D	B v C
1	0	0	0	0	0
1 2 3	0	0	0	1	0
	0	0	1	0	1
4	0	0	1	1	1
4 5 6 7	0	1	0	0	1
6	0	1	0	1	1
	0	1	1	0	1
8	0	1	1	1	1
9	1	0	0	0	0
10	1	0	0	1	0
11	1	0	1	0	1
12	1	0	1	1	1
13	1	1	0	0	1

14	1	1	0	1	1
	1	1	1	0	1
16	1	1	1	1	1

From the table above, B V C is false. If B = C = 0.

There is 4 time B V C = 0.

So, 16 - 4 = 12 Ans.

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