

# PYQSide

## NEET D- AND F-BLOCK ELEMENTS — OXIDES AND OXO-ANIONS OF TRANSITION METALS — PYQS

Max. Marks: 8

Questions: 2

### Section A (MCQ)

- Q.1** Which of the following statements are INCORRECT?
- All the transition metals except scandium form MO oxides which are ionic.
  - The highest oxidation number corresponding to the group number in transition metal oxides is attained in  $\text{Sc}_2\text{O}_3$  to  $\text{Mn}_2\text{O}_7$ .
  - Basic character increases from  $\text{V}_2\text{O}_3$  to  $\text{V}_2\text{O}_4$  to  $\text{V}_2\text{O}_5$ .
  - $\text{V}_2\text{O}_4$  dissolves in acids to give  $\text{VO}_4^{3-}$  salts.
  - $\text{CrO}$  is basic but  $\text{Cr}_2\text{O}_3$  is amphoteric.
- Choose the correct answer from the options given below:
- (1) B and D only                      (2) C and D only  
(3) B and C only                      (4) A and E only

[NEET (UG) 2023]

Scan or tap for the full solution



- Q.2** The basic character of the transition metal monoxides follows the order  
(Atomic nos. Ti = 22, V = 23, Cr = 24, Fe = 26)
- $\text{VO} > \text{CrO} > \text{TiO} > \text{FeO}$
  - $\text{CrO} > \text{VO} > \text{FeO} > \text{TiO}$
  - $\text{TiO} > \text{FeO} > \text{VO} > \text{CrO}$
  - $\text{TiO} > \text{VO} > \text{CrO} > \text{FeO}$

[AIPMT 2003]

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### ANSWER KEY

| Ques. | 1 | 2 |  |  |  |  |  |  |  |  |  |
|-------|---|---|--|--|--|--|--|--|--|--|--|
| Ans.  | 2 | 4 |  |  |  |  |  |  |  |  |  |