The number of integers greater than 6,000 that can be formed, using the digits 3, 5, 6, 7 and 8, without repetition, is:

- (1) 120
- (2) 72
- (3) 216

(4) 192

Number of integers greater

than 6000 = Number of 4 diget integers greater than 6000 + Number of 5 diget integers greater than 6000

DOPREP

:. Number of 4 diget integers greater than 6000 = 3×4×3×2=72

:. Number of Sdigit integers greater than 6000 = 5 × 4 × 3×2×1 = 120

: Jotal number of integers greater than 6000= 72 + 120 = 192

Correct option (4)