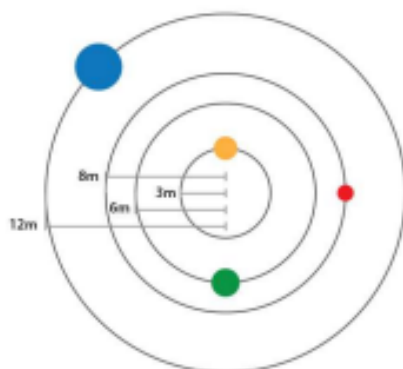


**Q. 01** Given below are the silhouettes of two iconic figures in Indian history. Which of the following statements is / are TRUE?

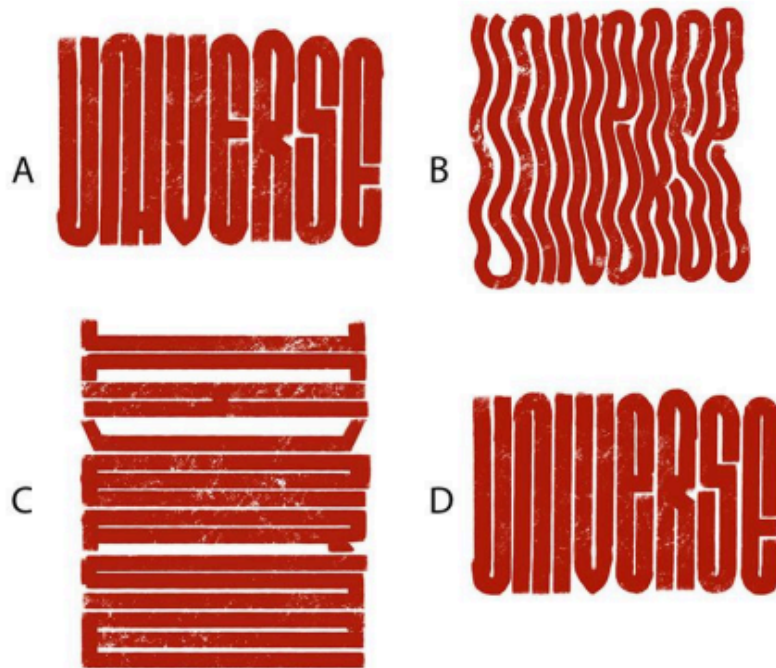


- A. Both had degrees in law
  - B. Both spent time in South Africa
  - C. The birthdays of both are in the same month
  - D. Both dressed in a manner that expressed their ideology
- Q. 02** Four spheres start revolving clockwise in concentric circles from their initial positions as shown below. Yellow travels at 2m/sec, green at 4m/sec, red at 2m/sec and blue at 4m/sec. Which of the following statement(s) is/are TRUE?

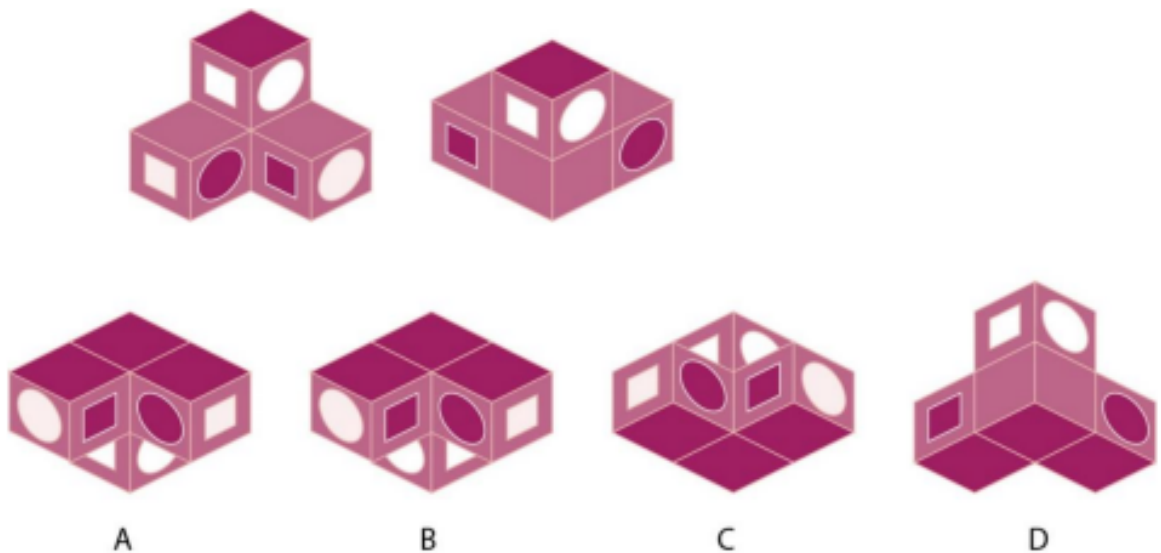


- A. Yellow and green never cross (overtake) each other
- B. Red and blue takes the same time to complete one revolution
- C. Yellow takes less time than green to complete one revolution
- D. Blue and red will cross each other twice after the first 3 complete revolutions of blue

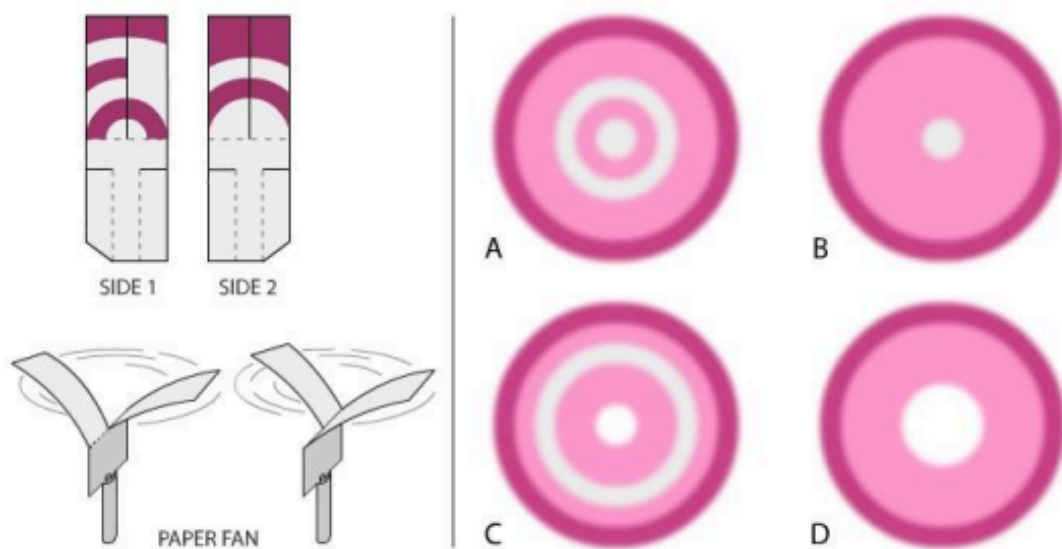
**Q. 03** The options show four ways of attempting to write the word "universe" in a mix of lower-case and upper-case letters. Which of the option(s) is/are correctly read as "universe"?



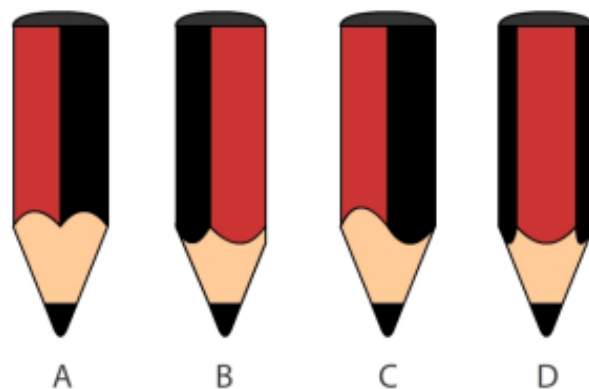
**Q. 04** A painted solid is shown from two different directions. Which of the options can be the same solid seen from another direction?



- Q. 05** A toy was created using a piece of paper, the two sides of which are shown in the image. When dropped from a height it spins like a fan. Which of the options depict(s) the correct pattern formed while it spins?



- Q. 06** A pencil with pentagonal cross-section was sharpened using a pencil sharpener. Which of the options correctly represent(s) side view of the pencil?



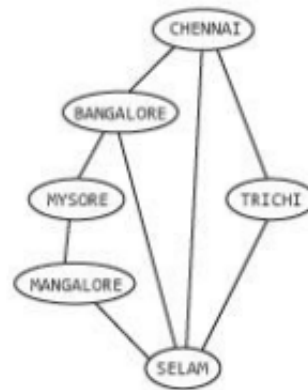
**Q. 07** The figure shows four road networks. Which of these four road networks can be traversed by a traveller, such that the following challenge can be satisfied: "The traveller must cover all the roads in the network. She is allowed to visit a city more than once, but she is not allowed to travel on any road more than once. Also, the traveller must come back to the city where she starts."



A



B



C



D

**Q. 08** Which option(s) is/are simple rotations of the figure given below?



A



B

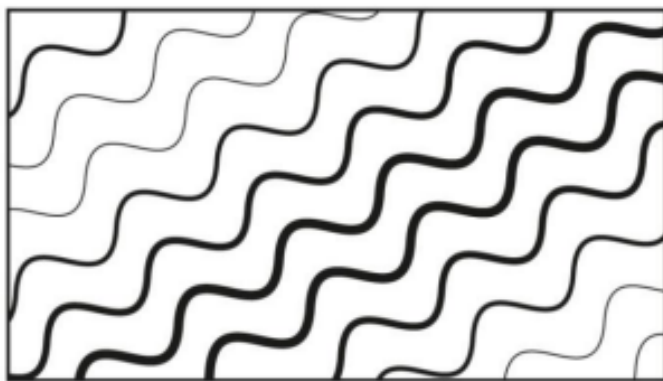


C



D

Q. 09 Shown below is a design pattern. Which of the given option(s) can be used as blocks to print the given pattern?



A



B



C



D

Q. 10 All doctors have to have a good understanding of the human body. Vijay has a good understanding of the human body. So he must be a cardiologist.

Which of the following options exhibit the exact same fallacy as the statement above.

- A. All dentists have to have a good understanding of human teeth. Santosh really has a good understanding of human teeth. So he must be a medical practitioner.
- B. All canines hunt in packs. Devil always hunts with his pack. So he must be a wolf.
- C. All good artists have a good sense of colour. Sunita has an excellent sense of colour. So Sunita must be a painter.
- D. All lecturers have to talk a lot. Vineet can talk for hours together. So he must be a teacher.