



## **IIAD Management Aptitude Test (iMAT) For UG**

---

### **Part A - Written Aptitude Test**

### **Part B – Personal Interview**

---

IIAD is one of the premier design institutes in India which offers an Undergraduate Programmes in Business

This is a mandatory written test of 2 hour duration, which tests the candidate's Quantitative ability, logical reasoning, comprehension, assimilative reading and data interpretation. It will also test your ability to write a well-structured, and coherently argued essay.

All the questions in the written examination booklet are to be attempted.

The second part of the iMAT is the personal interview which takes place after the written examination.

**The candidate has to appear for both parts of the iMAT; Part A, the Management Aptitude Test and Part B, the Personal Interview; in order to qualify for the assessment based on which the merit list will be prepared.**

**Total Duration: 2 Hours****Total Marks : 100****PLEASE FILL IN THE FOLLOWING INFORMATION**


Name \_\_\_\_\_

Application Form No. \_\_\_\_\_ Date \_\_\_\_\_

Room No \_\_\_\_\_ Personal Interview \_\_\_\_\_

Test Centre City \_\_\_\_\_

Candidate Signature \_\_\_\_\_

FOR OFFICIAL USE ONLY		2019/iMAT/941291
_____		_____
Invigilators Signature	Marks Obtained	Examiner's Signature

**INSTRUCTIONS**

- 1) All questions are to be attempted.
- 2) You have 2 Hours to complete the paper.
- 3) Questions 1 to 49 carries 01 mark each. Question 50 carries 6 marks.
- 4) Please read the instructions carefully before answering the question.
- 5) Please read each question carefully and select the correct option.
- 6) Answers are only to be marked with a PEN (Please do not use pencil to mark your answers).  
Answers marked in pencil will be disqualified.
- 7) There is only one correct option for Questions 1 – 49. If there is more than one correct option it is mentioned in the question.
- 8) Please use an extra sheet for Question No. 50. Please do not write anything on the paper (except marking the correct answer).

**Note: Do NOT break the seal until asked to do so**

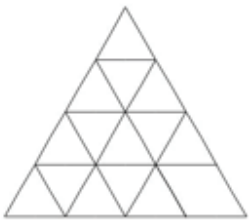
**Question 1**

Which TWO of the following statements can indicate that working out reduces your weight?  
(select two statements)

- A. Prerna is the only one in the office who works out regularly.
- B. Prerna's Weight has declined to a greater extent than anyone else's weight in the office.
- C. Prerna does not keep to a diet.
- D. Prerna recently lost more weight than anyone else in the office.
- E. Prerna worked out with a personal trainer.

**Question 2**

Find the minimum number of straight lines required to make the given figure.



- A. 9
- B. 11
- C. 15
- D. 16
- E. 6

**Question 3**

Read the five statements below

- a. Jennifer runs faster than Riya, but slower than Geeta.
- b. Esha is the slowest.
- c. Geeta and Henna run at the same speed.
- d. Henna runs faster than Esha.
- e. Riya runs faster than Anita.

Which of the statements above must be true if it can be concluded that Henna runs faster than Anita?

- A. b, c, d
- B. a, c, d
- C. a, b, c
- D. a, c, e
- E. c, d, e

**Question 4**

---

Jai looked in the mirror and said, "the father of the person I see in the mirror is Sahil's brother". Which statement below is true?

- A. Sahil is Jai's father
- B. Jai is Sahil's son
- C. Jai is Sahil's uncle
- D. Sahil is Jai's uncle
- E. None of the above

**Question 5**

---

Arun, Babita, Chaitanya, Debjani, Ena and Fatima are sitting around a table. Arun is between Ena and Fatima, Ena is opposite Debjani and Chaitanya is not in the seats on either side of Ena. Who is opposite Babita?

- A. Chaitanya
- B. Debjani
- C. Fatima
- D. None of these

**Question 6**

---

There are 5 cups inside a kitchen cabinet - a red cup, a green cup, a yellow cup, a white cup and a blue cup. The white cup is to the left (on the left hand-side) of the green cup but to the right (at the right-hand side) of the red cup. The red cup is in the left-most corner. The yellow cup is kept between the blue and the white cup. The blue cup is next to the red cup. What is the correct sequence of the cups from left to right?

- A. Red, Blue, Yellow, White, Green
- B. Blue, Green, Yellow, Red, White
- C. Green, White, Yellow, Blue, Red
- D. Red, Yellow, Blue, White, Green
- E. Red, White, Yellow, Blue, Green

The day after the day after tomorrow is four days before Monday.

What day is it today?

- A. Monday
- B. Tuesday
- C. Wednesday
- D. Thursday
- E. Friday

**Question 8**

---

From his house, A went 30 km to the North. Then he turned West and covered 20 km. He then turned South and covered 10 km. Finally turning to the East, he covered 20 km. In which direction is he from his house?

- A. South-West
- B. North
- C. South
- D. North-East

**Question 9**

---

R is the father of S; M is the sister of R; Q is the mother of M; how is Q related to S?

- A. Mother
- B. Aunt
- C. Grandmother
- D. Cannot be determined

**Question 10**

---

The sums of the weights of P and Q is more than that of R and S taken together. The weight of P is half as much as the sum of the weights of Q and S. The sum of the weights of P and R is the same as the weight of Q and S taken together. Which of the following statements must be incorrect?

- A. Q weighs more than S
- B. P weighs more than Q
- C. Q weighs more than R
- D. All the above statements are correct

**Question 11**

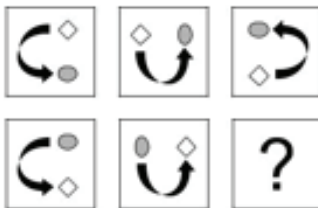
Select the correct figure as it appears in the series below:



- A
- B
- C
- D
- E

**Question 12**

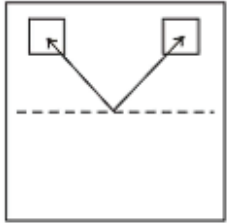
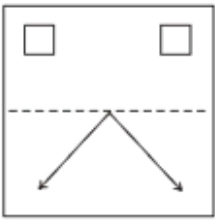
Find the missing image in the sequence



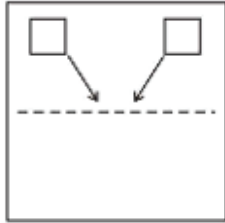
- A
- B
- C
- D
- E

**Question 13**

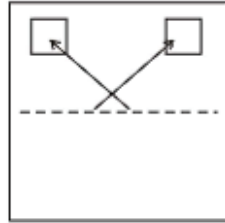
The diagram is printed on a transparent sheet. This sheet is then folded along the dotted line. What design will be visible when the sheet is folded



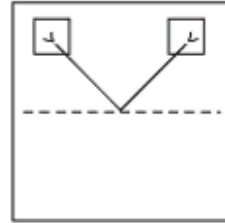
(A)



(B)



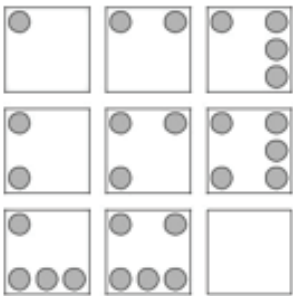
(C)



(D)

**Question 14**

Tick the correct image in the sequence of images given below



(A)

(B)

(C)

(D)




(E)















**Question 15**

You have been given three operators (Q, L, M) that changes the input to the output. The effect of the operators is mentioned clearly in the panel list. In the question below three have been done for you. In the 4th position replace the “?” with the correct operator or combination of operators to give the correct output.

**Panel**

Operator	Effect
	Changes the <u>colour</u> of all figures
	Swaps 1 <sup>st</sup> and 3 <sup>rd</sup> figure
	Changes 1 <sup>st</sup> figure (see example)

**Question**

Input	Process	Output
		
		
		
		

**Question 16**

Identify the set of words with the same relationship as  
Team : Coach

- (A) Car : Mechanic
- (B) Cooking : Chef
- (C) Musicians : Conductor
- (D) Fruit : Grocer



**Question 17**

---

The sentence has 3 parts (A) to (C). Indicate which part has an error. Should there be no error chose (D)

- (A) Lightweight and easy to handle
- (B) automatic scooters have been a
- (C) godsend for women commuters
- (D) No error

**Question 18**

---

Choose the correct sequence to complete the sentence to reads correctly

The only time

- (a) when this dynamic cricketer
- (b) was on the 1979 tour of England
- (c) Failed with the bat
- (d) The tag of an all-rounder did not fit him

- (A) dbac
- (B) acbd
- (C) dcab
- (D) abdc

**Question 19**

---

What word would be appropriate to fill in the blank? A \_\_\_\_\_ of fungi

- (A) Ream
- (B) String
- (C) Colony
- (D) Clump

**Question 20**

---

The sentence has 3 parts (A) to (C). Indicate which part has an error. Should there be no error chose (D)

- A. Umiliating
- B. Unexpected
- C. Miserable
- D. Expected

**Question 21**

---

Choose the opposite for the word "Chronic"

- A. Acute
- B. Permanent
- C. Temporary
- D. Fleeting

**Question 22**

---

Choose the alternative phrase which best explains the section in Bold

The ballerina **stole the show**.

- A. Stole something from the show
- B. Took part in the show
- C. Was the best performer in the show
- D. Disappeared from the show

**Question 23**

---

If the word **COLD** is coded as 24-12-15-23, then how should the word **LIKE** be coded?

- A. 15-18-16-22
- B. 8-14-9-16
- C. 12-9-11-5
- D. 14-17-15-21

**Question 24**

---

If the word **PROGRAMMES** has been encoded as **RAGMOMREPS** then the word **ADAPTATION** will be encoded as?

- A. ATIONADAPT
- B. ATTPIAODNA
- C. ATONIADPAP
- D. TPATAIODAN
- E. TPATAIODAN

**Question 25**

---

What is the last letter in the sequence B, D, G, I, L, ?

- A. N
- B. M
- C. O
- D. P

**Question 26**

---

Find the least number of oranges so that they can be arranged in groups of 15 or 20 or 30?

- A. 60
- B. 90
- C. 45
- D. 80

**Question 27**

---

The average marks of a student in 7 subjects is 75. His average marks in 6 subjects excluding science is 72. What were his marks in Science?

- A. 72
- B. 90
- C. 92
- D. None of these

**Question 28**

---

The ratio between the present ages of Anand and Bhavesh is 4:5. If the ratio between their ages, 5 years hence, becomes 15:17 then what is the present age of Bhavesh?

- A. 25
- B. 27
- C. 32
- D. 35

**Question 29**

---

If the price of a commodity is decreased by 16.66% then by what percent does the consumption of the commodity have to increase so as not to decrease the price?

- A. 15%
- B. 25%
- C. 30%
- D. 20%

**Question 30**

---

If an article is sold at 5% gain instead of 5% loss, the seller gets Rs. 6.72 more. What would be the cost price of the article?

- A. Rs 67.20
- B. Rs 120
- C. Rs 134.40
- D. Rs 240

**Question 31**

---

Gold is 19 times as heavy as water and copper is 9 times as heavy as water. In what ratio should these metals be mixed, so that the mixture is 15 times as heavy as water?

- A. 2.5
- B. 2.3
- C. 3.1
- D. 3.2

**Question 32**

---

Two pipes A and B can fill a tank in 12 minutes and 15 mins respectively. The pipe at the bottom of the tank can empty a full tank in 6 Mins. A and B are kept open for 5 mins in the beginning and then C is opened. In how much time will the tank be emptied?

- A. 120 Mins
- B. 30 Mins
- C. 60 Mins
- D. 45 Mins

**Question 33**

---

Find the compound interest on Rs 2000/- at 15% per annum for 2 years 4 months compounded annually.

- A. Rs 553.3
- B. Rs 789.28
- C. Rs 682.35
- D. Rs 777.25

**Question 34:**

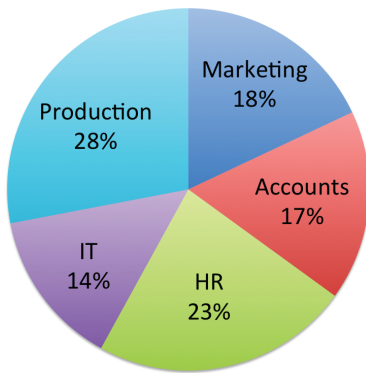
---

The curved surface area of a cylindrical pillar is 264 sq. m. and its volume is 924 m(cubed). What will be the ratio of its diameter to it height?

- A. 3:2
- B. 7:6
- C. 3:4
- D. 7:3

**QUESTION 35:** (0.25 marks each)

Percentage of employees



Percentage of the workforce - Pie Chart - total employees - 1800

Account -17% - with a ratio of 2 men : 7 women

Production - 28% with a ratio of 11 men : 1 woman

HR -14% - with a ratio of 1 man : 3 women

IT - 23 % - with a ratio of 5 men : 4 women

Marketing - 18% - with a ratio of 7 men : 5 women

- What is the number of men working in the marketing department?  
A. 132                      B. 174
- What % of the total employees are men who work in the production department?  
A. 89.76                      (B) 91.67
- What is the ratio of men working in the accounts department to the total number of employees?  
A. 9:2                      B. 7:6
- The number of women working in the IT department are what percentage of the total employees?  
A. 7                      B. 5

**QUESTION 36:**

Identify the monument in the image below.



- Char Minar
- India Gate
- Gateway of India
- Buland Darwaza

**QUESTION 37:**

---

Identify the embroidery style in the image below.



- A. Kantha    B. Chikankari    C. Phulkari    D. Zardosi

**QUESTION 38:**

---

Identify the bronze sculpture in the image below.



- A. Jain Teerthankara    B. Dancing Girl    C. Natraj    D. Female Yakshi

**QUESTION 39:**

---

Which Indian State is the leading cotton producer?

- A. Gujarat  
B. Maharashtra  
C. Andhra Pradesh  
D. West Bengal

**QUESTION 40:**

---

If there is no sun then the colour of the sky would be?

- A. Orange
- B. Blue
- C. Yellow
- D. Black

Read the passage below and answer the questions.

*(Questions 41 - 49 carry 1 mark each. Question 50 carries 6 marks)*

**READING COMPREHENSION**

If you look up the word dyslexia in the dictionary, you'll find that it is derived from the Greek word "dys" (meaning poor or inadequate) plus "lexis" (words or language). Perhaps you know someone with dyslexia. If so, you probably know one of the common problems they have is **transposing** letters or numbers. These problems can occur in listening, writing, reading, spelling or handwriting. In other words, dyslexic people process language poorly, but that doesn't mean they aren't intelligent.

Dyslexia is not related to low intelligence. Dyslexia is a unique mindset that is often gifted and productive, but learns differently than other minds. Infact some of the most brilliant minds of our time have been known to have dyslexia: Albert Einstein, Alexander Graham Bell, Thomas Edison, Winston Churchill, Benjamin Franklin, Mozart and John Lennon to mention only a few. There are people with dyslexia in many types of highly respected careers such as: Walt Disney, Tom Cruise, Danny Glover, Cher, Magic Johnson, Carl Lewis, Bruce Jenner and General George Patton. Most dyslexics often have a better sense of **spatial** relationships or better use of their right brain.

How it affects each person varies significantly. Dyslexia somehow manifests itself differentl from individual to individual. However, the only common factor seems to be that they read at levels significantly lower than typical people of a similar age and intelligence.

Reading, whether silent or aloud, has to do with processing sound. Sound is a very complex mixture of frequencies with varying intensities. Analyzing it so quickly and accurately is exceedingly difficult. Even the most sophisticated computers still have trouble analyzing sound fully. That is why many voice recognition systems are still imperfect. We analyze sounds in the inner ear, more specifically in the cochlea. If the cochlea is not analyzing sounds accurately, dyslexia can occur.

Each sound has a base frequency and some higher frequencies (or higher harmonics). When some sounds have nearly the same frequency, differing only in the higher harmonics, a person with dyslexia might misinterpret them. For example a "B" and "P" have similar



base frequencies. Likewise, a "T" and a "D" do also. When someone says to a dyslexic individual "Bob", they are not sure what was said. It could be "Bob" or "Bop" or "Pop". By the time they have figured out what was said, the speaker is already into his next sentence or maybe more. Consequently, the person with dyslexia tends to process language at a slower rate. They just have an auditory processing problem.

Reading is a complex act that requires the ears and eyes to work together synchronously. As the eyes see a letter, the ears identify the corresponding sound even when reading silently. Then, the vestibule leads the eye from letter to letter and the cochlea translates each letter into a sound. Ideally, both operations should happen almost simultaneously. The trouble starts when the delay is too long. So, if the vestibule and cochlea are not in sync, the eyes and ears are not in sync either.

To make things more complicated, each sound lasts a specific time. The ear constantly has to adjust to these rapid changes. When it does not, the eyes and ears are no longer in sync. The right sound is not put together with the right letter. Without the sound, the letter remains dead. The meaning cannot emerge. The dyslexic is left second-guessing, hoping for a miracle taking the chance to utter finally a sound that might fit the letter of the alphabet dancing on the page.

#### QUESTION 41:

---

Why does the author mention the fact that voice recognition systems are imperfect?

- A. To prove that computing technology is not as advanced as previously thought of
- B. To showcase the complexity and differences among different languages
- C. To show the similarities between the brain and the computer
- D. To showcase the complexity of sound and the difficulty in understanding sound

#### QUESTION 42:

---

According to the passage why do dyslexic individuals process language slower than other individuals?

- A. Due to dyslexia individuals tend to ignore when others are speaking to them as they are very imaginative and may not realize what is going on around them.
- B. Dyslexic individuals have difficulty in focusing on one subject at a time and are distracted when listening to others thus they may lose track after a few sentences.
- C. Dyslexic individuals have trouble in discerning the subtler variations in sounds which causes them to confuse between various letters.
- D. None of the above.

**QUESTION 43:**

---

What is the primary purpose of the passage?

- A. To explain how humans interpret sound and written material
- B. To describe how dyslexia affects the functioning of the brain
- C. To detail the techniques to cope with dyslexia
- D. To narrate the experiences of how dyslexic individuals cope with the different emotional challenges of dyslexia

**QUESTION 44:**

---

Which of the following is not true as per the passage mentioned?

- A. Dyslexic individuals have excelled in a myriad set of activities
- B. The effects of dyslexia are different for different people
- C. The eyes are the only organ required in the reading process
- D. All three of the above statements are true as per the passage

**QUESTION 45:**

---

What does the word "intensities" mean as used in the above passage?

- A. Strengths
- B. Meanings
- C. Interpretations
- D. Descriptions

**QUESTION 46:**

---

In the sentence - "If so, you probably know one of the common problems they have is **transposing** letters or numbers". Replace the word "transpose" with the opposite.

- A. retain      B. reversing      C. interchange      D. transfer

**QUESTION 47:**

---

Choose the correct phrase for the word in **BOLD**. Most dyslexics often have a better sense of **spatial** relationships or better use of their right brain.

- A. Dyslexics have a better understanding of measurements  
B. Dyslexics use both sides of their brain equally  
C. Can sense things in 2D, 3D better than those without dyslexia  
D. None of the above

**QUESTION 48:**

---

The cochlea is an organ of the \_\_\_\_\_?

- A. Ear      B. Eye      C. Brain      D. Nose

**QUESTION 49:**

---

Reading is a complex act. As per the passage, which organs of the body do not take part in this activity?

- A. Ear      B. Mouth      C. Brain      D. Eye

**QUESTION 50:**

---

Why are dyslexic people often thought of as unintelligent? Explain in a minimum of 100 words(6 marks). Please use an extra sheet for your answer.

**ANSWER KEY TO SAMPLE QUESTION PAPER**

Question	Answer	Question	Answer	Question	Answer
1	A & B	18	A	35	1D, 2B, 3C, 4D, 5A
2	B	19	C	36	C
3	D	20	A	37	B
4	D	21	A	38	B
5	C	22	C	39	A
6	A	23	A	40	D
7	A	24	D	41	D
8	B	25	A	42	C
9	C	26	A	43	B
10	B	27	C	44	C
11	D	28	C	45	A
12	A	29	D	46	A
13	A	30	A	47	C
14	C	31	D	48	A
15	E	32	D	49	B
16	C	33	D		
17	D	34	D		