

SMART EXAM RESOURCES
9701 AS CHEMISTRY TOPIC QUESTIONS
TOPIC: ATOMIC STRUCTURE
SUB-TOPIC: FREE RADICALS
SET-1

1.3.5-Free-Radicals-Set-1-qp-ms

1.

Which species is a free radical?

A He

B Be^-

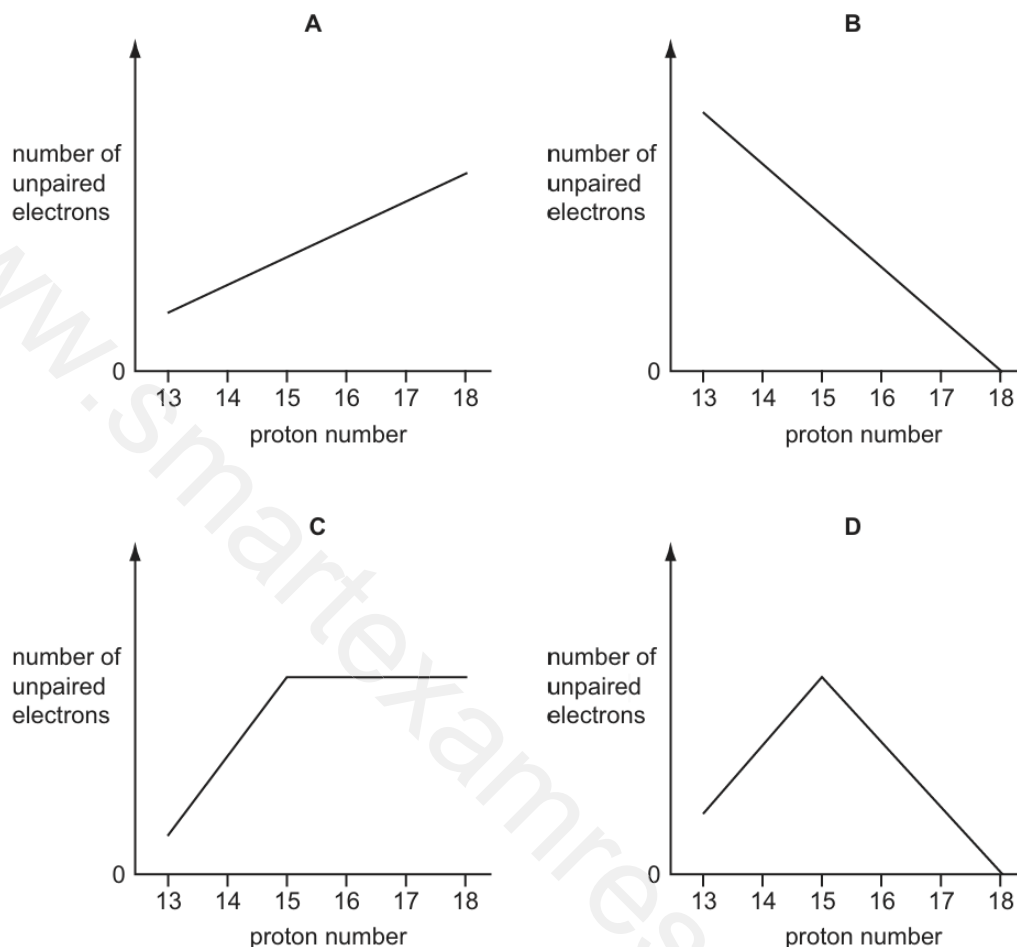
C O^{2-}

D Zn

2.

Use of the Data Booklet is relevant to this question.

Which graph represents the number of unpaired p orbital electrons for atoms with proton numbers 13 to 18?



3.

Use of the Data Booklet is relevant to this question.

What could be the proton number of an element that has three unpaired electrons in each of its atoms?

- A** 5 **B** 13 **C** 15 **D** 21

4.

Use of the Data Booklet is relevant to this question.

In which pairs do both species have the same number of unpaired p electrons?

1 O and Cl^+

2 F^+ and Ga^-

3 P and Ne^+

The responses **A** to **D** should be selected on the basis of

A	B	C	D
1, 2 and 3 are correct	1 and 2 only are correct	2 and 3 only are correct	1 only is correct

No other combination of statements is used as a correct response.

A) A

B) B

C) C

D) D