

# UCEED 2015 SAMPLE QUESTION PAPER

## Instructions

1. The examination is of 3 hours duration. There are a total of 100 questions carrying a total of 300 marks. The entire paper is divided into three sections, **A**, **B** and **C**. All sections are compulsory. Questions in each section are of different types.
2. **Section A (60 marks)** contains a total of **20 Numerical Answer Type (NAT)** questions. For these NAT type questions, the answer is a real number that needs to be entered using the virtual keyboard on the monitor. No choices will be shown for these questions. There is **NEGATIVE** marking for this section. Each correct answer will be awarded 3 marks and each wrong answer will be awarded -1 marks. Questions not attempted will result in zero mark. Questions 1-20 belong to this section.
3. **Section B (90 marks)** contains a total of **30 Multiple Select Questions (MSQ)**. Each MSQ type question may have **one or more than one correct choice(s)** that are correct out of the four given choices. The candidate gets 3 marks **only if ALL** the correct answers, and **no wrong answers** are selected. There is **NO NEGATIVE** or **PARTIAL** marking for this section. Questions not attempted will be given zero marks. Questions 21-50 belong to this section.
4. **Section C (150 marks)** contains a total of **50 Multiple Choice Questions (MCQ)**. Each MCQ type question has four choices out of which **only one** is the correct answer. There is **NEGATIVE** marking for this section. Each correct answer will be awarded 3 marks and each wrong answer will be awarded -1 marks. Questions not attempted will be given zero marks. Questions 51-100 belong to this section.
5. Calculators, charts, graph sheets, tables, cellular phone or other electronic gadgets are **NOT** allowed in the examination hall.
6. A Scribble Pad will be provided for rough work.

**NOTE:** The above will be the actual instruction to candidates in UCEED 2015. However, this Sample Question Paper contains only 10 questions each section.

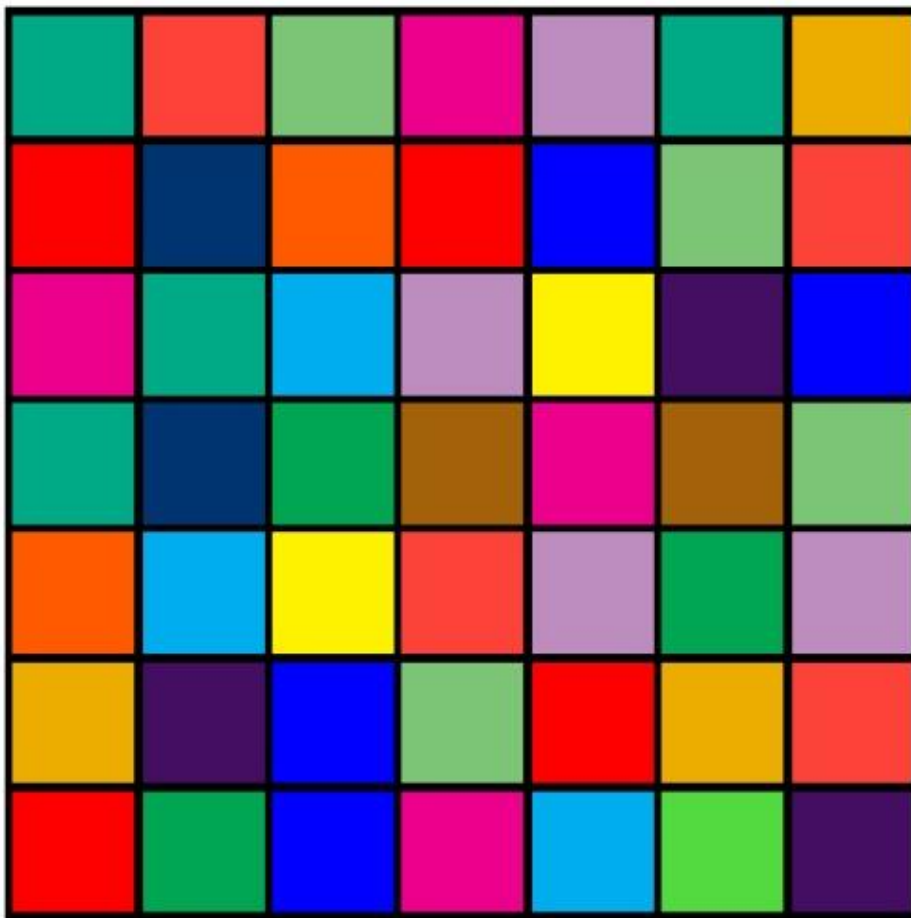
## Section A: Numerical Answer Type Questions

*This section contains a total of 10 Numerical Answer Type (NAT) questions. For these NAT type questions, the answer is a real number that needs to be entered using the virtual keyboard on the monitor. No choices will be shown for these questions. There is NEGATIVE marking for this section. Each correct answer will be awarded 3 marks and each wrong answer will be awarded -1 marks. Questions not attempted will result in zero mark.*

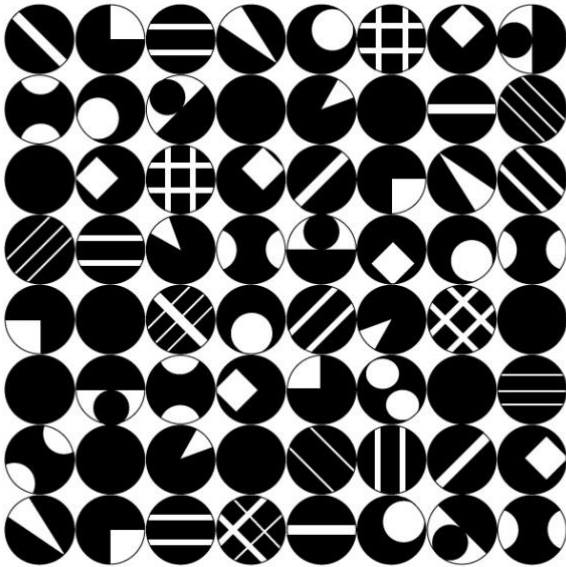
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Q1. If,  
T H E = 9  
L I E = 7  
F I L E = 10  
T H I E F = ?

Q2. Count the number of colours used in the grid given below.



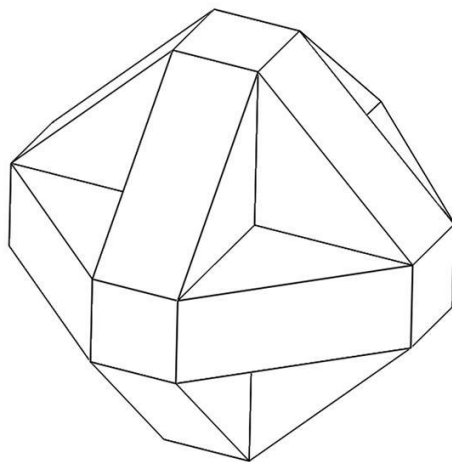
Q3. The given image has sixty-four circles with patterns inside, arranged in an eight-by-eight matrix. How many different types of circles are there in the image, assuming circles may be rotated?



Q4. Alakhnanda walks 37 kms in an approximate South-West direction from her home to reach her school. She walks around 13 kms in an approximate South-East direction from her home to reach the post office. The market is 35 kms exactly East of her school. If she walks straight North from the market she reaches her home. If she walks east from the market, she reaches the post office. How much distance would she travel if she had to go from her school to the post office?

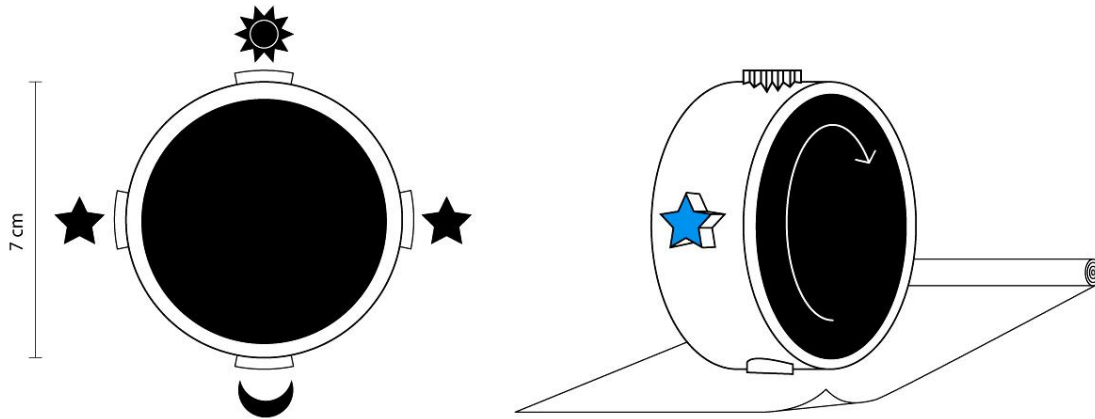
Q5. A solid cube, 8 inches x 8 inches x 8 inches is painted red on all the faces. The cube is then sliced into smaller equal sized cubes of 1 inch x 1 inch x 1 inch. How many of these small cubes will have exactly two red faces?

Q6. How many surfaces are present in the given regular solid?

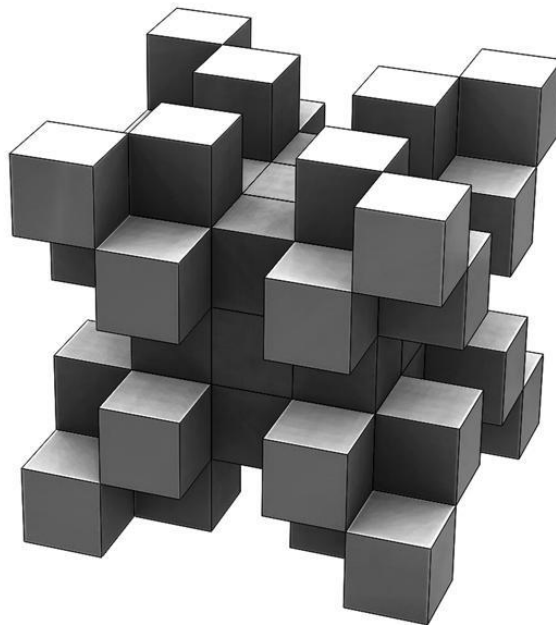


Q7. If the state of Uttar Pradesh is divided into four states, how many states would India have?

Q8. Shown below is a 7 cms diameter circular stamp with symbols Sun, Moon and Star on four coordinates. The stamp is inked blue and rolled on a paper to a distance of 40 cms. How many times the star symbol will get printed?



Q9. Count the number of cubes in the following geometrically symmetrical regular solid.



Q10. What is the maximum number of circular discs of equal size, which can be placed around a similar disc, such that the central disc is touched by all others but there is no overlap between any of the discs?

## Section B: Multiple Selection Questions

*This section contains a total of 10 Multiple Select Questions (MSQ). Each MSQ type question may have one or more than one correct choice(s) that are correct out of the four given choices. The candidate gets 3 marks only if ALL the correct answers are selected, and no wrong answers. There is NO NEGATIVE or PARTIAL marking for this section. Questions not attempted will be given zero marks.*

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Q11. Given below are two statements, based on which some conclusions have been drawn. If the statements are true, which of the conclusion(s) can be said to be true?

Statement 1: All mammals are fish.

Statement 2: All fish are dolphins.

- A. Some of the fish are mammals
- B. None of the dolphins are mammals
- C. Some of the mammals are dolphins
- D. All mammals are dolphins

Q12. Which shape(s) fit(s) this incomplete jigsaw?

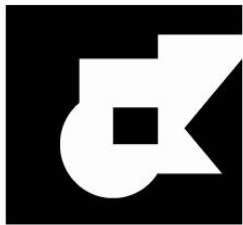


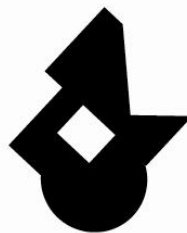
Image 1



A



B



C



D

Q13. Among the following, select the shade(s) of the colour red.

- A. Crimson
- B. Azure
- C. Carmine
- D. Viridian

Q14. Yamaha recently conducted a fun design experiment in which the company asked its motorcycle designers and musical instrument designers to switch roles, and create each other's products. This effort yielded four objects, one of which is shown below.

Select all the statements, ascertainable through careful observation, that apply to it.



Image courtesy Yamaha. Source: <http://www.core77.com/posts/35572/Design-Experiment-Yamaha-Has-Product-Designers-Switch-Roles>

- A. It is a zero-gravity drum kit that allows the drummer to rotate freely in all directions inside the sphere of drums and cymbals.
- B. The design resembles a globe in which the energy of the performer creates a visually dynamic world of sound.
- C. It extends the motorcycle designers' expertise with bent-tubing architecture to create a new kind of scaffolding for drums and drummer.
- D. The design is unstable, and the globe would tip over if the drummer whirled around to strike drums in a 360-degree turn.

Q15. Identify the odd letter(s) which do not share the same font with any others.

# Madgels

- A. M
- B. a
- C. e
- D. s

Q16. Which of the following film(s) has/have been directed by Steven Spielberg?

- A. Indiana Jones and the Temple of Doom
- B. Saving Private Ryan
- C. Schindler's List
- D. Munich

Q17. Which are the following vehicle(s) have a rear engine.

- A. Tata Nano
- B. Maruti Ertiga
- C. Skoda Octavia
- D. Tata Indica

Q18. Which among the following is/are weight(s) in a font family?

- A. Hairline
- B. Bold
- C. Feather
- D. Grey

Q19. Identify the term(s) used in photography.

- A. Depth of field
- B. ISO
- C. Jiggering
- D. Dodging

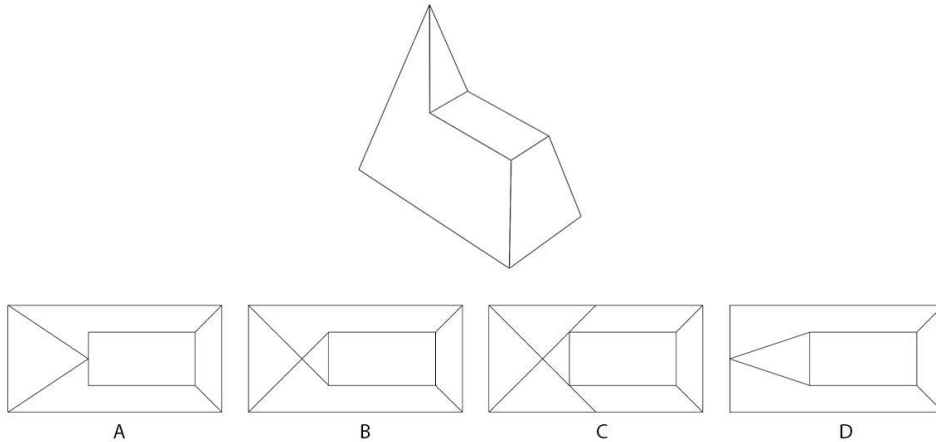
Q20. Which of the following material(s) is/are used to make a Tetra Pak?

- A. Paper
- B. Aluminum
- C. Plastic
- D. Teflon

## Section C: Multiple Choice Questions

This section contains a total of 10 Multiple Choice Questions (MCQ). Each MCQ type question has four choices out of which only one is the correct answer. There is **NEGATIVE** marking for this section. Each correct answer will be awarded 3 marks and each wrong answer will be awarded -1 marks. Questions not attempted will be given zero marks.

Q21. For the given solid, identify the correct top view.



Q22. Image 1 has been rotated. Which of the options given below is the same as Image 1?

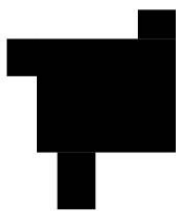
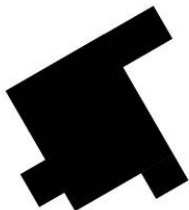
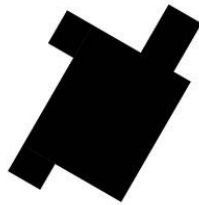


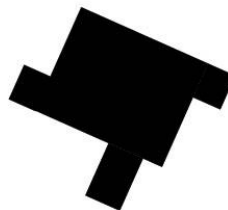
Image 1



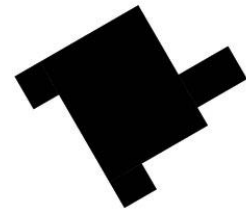
A



B



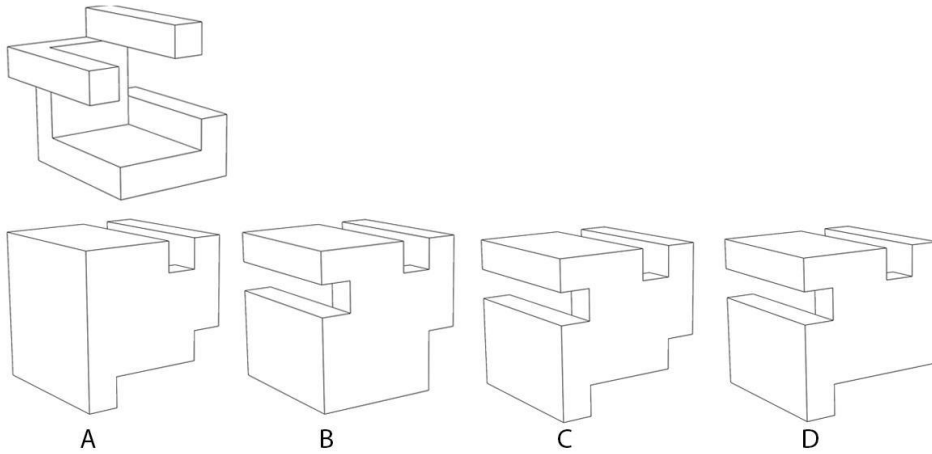
C



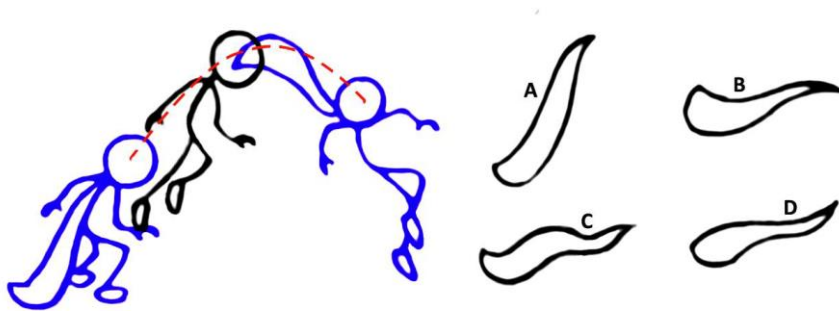
D



Q23. The given solid is part of a complete cube. From the options below, which solid would complete the cube upon joining?



Q24. A sequence of a superhero jumping is shown below. Identify the shape of the cape in the middle figure.

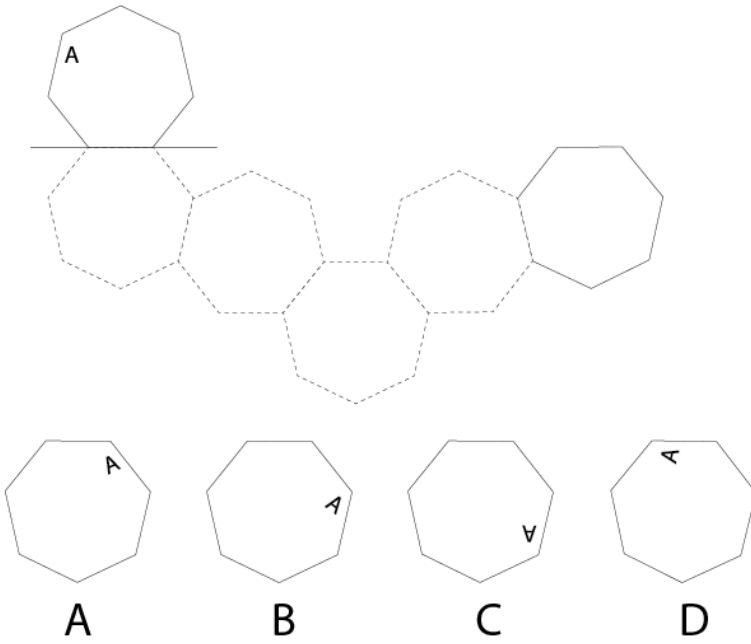


Q25. Identify the symbol shown below.

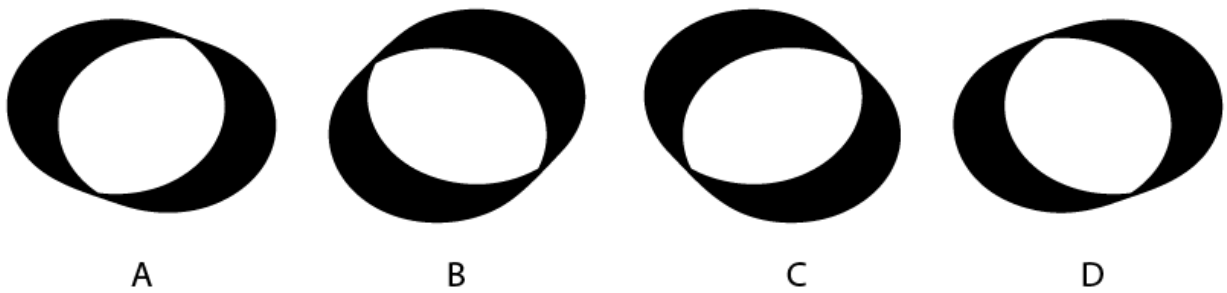


- A. Right to Information
- B. Right to Education
- C. Right to Literacy
- D. Right to Investment

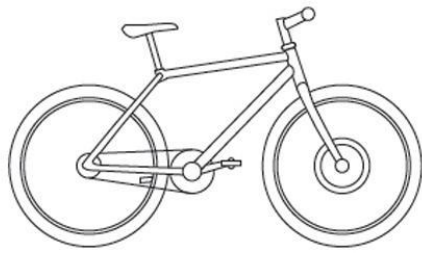
Q26. A polygon is mirrored five times, as shown below. Which of the following will be the image seen in the last polygon?



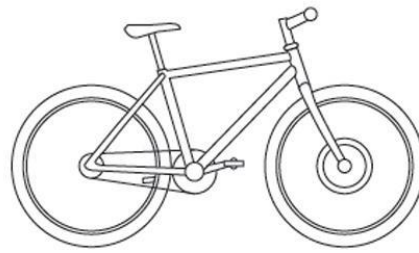
Q27. Shown below is a straight line drawn with a particular nib. If a circle was drawn with the same nib without changing the angle, how would it look?



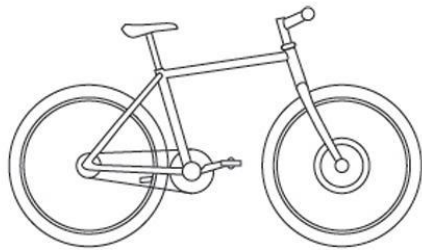
Q28. Which of the following is a correct bicycle frame?



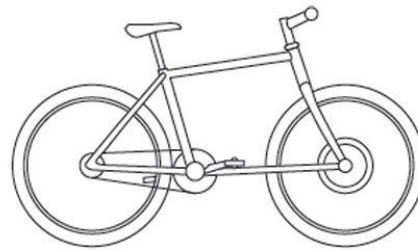
A



B



C



D

(Q29-30) Read the following paragraph carefully.

Research shows that young children who are read to on a regular basis will grow up to be better readers. When children sit in their parent's lap and listen to stories, they are learning about the pleasures of reading and the patterns of language, which also become associated with the comfort of companionship and care. When you see children turning the pages of a book, looking at the pictures, and telling the story, often from memory, they are engaged in what is called emergent literacy. Parents can foster this early language and literacy development by talking with their children, telling them stories, reading to them every day, and surrounding them with books.

Q29. The writer's main point is that

- A. Parents should read to their children every day.
- B. Children must learn the alphabet before they can learn to read.
- C. Pretend reading is one of the first steps toward learning how to read.
- D. Parents should buy their children lots of books.

Q30. Emergent literacy is best defined as

- A. The practice of pretend reading.
- B. Reading to children every day.
- C. Patterns of language.
- D. Early language and reading development