

18. The outer electron configuration of Gd (Atomic no. 64) is

(1) $4f^4 5d^4 6s^2$

(2) $4f^7 5d^1 6s^2$

(3) $4f^3 5d^5 6s^2$

(4) $4f^8 5d^0 6s^2$

Solution:

Gd shows a half-filled f^7 configuration.

Hence option (2) is the answer.