

2023 Bi H1 Q8

Section: Metabolism and Survival

Topic: Metabolic Pathways

Question Summary

This question asks about which domains of life contain microorganisms.

Worked Solution

Microorganisms are found in all three domains of life:

- Bacteria – single-celled prokaryotes without a nucleus.
- Archaea – also prokaryotic, often living in extreme environments (e.g. hot springs, salt lakes).
- Eukaryotes – single-celled and multicellular organisms with nuclei (e.g. fungi, protozoa, algae).

■ Answer: D — Bacteria, Archaea and Eukaryotes

Revision Tips

- Life is divided into three domains: Bacteria, Archaea, and Eukaryotes.
- Both Bacteria and Archaea are prokaryotic, meaning they lack a nucleus.
- Eukaryotes include plants, animals, fungi, and protists.
- Microorganisms exist in all three because even eukaryotes can

be unicellular (e.g. yeast, amoeba).