



DESIGN APTITUDE TEST / [DAT] 2022

UNDERGRADUATE

(ONLINE)

Time: 3 Hours

TOTAL MARKS - 100

INSTRUCTIONS TO THE CANDIDATES:

Read these instructions carefully before attempting the questions.

1. You are advised to sit in a closed room having proper light, near the Wi-Fi Router/Modem with the battery of your laptop FULLY CHARGED before appearing for the examination as a measure against unexpected power outages.
2. The candidates should remain within the focus area of webcam / camera of their system all through and till he/she completes his/her **ONLINE DAT test**.
3. Candidate can use rough work sheets (A4 size blank paper) for any calculation or noting. Using of calculator and other electronic devices strictly prohibited.
4. Type / write your answers IN ENGLISH ONLY.
5. **All questions are mandatory and there is no negative marking**
6. Stationery to be used: A4 size paper, Ball Pen (Blue Ink), Pencils (B, 2B, 4B, 6B, 8B), Geometry box, colour pencil set, ruler and sharpener and eraser.
7. **Maximum Duration for the completion of the test is 180 minutes (3hrs.).**

Undergraduate DAT Paper consists of two parts with total 36 Questions.

Part A carries a total of **40** marks. It contains **30** questions: This part assesses knowledge of Reasoning & General Awareness (RGA), Quantitative Aptitude (QA), Language & Comprehension (LA)

A.1 - Reasoning & General awareness -20 Questions – 01 Mark Each **Total 20 Marks**

A.2 – Quantitative aptitude, Language & comprehension-10 Questions – 02 Mark Each **Total 20 Marks**

Part B carries a total of **60** marks. It contains **06** questions: This part assesses Lateral thinking (LT), Design Problem Solving (DPS), Skill, Understanding of Interpretation and Expression (UIX), Visualization and Representation (VR).

B.1 – Lateral thinking, Design Problem solving - 02Questions – 05 Marks Each **Total 10 Marks**
02Questions – 10 Marks Each **Total 20 Marks**

B. 2 – Skill, understanding of Interpretation & Expression, Visualization & Representation-
02Questions – 15 Marks Each **Total 30 Marks**

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PART – A

PART A: This part assesses knowledge of Reasoning & General Awareness(RGA), Quantitative Aptitude(QA), Language & Comprehension(LA) (30 questions - 40 marks)

PART A.1: Reasoning & General awareness (20 questions - 20 marks @ 1 mark each)

Note: Tick (✓) the right answer from the following options

Q no. 1. Pandit Birju Maharaj was related to:1 mark

- A) Bharatanatyam
- B) Kathak
- C) Kuchipudi
- D) Social reformer

Q no. 2. Which is an original Indian car manufacturing company?1 mark

- A) Kia Motors
- B) Mahindra and Mahindra
- C) Toyota
- D) Honda

Q no. 3. Who designed the Indian flag?1 mark

- A) Mangal Pandey
- B) Ram Prasad Bismil
- C) Rajagopalachari
- D) Pingali Venkayya

Q no. 4. Aditya Birla Fashion and Retail Limited - announced partnership with designer1 mark

- A) Masaba Gupta
- B) Tarun Tahiliani
- C) Sabyasachi
- D) All of the above

Q no. 5. Who is the author of “The Design of Everyday Things”?1 mark

- A) Don Norman
- B) Jakob Nielsen
- C) Michael Wolff
- D) Andy Weir

Q no. 6. Which state is famous for Bidri work on brass and copper?1 mark

- A) Karnataka
- B) Gujarat
- C) Rajasthan
- D) Bihar

Q no. 7. The brand tagline of Disneyland is:1 mark

- A) Step in once and love it forever
- B) God’s own country
- C) The happiest place on earth
- D) Child’s dream come true

Q no. 8. This painting of Raja Ravi Varma depicts scene from which of the following Epic's:
.....1 mark



- A) Ramayana
- B) Rig Veda
- C) Atharva VEDA
- D) Mahabharata

Q no. 9. The company Meta comprises the following application.1 mark

- A) Facebook & WhatsApp
- B) Facebook & Instagram
- C) Oculus & Facebook
- D) Facebook, Instagram, WhatsApp & Oculus

Q no. 10. Dronacharya Award is given to which field?1 mark

- A) Literature
- B) Sports
- C) Education
- D) Music

Q no. 11. Rajya Sabha, is also known as:

.....1 mark

- A) "Council of States"
- B) Lower House
- C) Upper House
- D) A & C both are correct.

Q no. 12. In a functional parking area there are 16 cars, 18 motorcycles, 22 scooters and 17 auto rickshaws. Calculate the total number of wheels which are touching the ground.1 mark

- A) 195
- B) 220
- C) 200
- D) 75

Q no. 13. Geeta ranks 12th from the top and 25th from the bottom in her class. How many students are there in her class?1 mark

- A) 35
- B) 36
- C) 37
- D) None of the above

Q no. 14. For an integer Z, every odd integer is of the form.

.....1 mark

- A) Z
- B) Z
- C) $2Z + 2$
- D) $2Z + 1$

Q no. 15. Simplify; $-\frac{1}{5 \times 6} + \frac{1}{6 \times 7} + \frac{1}{7 \times 9} + \frac{1}{8 \times 9} + \frac{1}{9 \times 10} + \frac{1}{10 \times 11}$

.....1 mark

- A) $\frac{5}{47}$
- B) $\frac{9}{45}$
- C) $\frac{6}{55}$
- D) $\frac{7}{54}$

Q no. 16. Identify the Logo:

.....1 mark



- A) Mini
- B) Mitsubishi
- C) Mazda
- D) Mahindra & Mahindra

Q no. 17. Kondapalli toys is from:

.....1 mark

- A) Tamil Nadu
- B) Andhra Pradesh
- C) Karnataka
- D) Kerala

Q no. 18. Select the architect associated with Central Vista Project .

.....1 mark

- A) B. V Doshi
- B) Bimal Patel
- C) Hafeez Contractor
- D) Brindya Soumya



Q no. 19.

iMac G3 was designed by:

.....1 mark

- A) Philippe Starck
- B) Dieter Rams
- C) Jonathan Ive
- D) Zoha Hadid

Q no. 20. Sir Chandrasekhara Venkata Raman received Nobel Prize in:

.....1 mark

- A) Maths
- B) Chemistry
- C) Biology
- D) Physics

PART A.2: Quantitative aptitude, Language & comprehension (10 questions - 20 marks @ 2 marks each)

Tick (✓) the right answer from the following options

Q no. 21. Read the Passage and the statements given below and choose the correct option.

.....2 marks

Below is the excerpt from the book 'The Argumentative Indian' by Amartya Sen, published in 2005.

These essays on India were written over the last decade - about half of them over the last couple of years. The first four, which make up the first part of the collection, introduces and explains the principal themes pursued in this book, related to India's long argumentative tradition. India is an immensely diverse country with many distinct pursuits, vastly disparate convictions, widely divergent customs and a veritable feast of viewpoints. Any attempt to talk about the culture of the country, or about its past history or contemporary politics, must inescapably involve considerable selection. I need not, therefore, labour the point that the focus on the argumentative tradition in this work is also a result of choice. It does not reflect a belief that this is the only reasonable way of thinking about the history or culture or politics of India. I am very aware that there are other ways of proceeding. The selection of focus here is mainly for three distinct reasons: the long history of the argumentative tradition in India, its contemporary relevance, and its relative neglect in ongoing cultural discussions. It can in addition be claimed that the simultaneous flourishing of many different convictions and viewpoints in India has drawn substantially on the acceptance - explicitly or by implication - of heterodoxy and dialogue. The reach of Indian heterodoxy is remarkably extensive and ubiquitous.

I) The above excerpt from the book 'The Argumentative Indian' covers the diverse and polemical traditions in India.?

a. True

b. False

II) The author points out that the book is a collection of essays written between 1995 to 2005.?

a. True

b. False

III) The author suggests that traditional Indians are argumentative and that they have similar cultural practices and orthodox ways which are found everywhere across the nation.?

a. True

b. False

IV) India is a nation which has people from a range of different social and ethnic backgrounds having varied interest, opinion and the quest to practice varied vocation.?

a. True

b. False

The correct answer set is: -

- A) I) True;/ II) True;/ III) False; / IV) True
- B) I) False;/ II) True;/ III) True; / IV) False
- C) I) True;/ II) False, ;/ III) False; / IV) True
- D) I) False;/ II) True, ;/ III) False; / IV) True

Q no. 22. Choose the correct answer from the options given below, which is similar in the meaning to the word 'Malodorous'.2 marks

- A) Woodsy
- B) Fusty
- C) Redolent
- D) Ambrosial

Q no. 23. Match the following idioms with their correct meaning.2 marks

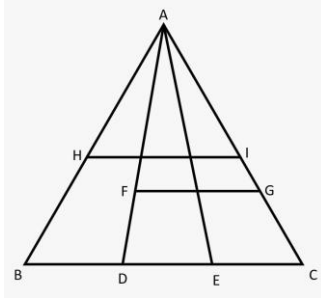
1. " come hell or high water"	a. Be dead and buried
2. " blow something out of the water "	b. something of negligible importance or value
3. "Not worth a hill of beans"	c. to destroy or defeat something or someone completely
4. " pushing up daisies"	d. no matter what happens

The correct answer set is:

- A) $1/d, 2/c, 3/b, 4/a$
- B) $1/b, 2/a, 3/d, 4/c$
- C) $1/c, 2/b, 3/a, 4/d$
- D) $1/a, 2/d, 3/c, 4/b$

Q no. 24 Find the number of triangle in the triangular image given below.

.....2 marks



- A) 12
- B) 16
- C) 10
- D) None of the above

Q no. 25. In the given number series: 8, 16, 14, 28, 26, 52 ... Which number would come next?

.....2 marks

- A) 50
- B) 100
- C) 53
- D) 54

Q no. 26. The speed of a boat in still water is 7km/hr. If the speed of the boat against the stream is 4 km/hr, what is the speed of the stream?

.....2 marks

- A) 1.5 km/hr
- B) 2 km/hr
- C) 3 km/hr
- D) 1 km/hr

Q no. 27. What is the maximum number of passport sized photographs of size 3.5 cm x 4.5 cm that can be printed on an A5 size sheet leaving/excluding one-centimetre margin all around the A5 Sheet?

.....2 marks

- A) 19

- B) 22
- C) 18
- D) 12

Q no. 28. A heavy duty drill machine operates at 100 rpm per minute. How many times will it rotate in three working shifts given below- with in between power cuts of 6 hours 30 minutes?2 marks

	Shift	Duration
1	Morning shift	6am – 2pm
2	Afternoon shift	2pm – 10pm
3	Night Shift	10pm – 6pm

- A) 105000
- B) 100500
- C) 150000
- D) 100050

Q no. 29. In an IPL tournament each of nine teams played exactly once with each other, but two of the matches were not played due rain. Give the total number of matches played.2 marks

- A) 36
- B) 34
- C) 41
- D) 49

Q no. 30. Aruna walks 3 kms in an approximate South-West direction from her home to reach her school. She walks around 3 kms in an approximate South-East direction from her home to reach the post office. The market is 2 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?
.....2 marks

- A) 4
- B) 5
- C) 3
- D) 7

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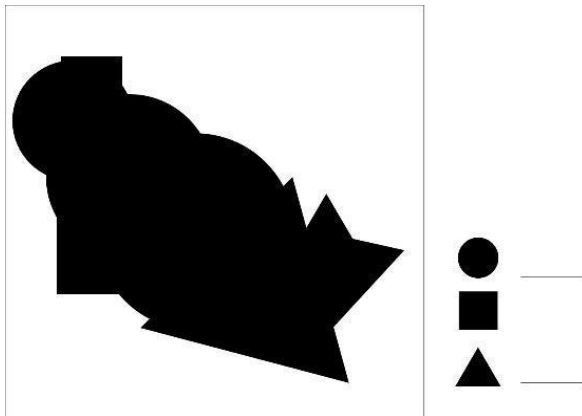
PART – B
Creative Ability Test

Part B: This part assesses Lateral thinking (LT), Design Problem Solving (DPS), Skill, Understanding of Interpretation and Expression (UIX), Visualization and Representation (VR) **(06 questions - 60 marks)**

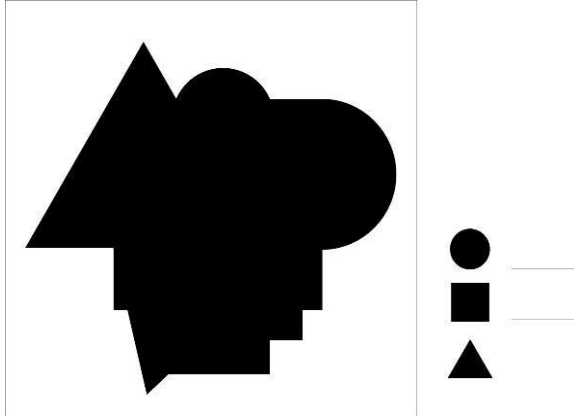
PART B.1 – Lateral thinking, Design Problem (02 questions - 10 marks @ 5 marks each) (02 questions - 20 marks @ 10 marks each)

Q no. 31. How many total shapes are there together in the given images? Justify the shapes through drawings in a single page.5 marks

Image a)



Images b)



INSTRUCTION NOTES:

- Number of Papers to be used: 01
- Paper size: A4
- Paper orientation: will be decided by the candidate
- Name, Candidate ID & Question no. should be written on the corner of the page
- Do not use scale.
- Use only HB pencil
- Once completed, Upload the file as instructed

Q no. 32. Choose any one toy from the images given below. Draw the selected toy in a 3 dimensional form. Render the form drawn with pencil only.5 marks

INSTRUCTION NOTES:

- Number of Papers to be used: 01
- Paper size: A4
- Paper orientation: will be decided by the candidate
- Name, Candidate ID & Question no. should be written on the corner of the page
- Do not use scale.
- Use only HB pencil
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Q no. 33.
marks

.....10

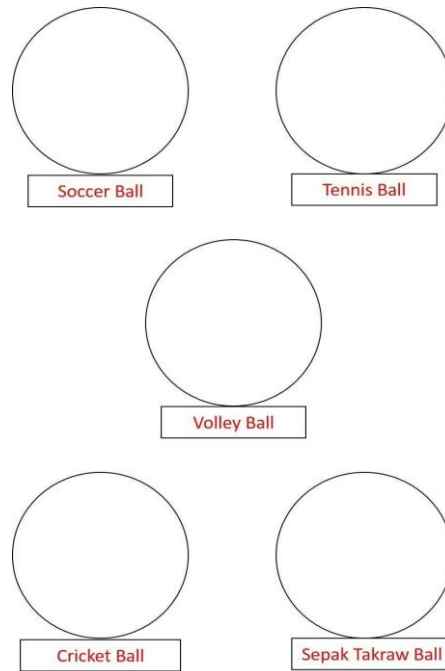
Draw the balls used for different games mentioned below. Highlighting the details of the balls with colour rendering. Please follow the format as a sample attached of the answer.

Sports:

1. Soccer
2. Lawn Tennis
3. Volleyball
4. Cricket
5. Sepak Takraw

INSTRUCTION NOTES:

- Paper size: A4
- Paper orientation: will be decided by the candidate
- Name, Candidate ID & Question no. should be written on the corner of the page
- Each ball should be drawn inside a circle of 2 inches of Diameter only
- Use geometric instruments for drawing circles only
- Use only HB pencil to draw
- Use colour pencils for colour rendering
- Do not use sketch pens or markers
- Once completed, Upload the file as instructed



Q no. 34. Choose any one alphabet from the options provided below, as an *inspiration*. Ideate and draw (colour rendering) a functional object using the chosen alphabet. Type in the given space about the functions and the specifications of the created object in maximum of 100 words.10 marks

INSTRUCTION NOTES:

- Paper size: A4 or A3
- Paper orientation: will be decided by the candidate
- Name, Candidate ID & Question no. should be written on the corner of the page
- Drawing should be on one page only.
- Concept note should be typed in the given space in maximum of 100 words.
- Use only HB pencil to draw
- Use colour pencils for colour rendering
- Do not use sketch pens or markers
- Once completed, Upload the file as instructed

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OR

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PART B.2 – Skill, Interpretation & Expression, Visualization & Representation (02 questions - 30 marks @ 15 marks each)

Q no. 35. Choose any one profession from the list provided below. Imagine and illustrate his/her professional work space and render it with colour pencil only. Follow the instructions listed below...15 marks

1. Shoe maker
2. Driver
3. Fashion Designer
4. Artist
5. Street food vender
6. Gymnasium

INSTRUCTION NOTES:

- Paper size: A4 or A3
- Paper orientation: will be decided by the candidate
- Name, Candidate ID & Question no. should be written on the corner of the page
- Use only HB pencil to draw
- Use colour pencils for colour rendering
- Do not use sketch pens or markers
- Once completed, Upload the file as instructed

Q no. 36. Make a story using six different objects listed below in six frames respectively and create a storyboard. Type the story in the space given in maximum of 100 words.

.....15 marks

Sequence of the objects is:

Your frame wise objects are:

Frame 1 - **Bag**

Frame 2 - **Door**

Frame 3 - **Vehicle**

Frame 4 - **Shoe**

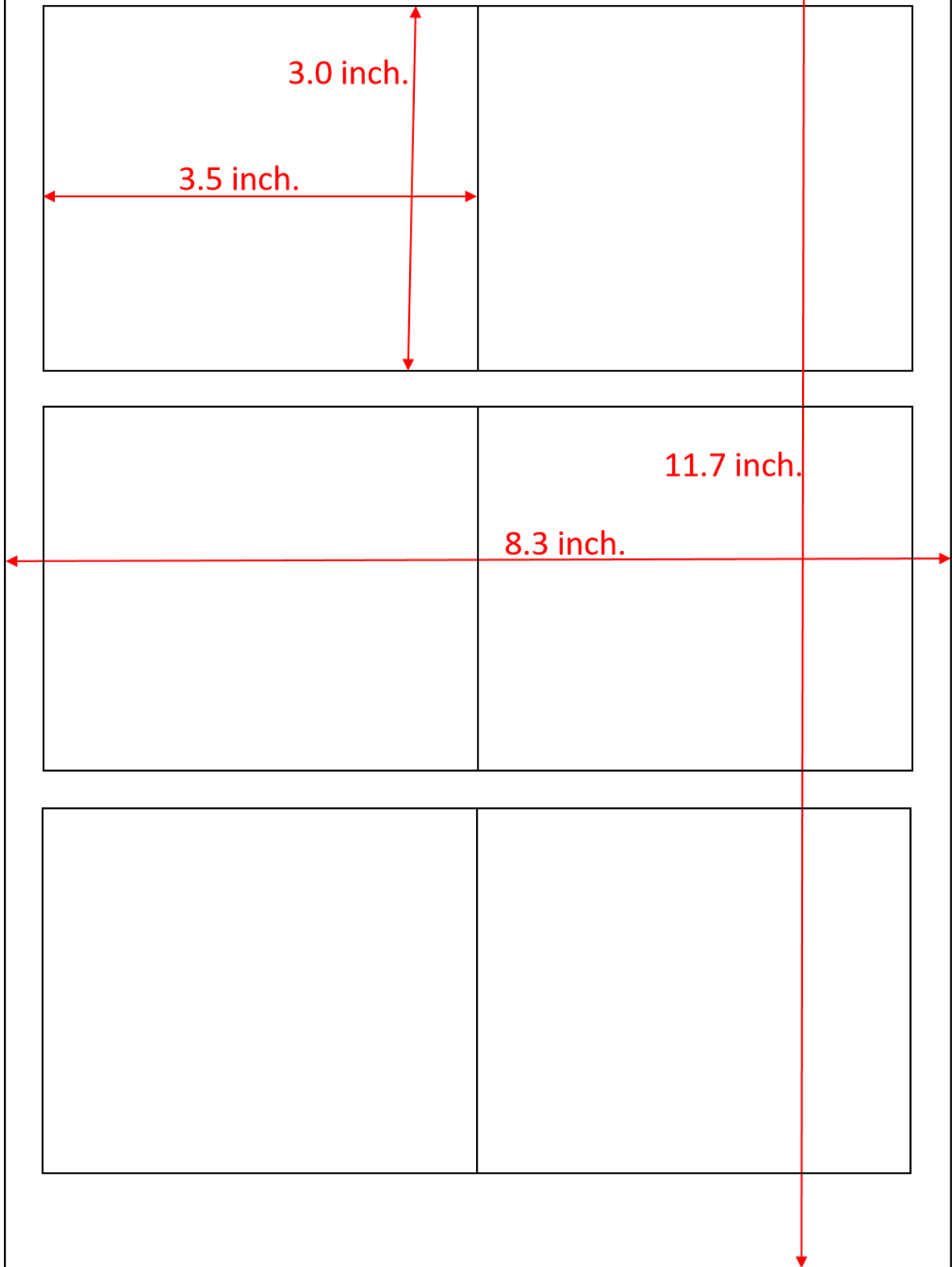
Frame 5 - **Tree**

Frame 6 – Any object of your choice

INSTRUCTION NOTES:

- Paper size: A4 or A3
- Type the story in the space given in maximum of 100 words.
- The sequence of the given objects should not be changed.
- Paper orientation: will be decided by the candidate
- Name, Candidate ID & Question no. should be written on the corner of the page
- Draw six boxes (3.5-inch X 2.5 inch each) in the sheet followed by a small rectangle box below it for narratives
(example of the format given below).
- Use only HB pencil to draw
- Use colour pencils for colour rendering
- Do not use sketch pens or markers
- Once completed, Upload the file as instructed

Sample of A4 sheet area



-X-