

F-BLOCK

1. The lanthanide ion that would show colour is-
- | | |
|----------------------|----------------------|
| (1) Sm^{3+} | (2) La^{3+} |
| (3) Lu^{3+} | (4) Gd^{3+} |

2. The maximum number of possible oxidation states of actinoides are shown by
- (1) berkelium (Bk) and californium (Cf)
 - (2) nobelium (No) and lawrencium (Lr)
 - (3) actinium (Ac) and thorium (Th)
 - (4) neptunium (Np) and plutonium (Pu)

SOLUTION**1. Ans.(1)** $\text{Sm}^{3+} (4f^5) = \text{yellow colour}$

Correct option : (1)

2. Ans.(4)

Np and Pu show maximum no. of oxidations states starting from +3 to +7 all oxidation states.