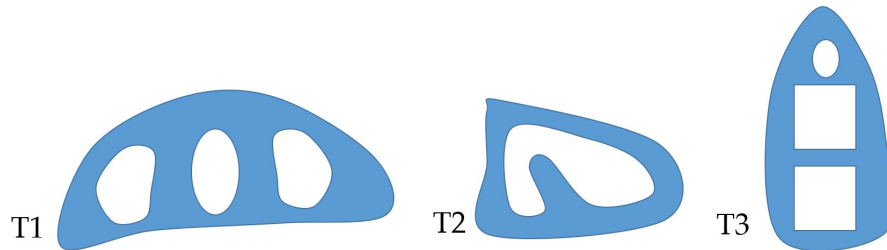


(1) Which of the following figures have the same topology?



- A. *T1 and T2*
- B. *T2 and T3*
- C. *T3 and T1*
- D. *All three have the same topology.*

(2) Gustave Eiffel, a great structural engineer, used multi-scale self-similar design of crossbeams in his “lattice structure” designs. In the Eiffel tower, how many levels are there with self-similar design?

- A. 2
- B. 3
- C. 4
- D. 5

(3) Sketches of a donut, a muffin, and a pretzel are shown below. Which is the correct sequence for them from the topology viewpoint?



- A. *Pretzel, muffin, donut*
- B. *Muffin, pretzel, donut*
- C. *Donut, pretzel, muffin*
- D. *Muffin, donut, pretzel*

(4) Which one of the following statements is incorrect?

- A. If we start with the inappropriate topology for a given structural design problem, it is most unlikely that we get the best performance despite earnest efforts in shape and size optimization.*
- B. The more you think, the less material you need for a structure.*
- C. Structural optimization began in the 21st century.*
- D. The art of structural design is to know where to make holes.*

(5) What skills and life-skills could you learn by taking ME 260 course? Tick one or more choices that apply.

- A. Rising early*
- B. Becoming an optimist*
- C. Learning the principles and practice of structural optimization*
- D. Appreciating the structural optimization codes*