

سوال ۱

$$\boxed{6!} \quad (1)$$

سوال ۶

$$\binom{6}{4} \times \frac{3!}{2} = 15 \times 3 = \boxed{45} \quad (1)$$

سوال ۵

$$(n-1)! = \boxed{5!} \quad (1)$$

سوال ۷

$$\binom{6}{3} \times 4! = 4 \times 24 = \boxed{96} \quad (1)$$

سوال ۳

$$\frac{(n-1)!}{2} = \frac{5!}{2} = \boxed{60} \quad (1)$$

سوال ۸

$\boxed{c d} \quad a b e f$
 \downarrow
 $\boxed{5!} \quad \checkmark \quad (1)$

سوال ۴

$$\binom{6}{4} \times 4! = 15 \times 24 = \boxed{360} \quad (1)$$

سوال ۹

$$2! \times 5! = \boxed{240} \quad \checkmark \quad (1)$$

سوال ۵

$$\binom{6}{4} \times 3! = 15 \times 6 = \boxed{90} \quad (1)$$

سوال ۱۰

درمبنی از حالات بعد از د تکرار دارد

$$\frac{n(A)}{2} = \frac{6!}{2} = \boxed{360} \quad (1)$$

13

$$5! \times 5! \times 2! = \boxed{28800}$$

11

$$c, d, c \quad a, b, a, b, c, f$$

$$2! \times 3! = \boxed{12}$$

$$= \boxed{12}$$



14

$$5! \times 4 \times 5 \times 4 \times 3 \times 2 \times 1 = \boxed{28800}$$

12

$$c, d, c$$

$$\frac{5!}{2!} = \boxed{120}$$

18

$$10! = (5! \times 4! + 5! \times 5!)$$

13

$$a, b, d, c$$

$$\frac{5!}{2!} = \boxed{120}$$

19

$$4! \times (1 \times 9 \times 8 \times 7 \times 6 - 2(5!)) = \boxed{5! \times 4 \times 3 \times 2 \times 1}$$

14

$$a, b, d$$

$$c, c$$

$$\frac{5!}{2! \times 2!} = \boxed{15}$$

$$2 \times 5! \times 5! = \boxed{28800}$$

20

$$5! \times 3! = \boxed{720 \times 6}$$

19

$$5! \times 3! = \boxed{720 \times 6}$$

$$= \boxed{28800}$$