

- 30** A nucleus of element X absorbs a neutron and undergoes nuclear fission to give a nucleus of element Y and a nucleus of element Z.

Which row gives the correct relation of the binding energy per nucleon of the respective nuclei?

	$\frac{\text{binding energy per nucleon of Y}}{\text{binding energy per nucleon of X}}$	$\frac{\text{total binding energy per nucleon of Y and Z}}{\text{binding energy per nucleon of X}}$
A	greater than 1	greater than 1
B	greater than 1	less than 1
C	less than 1	greater than 1
D	less than 1	less than 1

End of Paper