



**ANANT**  
**NATIONAL**  
**UNIVERSITY**  
॥ प्रज्वालितो ज्ञानमयः प्रदीपः ॥

## Entrance exam for Postgraduate Applicants

This entrance exam evaluates the applicant's potential to succeed in a professional master's degree programme at Anant National University. The point values and recommended duration for each question are provided. Answer all questions, and leave no blanks. You may use pens, pencils, and colours that do not bleed through the page. You may *not* use smartphones or access the internet. **The exam time limit is 120 minutes.**

Applicant's full name

Date of exam

Applicant's registration number

City

Email

Invigilator's name

Mobile number

Invigilator's signature

### OFFICIAL USE ONLY: EXAM EVALUATION

	Score	Evaluator	Signature
Logical Reasoning (20 pts)			
Comprehending Scenarios - Visual/Written (30 pts)			
Critical thinking (30 pts)			
Build your argument (20 pts)			
<b>TOTAL</b>			

# LOGICAL REASONING (20 points) | 10 min

(1)

Find the correct option for the series.

a

(a) (b) (c) (d)

b

a. b. c. d. e.

Which of these shapes fit the sequence?

c

A B C D E



Carefully read the statements and provide the correct answer.

- Bahubali scored more than Kattapa
- Kattapa scored more than Avantika, but less than Sivagami
- Sivagami scored less than Bhalla
- Devasena scored more than Bahubali but less than Bhalla

**d**

Who scored the highest?

- a) Bahubali
- b) Bhalla
- c) Devasena
- d) Kattapa

Five guest lectures - English, Maths, Hindi, Economics and Design - have been organised for a class. Each of these subjects have different credits.

- The lecture with the highest credit cannot be organised on Wednesday
- Guest faculty for Hindi is available only on Friday
- Economics should be taken immediately next day after English
- Lecture starting from the same alphabet as the day of the week will be taken on the same day
- Design has the highest credit and the faculty is not available on Thursday

**e**

Q. Which lecture is scheduled on Thursday

- a) English
- b) Design
- c) Economics
- d) Maths

A person travels 30m North, and heads 70m East from there. After reaching, he turned right and travelled 100m more and took a right turn again and travelled 70m. How far does he have to travel more to reach his starting point and in which direction?

**f**

- a) 100m Left
- b) 100m Right
- c) 70m Left
- d) 70m Right

Fill in the missing number for the series below:

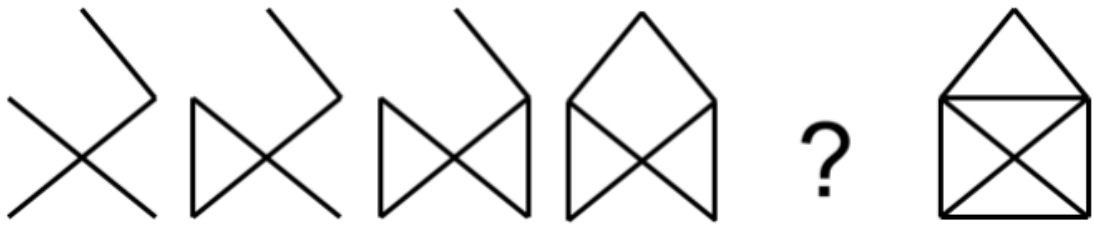
1,121, 12321, \_\_\_\_\_

**g**

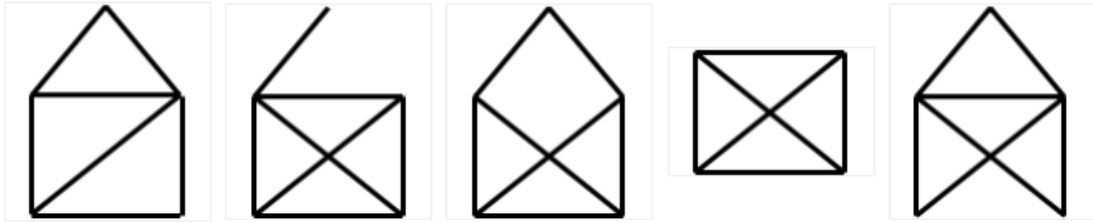
- a) 123321
- b) 12344321
- c) 1234231
- d) 12321



Which of these shapes complete the sequence?

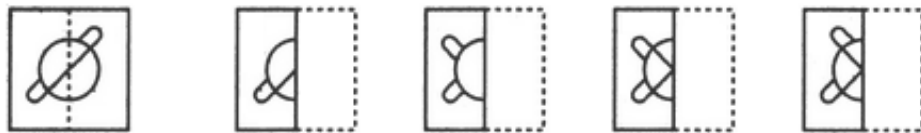


h



A B C D E

Suppose the following image is drawn on the transparent sheet. What would be the final pattern that would appear when the sheet is folded along the dotted line.



i

Image

1

2

3

4

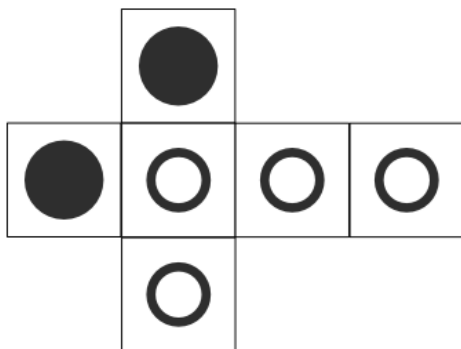
A. 1

B. 2

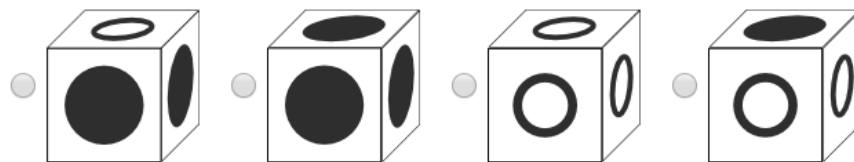
C. 3

D. 4

Which of these cubes is not the resultant of the paper folding given below.



j



A

B

C

D



## COMPREHENDING SCENARIOS (15 points) | 40 min

(2) Observe the picture below and identify the problems faced by users. Write a detailed note on the same. (7 points | 20 min)





Applicant's registration number: \_\_\_\_\_

**(3)** Read the passage below and comprehend the problems faced by the user(s). Write a detailed note on the same. (8 points | 20 min)

A few years ago, while working in a remote village of Rajasthan, an environmental health specialist Jay Pancholi saw an elderly woman in line to get water. She looked far too old to carry the water home herself, so he was relieved to see other people helping her — until he realized they were just making sure she had successfully balanced the 20 litre can on her head, and leave way for them in the line.





Applicant's registration number: \_\_\_\_\_



## CRITICAL THINKING (30 points) | 40 min

(4) Answer one of the questions below based on your choice of stream

(Master of Urban Planning)

To address the issue of haphazard and illegal parking on city roads, Ahmedabad Municipal Corporation has decided to open up vacant plots across the city for parking. Do you think this is the best use of the prime urban land available? Give Reasons.

(Master of Integrated Product Design)

Ahmedabad Municipal Corporation is faced with the problem of illegal parking on city roads. Please suggest a disruptive solution to address this. Suggest what would be the barriers for implementation.





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## **BUILD YOUR ARGUMENT (20 points) | 30 mins**

**(5)** Answer one of the questions below based on your choice of stream

(Master of Urban Planning)

The number of registered motor vehicles (in India) per 1000 population went up from 53 in 2001 to 144 in 2013. As per government records, 26.4% of the urban population was below the poverty line in 2011-12. Government has spent a large sums of money on promoting and developing public transport in urban areas. In this scenario, how much should the Government promote and leverage App based cab services in cities?

(Master of Integrated Product Design)

Current Research and Development in Autonomous Driving Technology is focussed on applications in Developed Countries. Build an argument for the rapid deployment of this technology in India to control the Chaos on our streets

