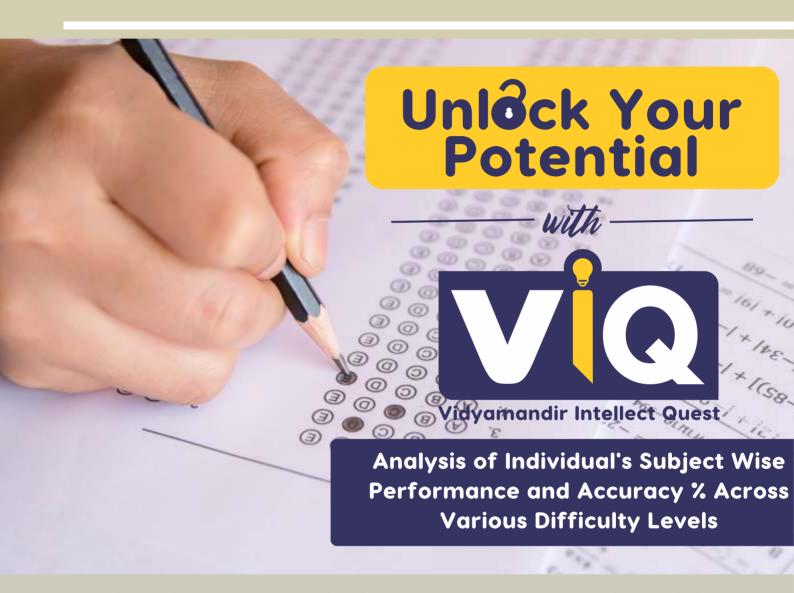


SAMPLE PAPERS



FOR STUDENTS CURRENTLY IN CLASS

7th

PRE - FOUNDATION



Sample Paper

(Pre Foundation)

Maximum Marks: 300

Duration: 2.5 Hrs

For Students Presently in Class 7th (Stream: Pre-Foundation)

PAPER SCHEME:

- The paper contains 50 Objective Type Questions divided into three sections: Section I, 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.

			SE	CTION - I [M	ENTAL	APTITUDE]				
1.	In a co		ETTER i		29, and		ow is BU	TTER coded in that code?		
	(A)	357729	(B)	537729	(C)	357792	(D)	537792		
2.	If + m	neans /, × means	–, / mea	$ns \times and - mean$	s+, ther	$18 + 6 \times 4 / 3 -$	4 equals:			
	(A)	- 2	(B)	- 20/3	(C)	4	(D)	-4		
3.	is half	*	am. Vish	al is half the ag		eru and Raghu i	is twice t	s old as priyatham. Raght he age of Karthik. Who is		
	(A)	Veeru	(B)	Karthik	(C)	Vishal	(D)	Raghu		
4.		-		a photograph, V n photograph rel			aughter o	f the father of the sister of		
	(A)	Daughter	(B)	Wife	(C)	Mother	(D)	None of these		
5.	3	4 3 8	9	(1)		0	24			
	What	term will come	in place	of question mark	s (?)					
	(A)	144	(B)	169	(C)	210	(D)	250		
				SECTION -	· II [SCI	ENCE]				
6.	Whiel	n solution is use	d to test	the starch?	1					
	(A)	Chlorine Solu			(B)	Iodine solution	on			
	(C)	Both of these			(D)	None of these	e			
7.	Rhizo	pus is a:		× 3.						
	(A)	Autotroph	(B)	Heterotroph	(C)	Saprophyte	(D)	None of these		
8.		mode of nutriti		llowed when an	organis	m makes its fo	od from	carbon dioxide and water		
	(A)	Heterotrophic	nutrition	n	(B)	B) Saprotrophic nutrition				
	(C)	Autotrophic n	utrition		(D)	Holozoic nutrition				
9.	Whiel	h of the followin	g best de	escribes the char	acteristic	c of materials w	hen it be	comes warm?		
	(A)	Contract	(B)	Vaporize	(C)	Float	(D)	Expand		
10.	If you heat fi		d undern	eath but not touc	ching a k	cettle of hot wat	er. You r	nainly feel the presence o		

(C)

Radiation

(D)

Evaporation

Convection

Conduction

(A)

(B)

11.	Which (A) (B) (C) (D)	Heat from th Heating of w Warm air ris	e Sun rea vater in a print of the sum of the	ching the Earth	the atm	•	nature?		
12.	What (A) (C)	A switch onl	у	urrent to flow in pattery & wires	a circuit (B) (D)	? A battery only A bulb only			
13.	A Un: (A)	iform Motion ta Curved Path	akes place (B)	e in: Straight Path	(C)	Circular Path	(D)	Both A and B	
14.			with same	C		irections will hav Different speed Different veloc	re: d	2000 1 41.0 2	
15.		emical reaction $f_3(g) + 5O_2(g)$ Displacement Redox reaction 1 and 2	\rightarrow 4NO nt reaction	$O(g) + 6H_2O(g)$	2. 4. (C)	Combination r Neutralisation 1 and 3		1 3 and 4	
16.	CuS0 increa	O ₄ and NaCl value in the tempor on falls. Which Exothermic particles in Endothermic Exothermic particles in Endothermic particles in Endothermic	were added erature of one of the process has been process has process has process has process has process has been process has	ed to the beaker	s A, B entained ment(s) akers A eakers A aker C eaker C	and C respective in A and B, who is (are) correct? and B A and B	ely. On	ount of NaOH, anh Observing, there v C, the temperature 2 and 3	was ar
17.	The ra	atio of hydroger 1 : 8	n and Oxy (B)	ygen in water, by 2 : 1	mass is	:: 1:2	(D)	1:1	
18.		n of the followi Rubber	ng materi (B)	als is a good con Plastic	ductor (C)	of electricity? Copper	(D)	Wood	
19.	Which (A)	n of the followi Wood	ng materi (B)	als allows light t Frosted glass	o pass tl	nrough completel Clear glass	y? (D)	Cardboard	
20.	Which (A) (C)	h organ in huma Large Intesti Small Intesti	ne	loes not secrete d	igestive (B) (D)	juices: Stomach Oesophagus			
21.	The	at of pagative =		ECTION - III [
<i>4</i> 1.	(A) (C)	Natural num Composite n	bers	na whole number	(B) (D)	Integers Prime numbers	S		

•						_		,	J				
22.	Whic	Which of the following statements is FALSE?											
	(A)	2 and -2 are	e additive i	nverse									
	(B)	The produc	t of two od	d numbers is a	always an e	ven number							
	(C)	-		en numbers is	always an	even number							
	(D)	None of the	e above										
23.		um of 3 odd n					(D)	0					
	(A)	Even	(B)	Odd	(C)	Can't say	(D)	0					
24.	On th	On the number line, how many steps will you move when move from -3 to $+3$.											
	(A)	3	(B)	6	(C)	7	(D)	4					
25.	State	ment q: whe	_	=	_	-		vays get a positive into we always get a neg	_				
	_	er, then.			(D)	. :	. :- C-1						
	(A) (C)	Both p and p is false, a	_		(B) (D)	p is true and or Both p and q		96					
	` ,	•	•		` ′		arc raisc						
26.	Simp	lify: $[15 \div 3]$	+ 10{60 -	$-8 \div 4 + 3 (5)$	$(\sqrt{3-7})$	}]		y ,					
	(A)	– 20	(B)	-15	(C)	12	(D)	16					
27.	- (-9	(-6) = ?				0,							
	(A)	-15	(B)	-3	(C)	3	(D)	None of these					
28.	0 ÷ ((-4) = ?				9	$\nabla V $						
	(A)	-4	(B)	0	(C)	Not defined	(D)	4					
29.	The v	alue of 3 and 2	2 third × 2	and 1 fourth ÷	+ 11 is:								
	(4)	$\frac{2}{3}$	(B)	$\frac{3}{4}$	(C)	1	(D)	1					
	(A)	3	(B)	4	(C)	3	(D)	$\frac{1}{4}$					
30.	Giver	that $a/b = c/a$	d, then which	ch of the stater	nents is tru	e?							
	(A)	a/c = b/d	(B)	ad = bc	(C)	ac = bd	(D)	All except C					
31.	How	many more p	oarts shoul	d be shaded in	n the figur	e B to make it	represen	t the same fraction as	s the				
		ided part of the					1						
			- 111	ППП									
				3									
		Figure A	i	Figure B									
	(A)	4	(B)	5	(C)	10	(D)	8					
32	India	won 6 games	lost 4 and	drawn 2 Wha	t fraction o	f the games did	India no	at lose?					

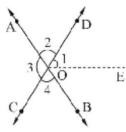
India won 6 games, lost 4 and drawn 2. What fraction of the games did India not lose?

(A) $\frac{1}{2}$ (B) $\frac{1}{3}$ (C) $\frac{2}{3}$ (D) $\frac{1}{6}$

Ravi reads $\frac{4}{5}$ of a book. He finds that there are still 100 pages left to be read. What is the total number of 33. pages he had read in the book?

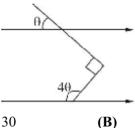
(A) 100 **(B)** 500 **(C)** 300 **(D)** 400

- **34.** Which of the following statements is true?
 - (A) Fractions with the same numerator are called unlike fractions
 - **(B)** Fractions with the same denominator are called like fractions
 - (C) Difference of two like fractions = difference of numerators/common denominator
 - **(D)** Both B and C
- 35. In the figure below *OE* is the bisector of $\angle BOD$. If $\angle 1 = 70^{\circ}$, then find the sum of Angles 2, 3 & 4.

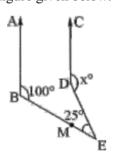


- **(A)** 190
- **(B)** 220
- **(C)** 240
- **(D)** 260
- **36.** If an angle is five times to its complementary angle, then find the supplementary angle of that angle:
 - **(A)** 15°
- **(B)** 75°
- **(C)** 105°
- **(D)** 30°

37. Find the value of 2θ in the figure:

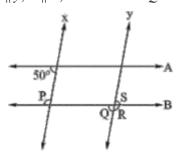


- (A)
- **(B)** 60
- **(C)** 4
- **(D)** 75
- 38. In the figure given below: $AB \parallel CD$, $\angle ABE = 100^{\circ}$, $\angle DEM = 25^{\circ}$. Find $\angle CDE$.



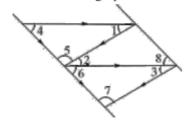
- **(A)** 55
- **(B)** 105
- **(C)** 125
- **(D)** 155

39. Line x || y, A || B, then find P + Q + R - S.



- **(A)**
- 360°
- **(B)** 330°
- **(C)** 260°
- **(D)** 130°

40. Which of the following options is/are INCORRECT?



 $\angle 1 = \angle 3 = 90$ (A)

 $\angle 1 + \angle 4 + \angle 5 = 180$ **(B)**

 $\angle 1 + \angle 6 = 180$ **(C)**

- Both A and C **(D)**
- ABC is an isosceles triangle with AB = BC and BD is altitude, then: 41.
 - **(A)** $\angle B = \angle C$
- **(B)** $\angle A = \angle C$
- **(C)** $\angle B = \angle A$
- **(D)** None of these

- 42. In a triangle, the sum of any two sides must be:
 - (A) Less than the third side
- **(B)** Equal to the third side
- **(C)** Greater than the third side
- **(D)** Perpendicular to the third side
- The product of $\frac{4p}{3}$ 5 and $\frac{5p}{4}$ 4. 43.
 - (A) $\frac{5p^2}{3} 139 \frac{p}{12} + 20$

(B) $\frac{5p^2}{3} - 139\frac{p}{12} - 20$

(C) $\frac{5p^2}{2} + 139\frac{p}{12} - 20$

- **(D)** $\frac{5p^2}{2} + 139\frac{p}{12} + 20$
- The expression $5p^2q 20pq$ when subtracted from $4p^2q 16pq$ becomes: 44.
- $p^2q 4pq$ (B) $-p^2q 4pq$ (C) $-p^2q + 4pq$ (D) $p^2q + 4pq$
- If $x + \frac{1}{x} = 14$ and $x^2 \frac{1}{x^2} = 84$, then the value of $x \frac{1}{x}$ is: 45.
 - **(A)**

- **(D)** None of these
- Which of the expression represents 2 less than x is equal to y less than 3? 46.
- x-2=3-y **(B)** 2-x=3-y **(C)** x+2=y+3
- If $x^2 2x + 1 = 0$, then find $x^2 + \frac{1}{x^2} = ?$ (Where x is a natural number) 47.
 - (A)
- **(B)**
- **(C)**
- **(D)**
- Subtract (2a 3b + 4c) from the sum of (a + 3b 4c), (4a b + 9c) and (-2b + 3c a). 48.
 - 3a + 2b 4c**(A)**
- **(B)** 2a-2b+4c **(C)** 5a+4b-2c **(D)** 2a+3b+4c

1

- The age of R is 2 yrs more than $\frac{1}{2}$ the age of B. Then it can be represented by: 49.
 - (A) R = B + 4
- R = 2B + 4**(B)**
- **(C)** 2R = B + 4
- **(D)** $R = \frac{1}{2} B 2$
- 50. Ravi spends Rs. x daily and saves Rs. 2y per week. What is his income in 3 weeks?
 - Rs. (21x + 6y) **(B)**
- Rs. (3x + 9y) (C)
- Rs. (21x + 3y) **(D)**
 - Rs. (7x + 3y)

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Vidyamandir Classes

Answer Key | (Pre Foundation) | Sample Paper

MENTAL APTITUDE

1	2	3	4	5
В	В	В	D	D

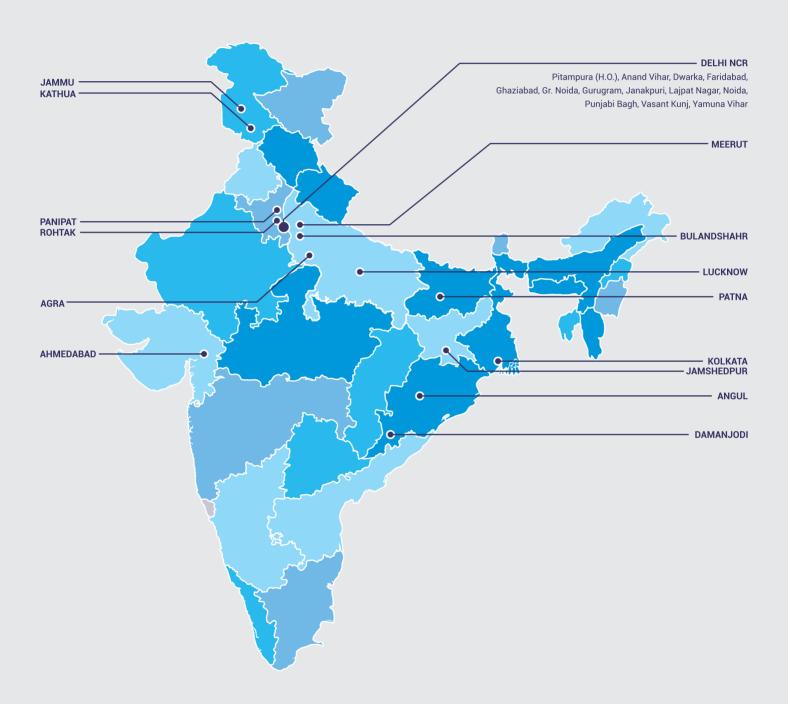
SCIENCE

6	7	8	9	10)	11	12	13
В	С	С	D	С		С	С	В
14	15	16	1	7		18	19	20
D	С	В	A	4		С	С	D

MATHEMATICS

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

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