

**UID- Design Aptitude Test (DAT) 2023 (ONLINE)**

UNDERGRADUATE

Time: 3 Hours

TOTAL MARKS - 100

**INSTRUCTIONS TO THE CANDIDATES**

**Read these instructions carefully before attempting the questions.**

1. Please ensure that you are seated alone in a room for taking the examinations. Also ensure that you are seated in a well-lit area for taking the examination.
2. Sufficient A4 Sheets, Lead Pencils (grade B, 2B, 4B, 6B and 8B), coloured pencils, eraser, ruler, sharpener and geometry box for the purpose of examination.
3. Properly functional laptop / desktop with a functional mic and web-camera (either inbuilt or externally attached).
4. Internet Speed should be minimum of 1Mbps.
5. Candidates are requested to deactivate the screensaver & antivirus software and other notification for smooth conduct of the Examination.
6. Kindly keep any one Government ID Proof such as Aadhar Card, PAN Card, Driving License or your School ID Card handy.
7. You are required to be prepared with their system (Laptop/Desktop with inbuilt or fitted webcam arrangement) for the ONLINE test and check out their systems / read manual and check out the virtual video guide to attempt DAT 2023
8. The link will be accessible at least 45 minutes before the commencement of the DAT 2023
9. The test will be conducted through an AI-proctored platform. Use Laptop/Desktop (With a front camera/webcam and microphone facility) is MUST, for easy and convenient execution of examination.
10. Once the examination starts, you will not be allowed to change the examination window program. Navigational alerts are shared on-screen every time you try to navigate from the test window.
11. Before starting the examination, please go through the instruction manual and virtual video guide for attempting DAT 2023

Undergraduate DAT Paper consists of two parts with 43 Questions.

**Part 1 GAT – (General Ability Test)** carries a total of **40** marks. It contains **40** questions: This part assesses Communication Ability, Comprehension, Quantitative Ability, Analytical Ability, General Knowledge and Current Affairs and Data Interpretation.

**Part 2 CAT – (Creative Ability Test)** carries a total of **60** marks. It contains **03** questions: This part assesses Creative Thought Process, Critical Analysis, Design Problem Solving Skill, Interpretation and Expression, Visualization & Representations.

**UG – FINAL – DAT – SET 1**

**Part – A – 40 marks**

Q. NO.1. Mahila Praharis of the BSF Camel Contingent will make their 2023 Republic Day parade debut in uniform designed by: -

- a) Masaba Gupta
- b) Ragvendra Rathore
- c) Sabyasachi Mukherjee10
- d) Ritu Kumar

Q.no.2



QR code was invented by: -

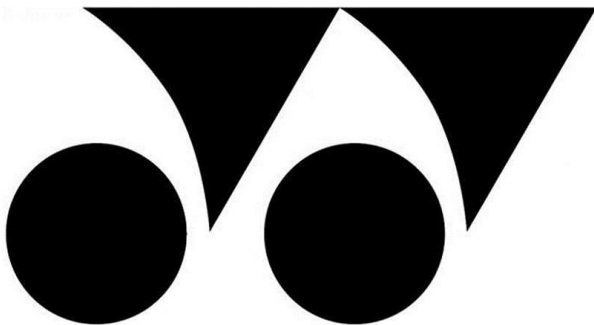
- a) Karim Rashid
- b) Marc Newson
- c) Naoto Fukasawa Bauhaus was founded in which of the following cities?
- d) Masahiro Hara

Q. NO. 3 Which country has the longest coastline in the world?

- a) Canada
- b) Norway
- c) Australia
- d) Philippines

Q. NO. 4. Identify the logo from the options given

below:



- a) RISE Worldwide
- b) Sportz Interactive
- c) JSW Sports
- d) Yonex

Q.no.5. The Hollywood Movie 'Avatar' - The Way of Water is directed by: -

- a) Wes Anderson
- b) Kathryn Bigelow
- c) James Cameron
- d) Christopher Nolan

Q. NO. 6. Which state is home to the traditional dance known as Ottamthullal?

- a) Kerala
- b) Karnataka
- c) Tamil Nadu
- d) Andhra

Q. NO. 7.

- a) Berlin
- b) Paris
- c) Rome
- d) Weimar

Q. NO.8. Lothal is site of\_\_\_\_\_.

- (a) Mesopotamia
- (b) Greek
- (c) Egyptia
- (d) Indus valley

Q. NO. 9

$\sqrt{2 + \sqrt{2 + \sqrt{2 + \sqrt{2 + \dots}}}}$  is equal to

- a) 1
- b) 1.5
- c) 2
- d) 2.5

Q no. 10. The remainder when  $\{(397)^{3589} + 5\}$  is divided by 398?

- a) 1
- b) 4
- c) 3
- d) 2

Q no.11. How many zeros will be required to number the pages of a book containing 1000 pages

- a) 168
- b) 184
- c) 192
- d) 216

Q no. 12. If  $a^2 + b^2 + c^2 = 1$ , what is the maximum value of  $abc$ ?

- a)  $\frac{1}{3}$
- b) 1
- e)  $\frac{2}{\sqrt{3}}$
- f)  $\frac{2}{3\sqrt{3}}$

Q no. 13. A dishonest dealer to sell his goods at cost price but uses a weight of 960 gms for a Kg. weight. What is his gain percentage?

- a)  $4\frac{1}{6}$
- b)  $6\frac{1}{4}$
- c)  $1\frac{4}{6}$
- d) None

Q no. 14. In barracks of soldiers there was stock of food for 190 days for 4000 soldiers. After 30 days 800 soldiers left the barracks. For how many days the balance food stock will last for the remaining soldiers?

- a) 175
- b) 200
- c) 225
- d) 250

Q no. 15. Two trains, one from Ahmedabad to Jaipur and other from Jaipur to Ahmedabad, start simultaneously. After the trains cross each other, they reach their destinations after 9 hours and 16 hours respectively. The ratio of their speeds is:

- a) 2:3
- b) 4:3
- c) 3:4
- d) 9:16

Q.no.16. 'Sleep to the top' (Choose the correct option which best expresses the meaning of the phrase.)

- a) Sound sleep.
- b) To be in a great state of happiness
- c) Wasting one's time
- d) Something that is impulsive or spontaneous

Q.no. 17. 'Might and main' (Choose the correct option which best expresses the meaning of the phrase.)

- a) Choosing between two equally untenable alternatives.

- b) To poke, nag and pester relentlessly
- c) Doing something with as much effort as possible
- d) Show bravery or courage in adversity and pain

Q.no.18 'Hit the ceiling'. (Choose the correct option which best expresses the meaning of the phrase.)

- a) To concentrate
- b) When someone's luck is highly favourable.
- c) To erupt with anger
- d) None of the above

Q. no. 19 'Ostentatious' (Choose the correct synonym which best expresses the meaning)

- a) Stilly
- b) Felicitous
- c) Loud
- d) Guileless

Q. NO. 20. 'Congenial' (Choose the correct synonym which best expresses the meaning)

- a) Impersonal
- b) Pleasant
- c) Odious
- d) Important

Q.no.21. 'Abnegation' (Choose the correct synonym which best expresses the meaning)

- a) Renunciation
- b) Indulgence
- c) Profligacy
- d) Profuseness

Read the information given below and solve the questions 22 to 26 based on it.

There are seven students—Z, Y, X, W, V, U and T—in a PG batch. All these students sit on three benches 1st, 2nd and 3<sup>rd</sup> bench respectively in such way that:

- (i) There are at least two students sitting on each bench
- (ii) There is at least one girl on each bench.
- (iii) X, a girl student, does not sit with Z, V and W.
- (iv) U, a boy student sits with only Y.
- (v) Z sits with his best friend on 1<sup>st</sup> bench.
- (vi) T sits on the 3<sup>rd</sup> bench.
- (vii) V is the brother of X.

Q.no 22. How many girl students are there?

- (a) 5
- (b) 4
- (c) 2
- (d) None of the Above

Q.no.23 Who sits with X?

- (a) Y
- (b) T
- (c) W
- (d) V

Q.no.24. Which of the following is a group of girls?

- (a) Y Z X
- (b) Y U X
- (c) X W U
- (d) Y X W

Q.no.25. On which bench do three students sit?

- (a) 2nd
- (b) 3rd
- (c) 1st
- (d) 1st or 2nd

Q.no.26 The gender of how many students is known?

- a) 4
- b) 5
- c) 6
- d) 7

*Please read the following paragraph and answer the questions 27 to 29 based on it.*

'I felt the wall of the tunnel shiver. The master alarm squealed through my earphones. Almost simultaneously, Jack yelled down to me that there was a warning light on. Fleeting but spectacular sights snapped into and out of view, the snow, the shower of debris, the moon- looming close and big, the dazzling sunshine for once unfiltered by layers of air. The last twelve hours before re-entry were particularly bone-chilling. During this period, I had to go up in to command module. Even after the fiery re-entry splashing down in 81° water in south pacific, we could still see our frosty breath inside the command module.

Q.no.27. The word 'Command Module' used twice in the given passage indicates perhaps that it deals with

- a) an alarming journey
- b) a commanding situation
- c) a journey into outer space
- d) a frightful battle

Q.no.28. Which one of the following reasons would one consider most possible for the warning lights to be on?

- a) A catastrophe was imminent.
- b) The moon was looming close and big
- c) Jack was yelling.
- d) The master alarm squealed

Q.no.29. The statement that the dazzling sunshine was "for once unfiltered by layers of air" means

- a) that the sun was very hot
- b) that the air was unpolluted
- c) that there was no strong wind
- d) none of above

Q.no. 30.

Assertion (A): Pictorial conventions in art of early historic period were unified according to geographic cultural zones.

Reason (R): Unity in stylistic conventions was due to individual choices and not due to guilds.

- a) (A) and (R) both are incorrect.
- b) (A) and (R) both are correct.
- c) (A) is correct and (R) is incorrect.
- d) (A) is incorrect and (R) is correct.

Q.no. 31.

Assertion (A): Patronage was an important aspect of monument building but it never acted as a constraint in involving new designs.

Reason (R): Patronage has been extremely effective in the selection of designs and motifs.

- a) (A) and (R) both are correct.
- b) (A) is correct and (R) is partially correct.
- c) (A) and (R) both are incorrect.
- d) (A) is incorrect and (R) is correct.

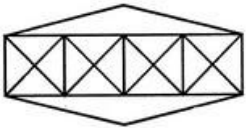
Q.no. 32. The Creative design routes are practiced by adopting the following steps in chronological order :-

1. Concentration
  2. Illumination
  3. Preparation
  4. Verification
  5. Incubation
- (Tick the correct chronology)

- a) 1, 2, 4, 5, 3
- b) 2, 3, 5, 1, 4
- c) 3, 1, 2, 5, 4
- d) 1, 2, 3, 4, 5

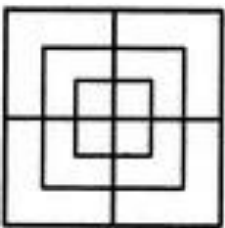
**Data Interpretation: (Q. NO. 37 – 38)**

Q. NO. 33. Count the number of triangles and squares in the given figure...



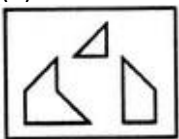
- a) 36 triangles, 7 squares
- b) 38 triangles, 9 squares
- c) 40 triangles, 7 squares
- d) 42 triangles, 9 squares

Q. NO. 34. Count the number of squares in the given figure.

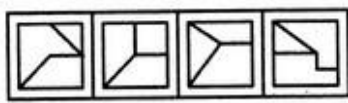


- a) 8
- b) 12
- c) 15
- d) 18

Q. NO. 35. Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure(X).



(X)



(1) (2) (3) (4)

- a) 1
- b) 2
- c) 3
- d) 4

Q. NO. 36. Select the alternative in which the specified components of the key figure (X) are found.



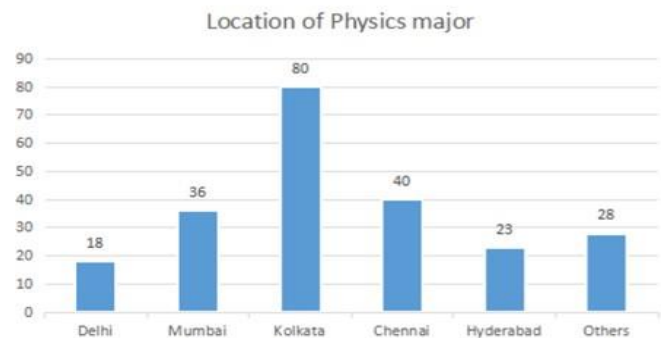
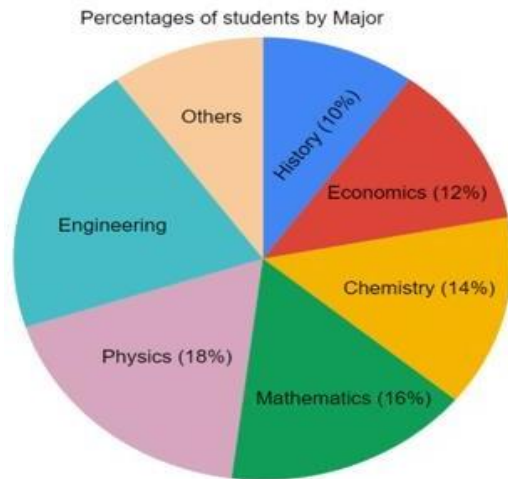
(X)



(1) (2) (3) (4)

- a) 1
- b) 2
- c) 3
- d) 4

The break-up of the students in a university by subject major is given in the polar pie-chart. The bar chart shows the number of students who major in physics by geographic location.



Q. NO. 37. How many students major in chemistry?

- a) 200
- b) 175
- c) 170
- d) 180

Q. NO. 38. 12% of all students are from Chennai. What is the largest possible percentage of economics students that can be from Chennai, rounded off to the nearest integer?

- a) 73%
- b) 77%
- c) 75%
- d) 71%

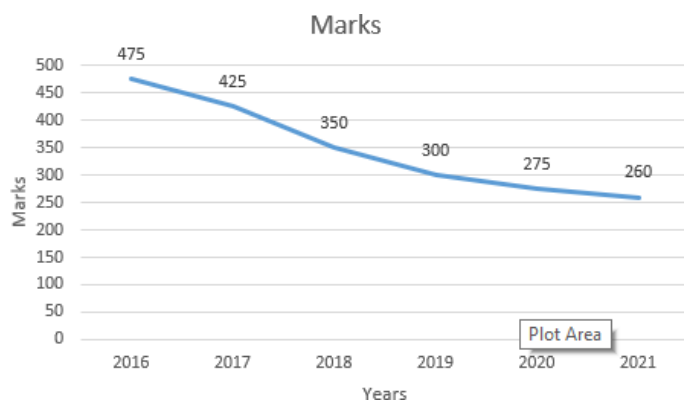
Q. NO. 39. The following table shows the data of different categories of employees of an organisation.

Employees Year	Category A		Category B		Category C	
	New	Left	New	Left	New	Left
2000	480	-	500	-	740	-
2001	150	78	240	164	230	116
2002	163	54	180	148	268	174
2003	124	102	346	188	184	98
2004	148	58	324	210	212	102
2005	137	94	182	48	158	87

What was the total number of category A, B and C employees working in the company in the year 2003?

- a) 2483
- b) 2484
- c) 2487
- d) 2469

Q. NO. 40. In a class, 5 random students are selected for the mark sheet evaluation of different academic years in which marks of Samyak, Vishal, Sumit, Ganesh and Aditya is represented in the form of line graph. Read the given line chart and answer the following questions. Refer the figure Line chart\_figure 1.



What are the average marks obtained by the students in exam in all years?

- a) 348
- b) 369
- c) 349
- d) 379

**Part – B – 60 marks**

**Evaluation criteria:** Creativity & Originality (35%), Skill & Observation (35%), Presentation (30%),

Q. NO. 41. Consider three symbols in total (one symbol from each category below) and Create a new symbol (pencil drawing with colour pencil rendering).

- Mathematics Symbol,
- Traffic sign,
- Astrological symbol

&

Make a pattern out of this newly created symbol, so that it can be used for Bedsheet design of a Kid's room (pencil drawing with colour pencil rendering) 15 marks

**Instructions:**

- A. Use only one full page for drawing leaving the required margin (Size A4).
- B. Write concept note in the given area
- C. Use only colour pencils.
- D. Paper Orientation: Portrait

Drawing area:

Or

Design a poster (render in colour pencil) based on any one of the following themes:

- Bite the bullet
- Easy does it
- Miss the boat
- No pain, no gain

&

Write a Concept Note – Maximum 100 words. ....15 marks

**Instructions:**

- A. Use only one full page for drawing leaving the required margin (Size A4).
- B. Write concept note in the given area
- C. Use only colour pencils.
- D. Paper Orientation: Portrait

Drawing area:

Q. NO. 42.

- a) Ideate, create and conceptualise a new product for carrying a toddler for outdoor trips.
- b) Write down the concept of the product in 75 words. Highlight details with needful illustrations.
- c) Design a Booth (Size: 10' X 10' X 8') for the launch of this product in any one of the Trade fairs in India. 30 marks.

**Instructions**

- A. Use full page (Size A4) for drawing leaving the required margin for each.
- B. Write concept note in the given area
- C. Use only colour pencils.
- D. Paper Orientation: Portrait/Landscape

- B. Write concept note in the given area
- C. Use only colour pencils.
- D. Paper Orientation: Portrait/Landscape

Drawing area 1

a) Drawing area
b) Drawing area
c) Drawing area

Q. NO. 43. Illustrate a jumping sequence (colour rendering in six steps) of any living creature.

Create an awareness campaign poster (colour rendering) to save the same living creature.

.....15 marks

**Instructions**

- A. Use full page (Size A4) for drawing leaving the required margin for each.
- B. Use only colour pencils.
- C. Paper Orientation: Portrait/Landscape

Working area 1
Working area 2

OR

Q. NO. 43.

Choose and draw *two variations* of any English letter/Alphabet (4' X 4'size). Take one variation as inspiration to ideate, create a furniture for sitting indoors (Colour rendering). Illustrate the process of transformation of the letter to furniture. Please specify the materials, colour and measurements of the furniture you are creating.....15 marks

**Instructions**

- A. Use full page (Size A4) for drawing leaving the required margin for each.