

Subject:

B آریں نصیری - دہم

Date:

① $4!$ ✓ - 1

① $(4-1)! = 3!$ ✓ - 2

① $\frac{(4-1)!}{2} = \frac{3!}{2}$ ✓ - 3

① $\binom{4}{2} \times 4! = \binom{4}{2} \times 4! = \frac{4 \times 3}{2!} \times 4! = 3 \times 4 \times 4! = 48 \times 4! = 192 \times 4!$ ✓ - 4

① $\binom{4}{3} \times 3! = \binom{4}{3} \times 3! = \frac{4 \times 3}{3!} \times 3! = 4 \times 3! = 4 \times 6 = 24$ ✓ - 5

① $\binom{4}{4} \times \frac{3!}{2} = \binom{4}{4} \times \frac{3!}{2} = \frac{4 \times 3}{4!} \times \frac{3!}{2} = \frac{4 \times 3}{24} \times \frac{6}{2} = \frac{12}{24} \times 3 = \frac{1}{2} \times 3 = \frac{3}{2}$ ✓ - 6

① $a, \dots, b, \dots, d, e, f$ $\binom{6}{3} \times 4! = \binom{6}{3} \times 4! = \frac{6 \times 5 \times 4}{3!} \times 4! = 120 \times 4! = 480 \times 4!$ ✓ - 7

a b dc e f $4!$ ✓ ① - 8

a b dc e f $4! \times 2!$ ✓ ① - 9

$\frac{4!}{2!}$ ✓ ① - 10

a b f edc $4! \times 3!$ ✓ ① - 11

(e) (d) (c) $\frac{4!}{3!}$ ✓ ① - 12

(a) (d) (c) $\frac{4!}{3!}$ ✓ ① - 13

(a) (d) (e) (c) $\frac{4!}{3! \times 2!}$ ✓ ① - 14

s.a.m

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$$6! \times 2! \quad \checkmark$$

(1)

- 18

$$2! \times 2! \times 2! \quad \checkmark$$

(1)

- 19

$$2! \times \binom{6}{2} \times 2! \quad \checkmark$$

(1)

- 19

$$1. \quad 1! - (2! \times 6!) - (2! \times \binom{6}{2} \times 2!) = 340 \dots \quad \checkmark \quad (1)$$

$$\frac{2! \times 2! \times 2!}{\text{اول ساواته مني جده مان}} \quad \checkmark \quad (1)$$

- 19

$$6! \times 2! \quad \checkmark$$

(1)

- 20