

| Question | Answer | Marks | Guidance |
|----------|---|-----------|--|
| (a) | 5! | M1 | $k!$ where $k = 5, 6$ or 7 Condone $\times 1$ OE |
| | 120 | A1 | |
| | | 2 | |
| (b) | [Total no of ways =] $\frac{8!}{2!3!}$ [= 3360] | M1 | $\frac{8!}{a!b!}$, $a = 1, 2$ $b = 1, 3$ $a \neq b$ |
| | [With 3Es together =] $\frac{6!}{2!}$ [= 360] | M1 | $\frac{6!}{c!}$, $c = 1, 2$ seen in an addition/subtraction |
| | [With 3Es not together] = $3360 - 360$ | M1 | $\frac{8!}{d!e!} - \frac{6!}{f!}$ where $d, f = 1, 2$ & $e = 1, 3$ |
| | 3000 | A1 | |
| | | 4 | |