IUPAC Nomenclatures

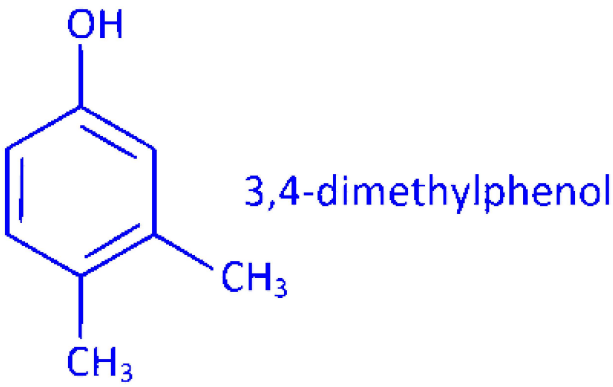
Question1

In which of the following options, the IUPAC name is not correctly matched with the structure of the compound?

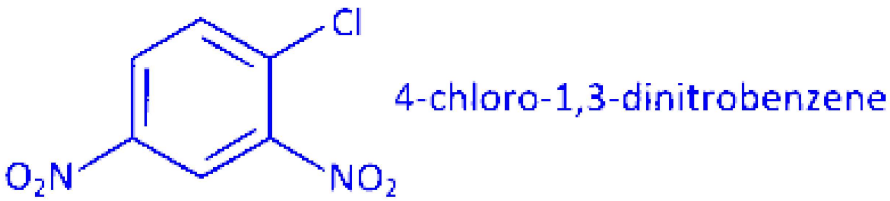
TG EAPCET 2024 (Online) 11th May Morning Shift

Options:

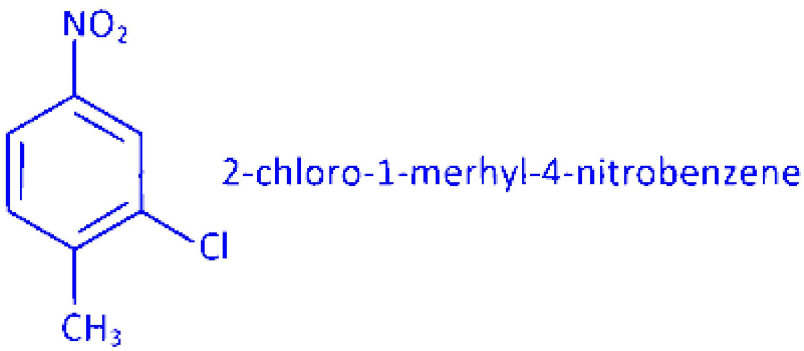
A.



B.



C.



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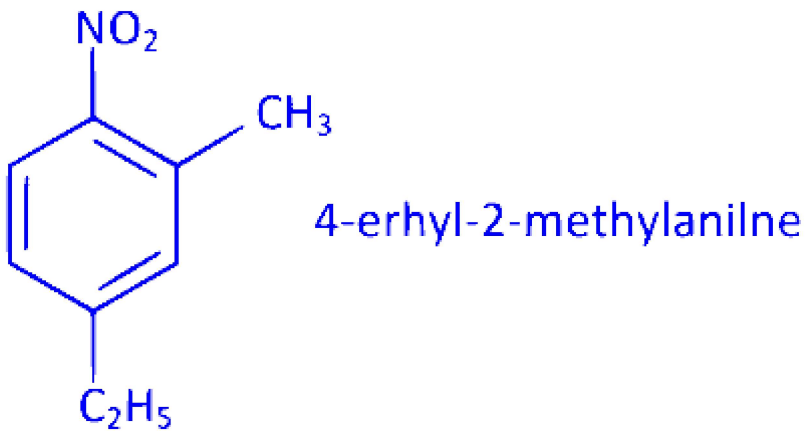
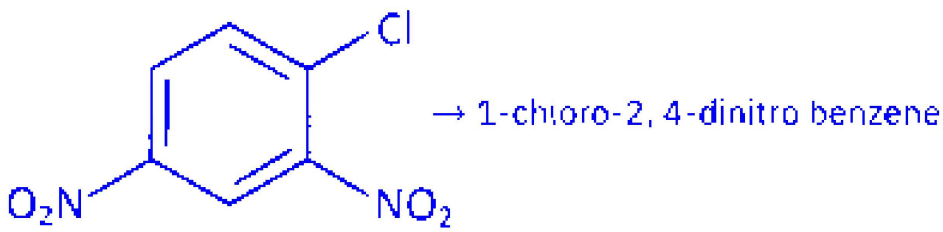
D.



Answer: B

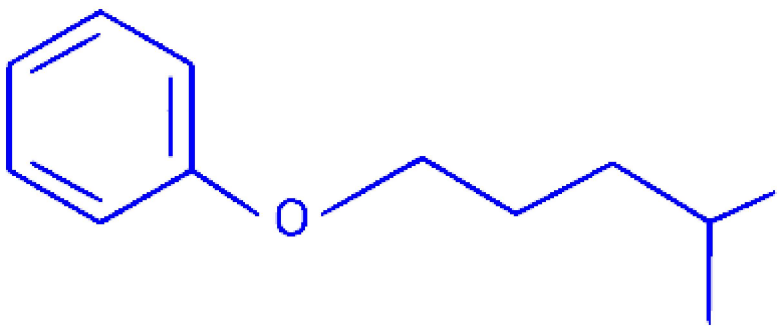
Solution:

IUPAC name given in option (b) is not correct. The correct IUPAC name is



Question2

IUPAC name of the following compound is



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TG EAPCET 2024 (Online) 10th May Evening Shift

Options:

A. 2-methyl pentoxybenzene

B. 4-methyl pentoxybenzene

C. phenoxy-4-methylpentane

D. phenoxy-2-methylpentane

Answer: B

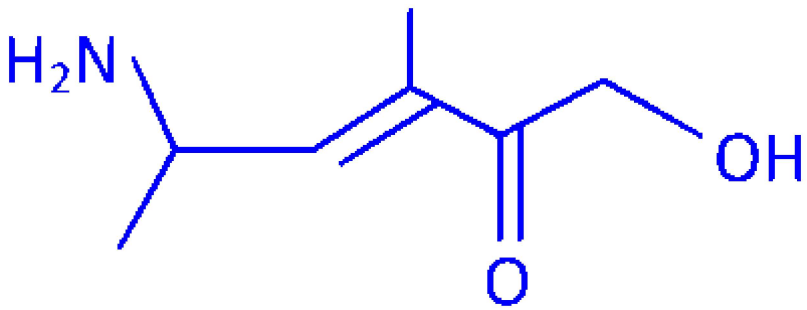
Solution:

The IUPAC name is

4-methyl pentoxybenzene

Question3

The correct IUPAC name of the structure given below is



TG EAPCET 2024 (Online) 10th May Morning Shift

Options:

A. 5-amino-4-methyl-2-oxohex-3-en-l-ol

B. 4-amino-2-methylpentanoic acid

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C. 5-amino-1-hydroxy-3-methylhex-3-en-2-one

D. 2-amino-6-hydroxy-5-keto-4-methyl-3-hexene

Answer: C

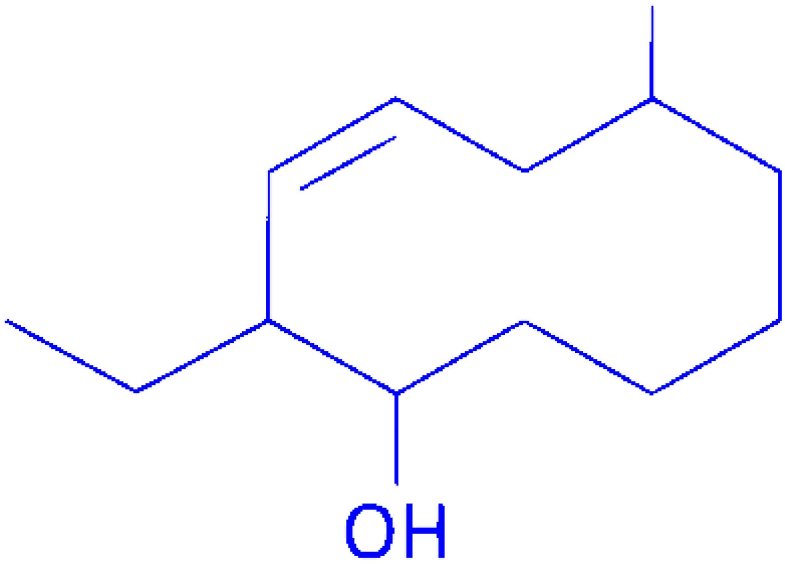
Solution:

The correct IUPAC name is

5-amino-1-hydroxy-3-methylhex-3-en-2-one

Question4

The IUPAC name of the following compound is



TG EAPCET 2024 (Online) 9th May Evening Shift

Options:

A. 6-ethyl-2-methyldec-4-en-7-ol

B. 2-methyl-6-ethyldec-4-en-7-ol

C. 5-ethyl-9-methyldec-6-en-4-ol

D. 9-methyl-5-ethyldec-6-en-4-ol

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Answer: C

Solution:

The IUPAC name of the given compound is, 5-ethyl-9-methyldec-6-en-4-ol

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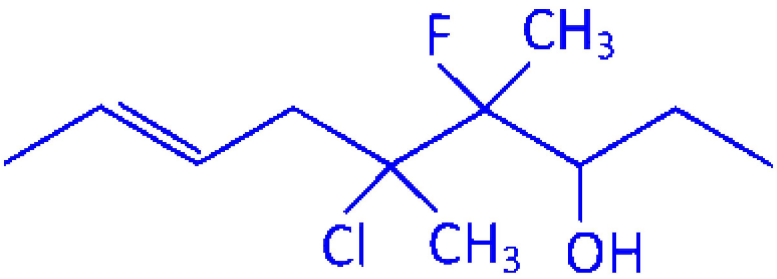
Question5

The IUPAC name of the following compound is



TS EAMCET 2023 (Online) 12th May Evening Shift

Options:

A. 5-chloro-4-fluoro-3-hydroxy-4, 5-dimethylnon-7-ene

B. 4-fluoro-5-chloro-4, 5-dimethylnon-8-en-3-ol

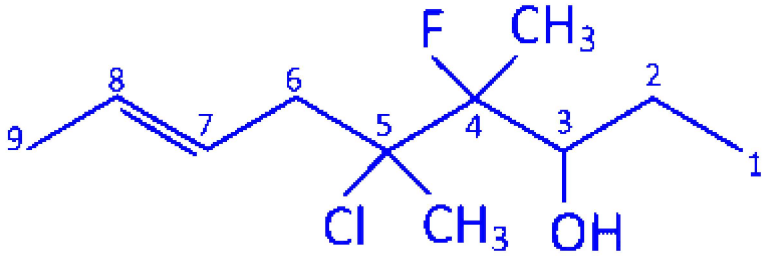
C. 5-chloro-6-fluoro-5, 6-dimethylnon-2-en-7-ol

D. 5-chloro-4-fluoro-4, 5-dimethylnon-7-en-3-ol

Answer: D

Solution:

In given structure, numbering of carbon chain is done as follows :



So, IUPAC naming will be 5-chloro-4-fluoro-4, 5-dimethylnon-7-en-3-ol.

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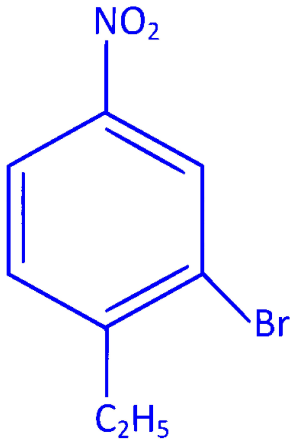
Question6

The correct IUPAC name of the compound given under is



TS EAMCET 2023 (Online) 12th May Morning Shift

Options:

A. 4-ethyl-2-bromo-4-nitrobenzene

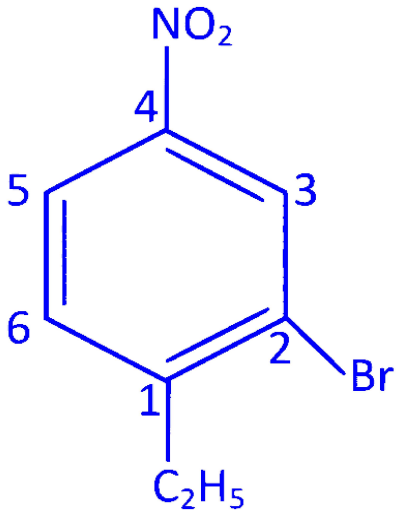
B. 2-bromo-1-ethyl-4-nitrobenzene

C. 3-bromo-4-ethyl-1-nitrobenzene

D. 1-ethyl-2-bromo-4-nitrobenzene

Answer: B

Solution:



The IUPAC name of the above compound is 2-bromo-1-ethyl-4-nitrobenzene.

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