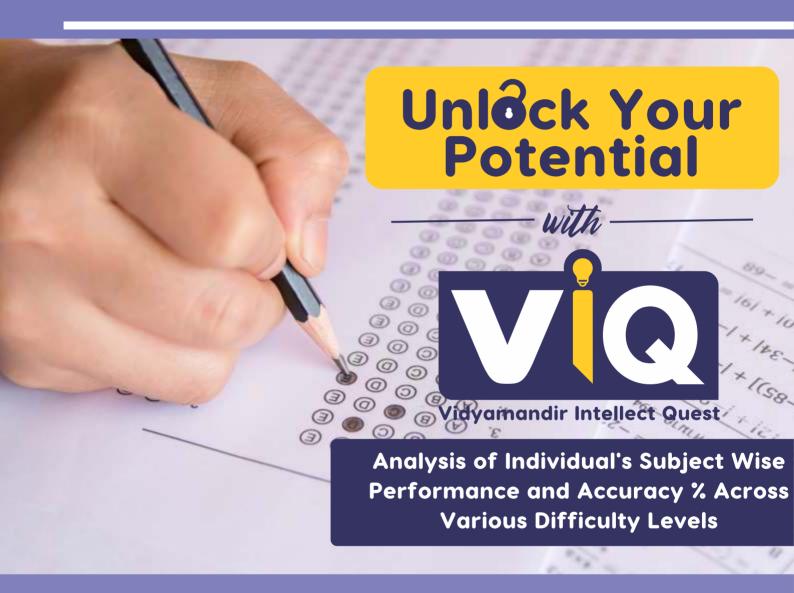


SAMPLE PAPERS



FOR STUDENTS CURRENTLY IN CLASS



PRE - FOUNDATION



Sample Paper

(Pre-Foundation)

Duration: 2.5 Hrs Maximum Marks: 300

For Students presently in class 6th (Stream: Pre-Foundation)

PAPER SCHEME:

- The paper contains **50 Objective Type Questions** divided into three sections: **Section I, Section II and Section III.**
- Section I contains 5 Multiple Choice Questions (1-5) based on Mental Aptitude. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE CHOICE is correct.
- Section II contains 15 Multiple Choice Questions (6-20) based on Science. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE CHOICE is correct.
- Section III contains 30 Multiple Choice Questions (21-50) based on Mathematics. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE CHOICE is correct.

MARKING SCHEME:

• Section I, II & III: For each question, 6 marks will be awarded for correct answer and -1 negative marking for incorrect answer.

SUGGESTIONS:

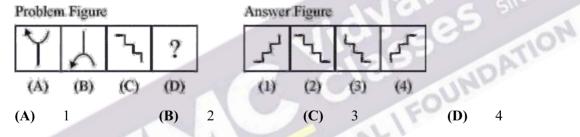
- Before starting the paper, spend 2-3 minutes to check whether all the pages are in order and report any issue to the invigilator immediately.
- Try to attempt the Sections in their respective order.
- Do not get stuck on a particular question for more than 3-4 minutes. Move on to a new question as there are 50 questions to solve.

SECTION - I [MENTAL APTITUDE]

Directions for question-1

In this question consists of two sets of figures. Figures A, B, C and D constitute the Problem Set while figures 1, 2, 3, 4 constitute the Answer Set. There is a definite relationship between figures A and B. Establish a similar relationship between figures C and D by selecting a suitable figure from the Answer set that would replace the question mark (?) in fig. (D).

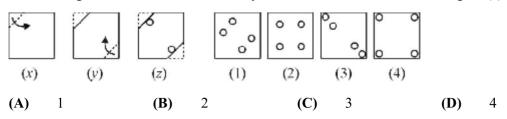
1. Select a suitable figure from the Answer Figures that would replace the question mark (?).



- 2. If A is the brother of B; B is the sister of C; and C is the father of D, how D is related to A?
 - (A) Brother (B) Sister (C) Nephew (D) Cannot be determined
- 3. Choose the alternative which is closely resembles the water-image of the given combination.

Wrote

- (V) Miole (B) Wiole (C) Wrote (D) Wrote
- **4.** If PAINT is coded as 74128 and EXCEL is coded as 93596 then how would you encoded ACCEPT?
 - (A) 455978 (B) 547978 (C) 554978 (D) 735961
- **5.** Choose a figure which would most closely resemble the unfolded form of Figure (z).



SECTION - II [SCIENCE]

6.	What	is the main goal	of mind	ful eating?								
	(A)	Counting calor	ries in e	very meal								
	(B)	Eating as quick	kly as p	ossible								
	(C)	Being fully aw	are of the	he eating experier	nce witl	nout judgment						
	(D)	Skipping meal	s to lose	eweight								
7.	Whic	h of the following	g is a red	commended pract	tice in n	nindful eating?						
	(A)	Watching TV	while ea	ating								
	(B)	Eating on the g	go									
	(C)	Chewing food	slowly	and savoring the	taste							
	(D)	Ignoring hunge	er cues									
8.	How	can mindful eatin	g contri	bute to a healthy	body?							
	(A)	By encouraging overeating at every meal.										
	(B)	By helping you	ı listen	to your body's hu	nger an	d fullness signals.	CETA					
	(C)	By making you	ı skip n	neals regularly.		13 6 5						
	(D)	By banning all	carboh	ydrates.		13 663	ON					
7.	Whic	Which of the following is NOT a characteristic of living things? (A) Growth (B) Reproduction										
	(A)	Growth			(B)	Reproduction						
	(C)	Respiration			(D)	Rusting						
	Which characteristic helps animals respond to changes in their environment?											
	(A)	Respiration			(B)	Irritability or Sensitivit	y					
	(C)	Reproduction		ME	(D)	Excretion						
11.	All li	ving things need e	energy t	o perform activiti	ies. Wh	ich process do plants use	to make their own food?					
	(A)	Digestion	TI		(B)	Germination						
	(C)	Photosynthesis	N. P.		(D)	Fermentation						
12.	Whic	h of the following	gobject	s will a magnet at	tract?							
	(A)	A plastic spoor	1	_	(B)	A wooden stick						
	(C)	An iron nail			(D)	A glass marble						
13.	What	happens when yo	ou bring	the north poles of	of two n	nagnets close to each othe	r?					
	(A)	They attract		•	(B)	They repel						
	(C)	They stick toge	ether		(D)	Nothing happens						
14.	Wher	e is the magnetic	force of	f a bar magnet the	e strong	est?						
	(A)	At the center			(B)	At the ends (poles)						
	(C)	Equally all ove	er		(D)	Only on one side						
15.	What	What is the SI unit of speed?										
= 7	(A)	metre	(B)	metre/second	(C)	kilometre/hour (D)	second					
	. /		. /		. /	` '						

16. A car travels 150 km in 3 hours. What is its average speed?

- (A) 50 km/h
- **(B)** 45 km/h
- 60 km/h **(C)**
- **(D)** 30 km/h

17. Which of the following is NOT a unit of temperature?

- (A) Celsius
- **(B)** Kelvin
- **(C)** Pascal
- **(D)** Fahrenheit

18. Which device is used to measure temperature accurately?

- Barometer (A)
- **(B)** Thermometer
- Hygrometer **(C)**
- **(D)** Ammeter

19. Which of the following is a natural material?

- **(A)** Plastic
- **(B)** Glass
- **(C)** Cotton
- **(D)** Steel

20. Which material is best suited to make cooking utensils?

- Wood (A)
- **(B)** Paper
- **(C)** Metal
- **(D)** Rubber

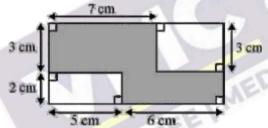
SECTION - III [MATHEMATICS]

21. Which pair of operations will make the equation below true when inserted into the blank spaces in the order shown?

$$2\frac{3}{10}$$
 _____1.5 ____2 = 1.8

- **(A)** -and +
- \times and +
- +and-(C)
- **(D)**

ICAL | FOUNDA For the figure shown below, find the area, in cm^2 , of the shaded portion. 22.



- (A) 33
- (B) 44
- **(C)** 48
- **(D)** None of these

23. The difference between the largest 8 digit number and the smallest 6 digit number is:

- 100099999 **(A)**
- 99899999 **(B)**
- 99989999 **(C)**
- **(D)** 99998999

The statement "When an integer is added to itself, the sum is greater than the integer" is: 24.

(A) Always true

- **(B)** Never true
- **(C)** True only when the integer is positive
- **(D)** True for non-negative integers

25. The difference between place values of digit 5 in 456.385 is:

- 49995 **(A)**
- **(B)** 499.95
- **(C)** 49.995
- **(D)** 49,999

Evaluate: -1+55-(-29)+(-1)-(-82)+(-3)26.

- 161 **(A)**
- **(B)** -161
- **(C)** 158
- **(D)** -158

A fraction is equivalent to $\frac{5}{8}$. Its denominator and numerator add up to 91. What is the difference 27.

between the denominator and numerator of this fraction?

- **(A)** 21
- **(B)** 33
- **(C)** 13
- **(D)** 19

(A)

(ii)

(B)

(iii)

28.	What (A)	is the value of 8937000	'8937×6	48+8937×122 8936000	2+8937×2 (C)	230'? 893800	(D)	8935000		
29.	Neelam's annual income is Rs. 288000. Her annual savings amount to Rs. 36000. The ratio of her savings to her expenditure is:									
	(A)	1:8	(B)	1:7	(C)	1:6	(D)	1:5		
30.		many parts sho gure P?		nded in the Fig	ure Q to m	nake it the sam	e fraction	as the unshaded part in		
			Figure P	ure Q				-24		
	(A)	3	(B)	4	(C)	8	(D)	12		
31.	Whic	h of the followi	ng numbe	ers is divisible	by both 3	and 5?	3	ogb .		
	(A)	27	(B)	45	(C)	32	(D)	50		
32.	The a	reas of squares	P and O :	are in the ratio	4 · 9 If th	e area of P is	144 sa cm.	find the perimeter of Q.		
	(A)	17 cm	(B)	72 cm	(C)	27 cm	(D)	324 cm		
22		l C 41 C-11i	c	NOT 1-		35	100	7.11		
33.	(i)	h of the followi	ng ngure	s are NOT por	ygons?	100 E O	E	_C		
	1	p F R		A	B	4	ı F	A _B		
	(iv)	F D D	(v)	B C	\int_{D}^{E}					
	(A)	(i), (ii) and (v)		(B)	(i), (ii) and	(iii)			
	(C)	(i), (iii), (iv)	•		(D)	(i), (ii), (iii)				
34.		thlete takes 10 ed by him.	rounds o	of a rectangula	ır park, 40	0 m long and	30 <i>m</i> wic	le. Find the total distan		
	(A)	1400 m	(B)	700 m	(C)	70 m	(D)	2800 m		
35.	Follo Figur		e formed	by joining six 1	unit square	es. Which figu	re has the	smallest perimeter in		
	(i)	(í		(iii)	,	iv)				

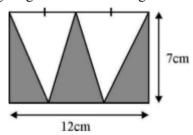
(C)

(iv)

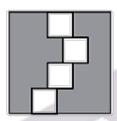
(D)

(i)

The figure given shows rectangle. Find the area of the shaded region within the rectangle. 36.



- $28cm^2$ **(A)**
- $38cm^2$ **(B)**
- **(C)**
- **(D)**
- Pranay spent $\frac{1}{8}th$ of his money on food. He spent 3 times as much as what he spent on food on a pair of **37.** shoes and $\frac{1}{3}rd$ of it on transport. What fraction of his money was left?
- **(B)**
- (C) $\frac{1}{2}$
- **(D)**
- The figure below shows 4 identical squares which lie within a big square. If the area of the big square is 38. 784 cm², find the shaded area of the given figure.



- $637 \, cm^2$ (A)
- $588cm^2$ **(B)**
- $688cm^2$ (C)
- FOUNDATION $528cm^2$ **(D)**
- Two regular hexagons of perimeter 30 cm each are joined as shown in the figure. The perimeter of the 39. IIT JEE new figure is:



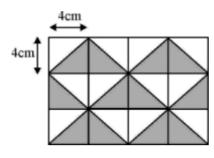
- **(A)** 65 cm
- **(B)** 60 cm
- **(C)** 55 cm
- **(D)** 50 cm
- 40. The ratio of the number of big dogs to the number of small dogs at a pet show is 3:17. There are 80 dogs, in total, at this pet show. How many big dogs are there?
 - (A) 12
- **(B)** 20
- **(C)** 24
- **(D)** 6
- Three squares P, Q and R are such that the perimeter of P is $\frac{2}{3}$ the perimeter of Q, and the perimeter of Q 41. is $\frac{2}{3}$ the perimeter of R. If the area of P is 16 sq. units, what is the area of R?
 - (A) 9 sq. units
- **(B)** 81 sq. units
- **(C)** 64 sq. units
- **(D)** 36 sq. units

42. The marks (out of 10) obtained by 28 students in a Mathematics test are listed as below:

8, 1, 2, 6, 5, 5, 5, 0, 1, 9, 7, 8, 0, 5, 8, 3, 0, 8, 10, 10, 3, 4, 8, 7, 8, 9, 2, 0

The number of students who obtained marks more than or equal to 5 is:

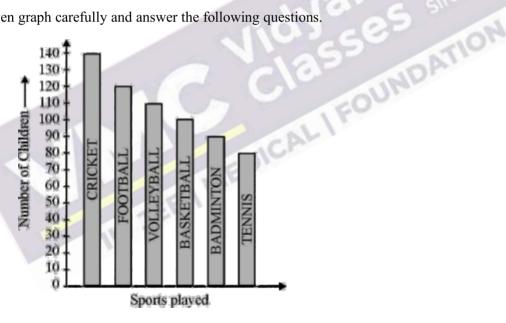
- 13 **(A)**
- **(B)** 15
- **(C)** 16
- **(D)** 17
- 43. The given rectangle is made up of 12 squares. Find the area of the shaded region.



- $60cm^2$ **(A)**
- $48cm^2$ **(B)**
- **(C)** $96cm^2$
- $24 cm^2$ **(D)**

Directions for Questions 44-45

Study the given graph carefully and answer the following questions.



- 44. What fraction of the total number of children plays football?
 - **(A)**

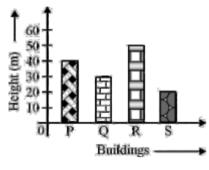
(B)

11 **(C)**

- **(D)**
- 45. The difference between the number of children who play tennis and cricket altogether and basketball and volley ball altogether is:
 - **(A)** 20

40 **(B)**

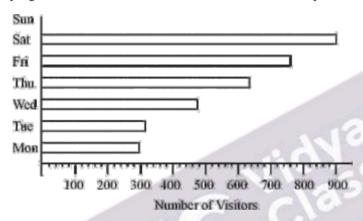
(C) 10 **(D)** 50 **46.** Which building is 20 m taller than the shortest?



- (A) P
- **(B)** Q
- **(C)** R
- **(D)**

S

47. The graph given shows the number of visitors to a zoo in a particular week.



On which day was the number of visitors thrice that on Monday?

- (A) Sunday
- (B) Saturday
- (C) Friday
- (**D**) Thursday

48. Which of the following figures has more than three lines of symmetry?









(C)







49. What comes next in the pattern?

2, 4, 8, 16, ___

- **(A)** 18
- **(B)** 24
- **(C)** 32
- **(D)** 64

50. What is the rule in the pattern?

5, 10, 20, 40, 80

- (A) Multiply by 2 (B)
 - **(B)** Add 5
- **(C)** Add 10
- **(D)** Subtract 5

అా అా ఆ End of Sample Paper | Class 7 (Pre-Foundation) ఆ ఆ ఆ

Answer Key | (Pre-Foundation) | Sample Paper

MENTAL APTITUDE

1	2	3	4	5
Α	D	С	А	С

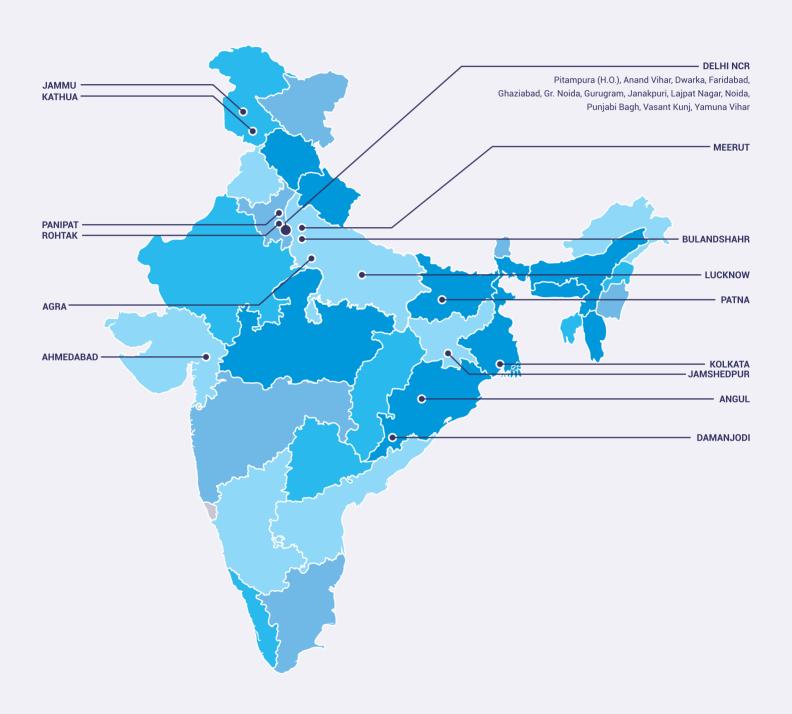
SCIENCE

6	7	8	9	10	11	12	13	14	15
С	С	В	D	В	С	С	В	В	В
16	17	18	19	20					
Α	С	В	С	С					

MATHEMATICS

21	22	23	24	25	26	27	28	29	30
С	Α	В	С	С	Α	Α	Α	В	D
31	32	33	34	35	36	37	38	39	40
В	В	С	Α	D	С	D	В	D	А
41	42	43	44	45	46	47	48	49	50
В	D	С	Α	С	Α	В	С	С	А

VMC CENTRES ACROSS INDIA



 Head Office: Aggarwal Corporate Heights, 1st Floor, Netaji Subhash Place, Opp. Wazirpur Depot, Pitampura, Delhi.
 Ph.: (011) 45221191 - 92

www.vidyamandir.com

