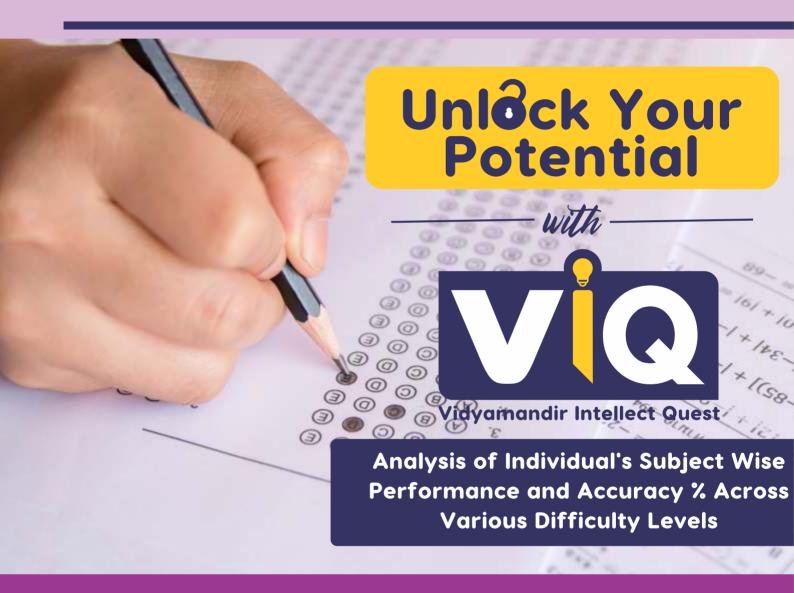


SAMPLE PAPERS



FOR STUDENTS CURRENTLY IN CLASS

5th

PRE - FOUNDATION



Sample Paper (Pre-Foundation)

Duration: 2.5 Hrs Maximum Marks: 300

For Students presently in Class 5th (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:

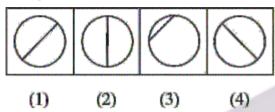
• **Section I, II & III**: For each question, **6 marks** will be awarded for correct answer and **-1 negative marking** for incorrect answer.

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]

1. Choose the figure which is different from the rest.



(A)

1

(B)

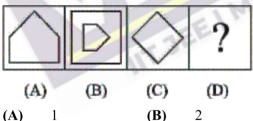
2

3 **(C)**

2. 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).

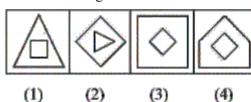
Select a suitable figure from the Answer Figures that would replace the question mark (?).

Problem Figures:



(A) 1 2

Answer Figures:



(C) 3

(3)**(D)**

- 3. A and B are brothers. C and D are sisters. A's son is D's brother. How is B related to C?
 - **(A)** Father
- **(B)** Brother
- **(C)** Uncle
- **(D)** Grandfather

4

- 4. Choose the alternative which is closely resembles the water-image of the given combination. monday
 - **(1)** yadnom
- monday **(2)**
- yadnom **(3)**
- mon da y **(4)**

- (A) 1
- **(B)** 2
- **(C)** 3
- **(D)** 4
- 5. If air is called green, green is called blue, blue is called sky, sky is called yellow, yellow is called water and water is called pink, then what is the color of clear sky?
 - Blue **(A)**
- **(B)** Sky
- Yellow **(C)**
- **(D)** Water

SECTION - II [SCIENCE]

6.	The muscles found in front of your thighs are known as:												
	(A)	Iris	(B)	Cerebrum	(C)	Quadriceps	(D)	Melanin					
7.	Read	the statements o	careful	ly and choose the c	correct of	otion:							
	Staten	nent A : There a	are 2 s	tomachs in the hum	nan body								
	Staten	atement B: There are 2 lungs in the human body											
	(A)	A is true			(B)	B is true							
	(C)	Both A and E	3 are tr	ue	(D)	Both A and E	are Fals	e					
8.	Match	Match the following:											
	A	Lungs	1	Urinary syste	m								
	В	Kidneys	2	Nervous syste	em			AII					
	С	Stomach	3	Respiratory sys	tem		Ma	ab					
	D	Brain	4	Digestive system	em		C.	CE 1900					
	(A)	A-3 B-1 C-4	D-2		(B)	A-2 B-3 C-1	D-4						
	(C)	A-1 B-2 C-3	D-4		(D)	A-4 B-3 C-1	D-2	MON					
9.	What	simple machine	e uses a	a slanted surface th	at conne	cts a lower leve	l to a hig	her level ?					
	(A)	Inclined Plan	e (B)	Screw	(C)	Wedge	(D)	Lever					
10	Δ dry	A dry comb after combing the hairs is brought near the tiny pieces of paper, what happens?											
10.	(A)	A CONTRACTOR OF THE PARTY OF TH	1	1			aper, wii	at nappens.					
	(B)	The paper pieces will get repelled due to magnetic force The paper pieces will get repelled due to electrostatic force											
	(C)	200		ill get attracted and			electrost:	atic force					
	(D)			ill get attracted to c				1110 10100					
			TIT	100									
11.	(i) Sci							gs are example of levers?					
	(A)	(i) and (iv)	(B)	(ii) and (iv)	(C)	(i), (ii) and (i	ii) (D)	(i), (ii), (iii), (iv)					
9. 10. 11. 12.	Which of the following takes place when water vapour changes into ice?												
	(A)	Condensation	(B)	Vaporisation	(C)	Desublimatio	n (D)	Evaporation					
13.	Which	n of the followin	ng is a	physical change?									
	(A)	Melting of ic	e		(B)	Baking of Ca	ke						
	(C)	Breaking of (Glass		(D)	Both A and C							
14.	Which	n of the following	ng can	be compressed eas	sily?								
	(A)	A block of wood				A Glass of milk							
	(C)	Balloon filled	d with	air	(D)	All of these							
15.	Which Disease is caused by Vitamin B1 deficiency?												
•	(A)	Rickets	(B)		(C)	Pellagra	(D)	Gingivitis					
			` ′			_		-					

4

16. Deficiency of which element is caused by using purgatives on a regular basis?

- (A) Iron
- **(B)** Potassium
- (C) Iodine
- (D) Sodium

17. Select the group of Diseases that spread by the same means or have the same cause:

- (A) Goitre, Anaemia, Scurvy
- (B) Dengue, Malaria, Night Blindness
- (C) Cholera, Typhoid, Allergy
- (D) BeriBeri, Malaria, Pellagra

18. Herbicides are used to :

(A) Remove the weeds

(B) Remove the insects

(C) Beautify the fields

(D) Make the crops healthier

19. Eating Fish is healthy as compared to meat because fish contains :

(A) Essential vitamins

- **(B)** Essential fatty acids
- (C) More essential vitamins and Proteins
- (**D**) All the nutrients of food

20. In addition to proteins and carbohydrates, the other elements of nutritional value in milk include:

(A) Potassium and iron

- **(B)** Calcium and potassium
- (C) Calcium, potassium and iron
- (D) Calcium and iron

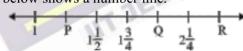
SECTION - III [MATHEMATICS]

Vijay and Ajay are filling a fish tank with water. Vijay fills $\frac{1}{5}$ of the tank. Then Ajay fills $\frac{2}{5}$ of the tank.

How much of the tank have they filled in all?

- $(A) \qquad \frac{3}{25}$
- **(B)** $\frac{3}{10}$
- **C**) $\frac{3}{5}$
- **(D)** $\frac{2}{5}$

22. Figure below shows a number line.



The value of P+Q+R is:

- **(A)** $5\frac{1}{4}$
- **(B)** $5\frac{1}{2}$

7

(C) $5\frac{3}{4}$

8

(D) $6\frac{1}{4}$

23. The number 2*3* has the same digit in the place of the asterisks and is divisible by 3. Which of the following digits should replace the asterisks?

- **(A)** 6
- **(B)**
- (C)

(D)

9

24. There are 45 animals in a pet shop. $\frac{2}{3}$ of them are puppies, 6 of them are parrots and the rest are kittens.

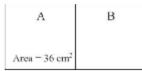
How many kittens are in the pet shop?

- **(A)** 10
- **(B)** 9
- **(C)** 8
- **(D)** 7

25. Sameer was told to multiply 126 by 32. Instead he multiplied 126 by 23. The difference in his answer, is:

- **(A)** 1134
- **(B)** 1143
- **(C)** 2898
- **(D)** 4032

26. The adjoining figure is made up of 2 similar squares, A and B. Find the perimeter of the figure if the area of square A is 36 cm².



- (A) 24 cm
- **(B)** 48 c
- (C) 30 cm
- **(D)** 36 cm

27. The decimal representation of $6 + 2\frac{21}{25} + \frac{9}{1000}$ is:

- **(A)** 6.849
- **(B)** 8.0849
- **(C)** 8.849
- **(D)** 8.93

28. Find the value of the expression $\frac{2012 + 2012 + 2012 + 2012 + 2012 + 2012 + 2012 + 2012}{2012 + 2012 + 2012 + 2012}$

- **(A)** 6036
- **(B)** 2012
- (C)
- **(D)** $1\frac{3}{2}$

29. How many numbers containing 8 in their tens place are there between 300 and 400?

- **(A)** 9
- **(B)** 10
- **(C)** 19
- **(D)** 20

30. What is the difference of the greatest 7 digit number and the smallest 5 digit number?

- **(A)** 9, 98, 099
- **(B)** 99, 899
- **(C)** 9, 98, 999
- **(D)** 99, 89, 999

A number is made up of 3 digits. The digit in the hundred's place is twice the digit in the one's place. The digit in the ten's place is 1 less than the digit in the one's place. If the digit in the ten's place is 2. What is the number?

- **(A)** 623
- **(B)** 432
- **(C)** 622
- **(D)** 224

32. The pictograph shows the number of eggs sold by a trader in three days.

Monday	000
Tuesday	000
Wednesday	000

represents 25 eggs.

If the trader still had 115 eggs left after the three days, calculate the number of eggs he had at first.

- **(A)** 185
- **(B)** 300
- **(C)** 215
- **(D)** 415

33. What is the missing sign in the box?

$$4\frac{1}{5} + 9\frac{1}{5} - 3\frac{1}{3}$$
 $6\frac{1}{4} - 8\frac{1}{4} + 5\frac{1}{4}$

- (A)
- **(B)** =
- (C) >
- **(D)** Can't be determined

34. Monu is thinking of a four digit number.

- The fourth digit is the greatest.
- When the third digit is divided by the first digit, the quotient is 2.
- The difference between the second and third digit is 1.
- The first digit is double of 2.
- **(A)** 3768
- **(B)** 4789
- **(C)** 5698
- **(D)** 1239

35. In a semi-final match against Pakistan, runs scored by M.S. Dhoni was divisible by 11, 7 and 2. If total score of India is 302 runs, then find the runs scored by M.S. Dhoni is:

- **(A)** 144
- **(B)** 154
- **(C)** 124
- **(D)** Data is not sufficient

36. Which expression is true?

- (A) $\frac{1}{5} > 0.2$
- **(B)** $\frac{1}{4} < 0.25$
- (C) $\frac{1}{4} > 0.5$
- **(D)** $\frac{1}{4} > 0.2$

37. Which of the following numbers is divisible by 24?

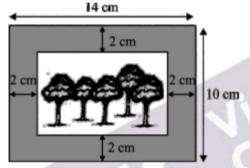
- **(A)** 88888
- **(B)** 76542
- **(C)** 301632
- **(D)** 30567

38. What is the missing number in the box?

$$3\frac{3}{4}$$
, $3\frac{1}{2}$, $\boxed{?}$, 3 , $2\frac{3}{4}$

- **(B)**
- **(C)**

39. The figure shows a framed picture.



Find the area of the picture in cm².

- 96 **(A)**
- **(B)**
- **(C)**
- 60

72 FOUNDATI Figure below shows an incomplete bill of the items bought by Mary. She paid the shopkeeper Rs. 50. 40.

Quantity	Item	Price per kg	Price
1.5 kg	Biscuits	Rs. 9.00	
4 kg	Beans	Rs. 3.50	
1 kg	Cooking oil	Rs. 4.80	

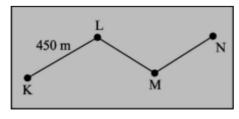
What else can she buy with the balance of the money?

3 kg of biscuits **(A)**

(B) 5 kg of beans

(C) 4 kg of cooking oil **(D)** 1 kg of biscuit and 2 kg of cooking oil

The figure shows the road map of four places, K, L, M and N. The distance from K to L is the same as the 41. distance from L to M. The distance from M to N is $\frac{1}{3}$ of the distance from K to M.



What is the distance in km, from K to N?

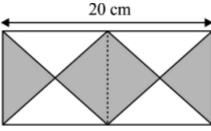
- **(A)** 1.20
- **(B)** 1.05
- **(C)**

1.10

(D)

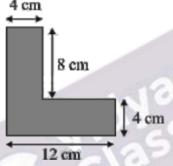
0.30

42. The figure given below shows 8 identical triangles in 2 squares each of side 10 cm. Find the area of all the shaded triangles.



- 200 cm^2 **(A)**
- **(B)**
- 150 cm^2
- 125 cm^2 **(C)**
- 100 cm^2 **(D)**

- 43. The value of $15 \times (17+19) \div 4 - 35 \div 7$ is
 - 100 **(A)**
- **(B)** 120
- **(C)** 125
- **(D)** 130
- 44. Find the area of the shaded part of the rectangular strip of papers.

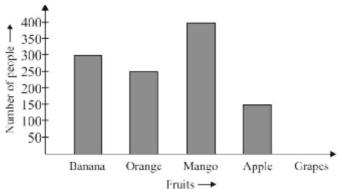


- 8 cm^2 **(A)**
- 32 cm^2 **(B)**
- 72 cm^2 (C)
- (D)
- Javed saved some notes which consist of Rs. 1, Rs. 10 and Rs. 20, notes. If his savings was Rs. 200, and 45. he has 10 - Rs. 1 note and 3 - Rs. 10 notes then how many Rs. 20 notes he had?
 - (A) 8
- **(B)** 10
- (C)
- 9 **(D)**
- Anil transferred eggs from 24 paper trays into plastic trays. Each paper tray could hold 30 eggs while 46. each plastic tray held 20 less. How many plastic trays did he use?
 - **(A)** 36
- **(B)**
- **(C)**
- 108 **(D)**
- 47. 84 and = 15, then what is the value of
 - **(A)** 3
- **(B)** 249
- **(C)** 252
- **(D)** 255
- 48. Mr. Sharma drove from town P to town Q. He took 2 hours 15 minutes for the journey. The clock shows the time he arrived at town O in the evening. When did he set off from town P?



- **(A)** 2:32 a.m.
- **(B)** 2:32 p.m.
- 3:32 a.m. **(C)**
- **(D)** 2:23 p.m.

49. The given bar graph shows the number of people like different types of fruits. Study the graph and answer the question that follows.



If number of people who like grapes is double to the number of people who like apple, then find the total number of people in the survey.

- **(A)** 1450
- **(B)** 1500
- 1400 **(C)**
- 1350 **(D)**

- **50.** Identify the number Z.
 - Add 156 to number Z, it will be 9800.
 - Subtract 156 from number Z, it will be 9488.
 - **(A)** 9544
- **(B)** 9644
- (D) 9744
 - **(D)**



Answer Key | (Pre-Foundation) | Sample Paper

MENTAL APTITUDE

1	2	3	4	5
С	А	С	D	В

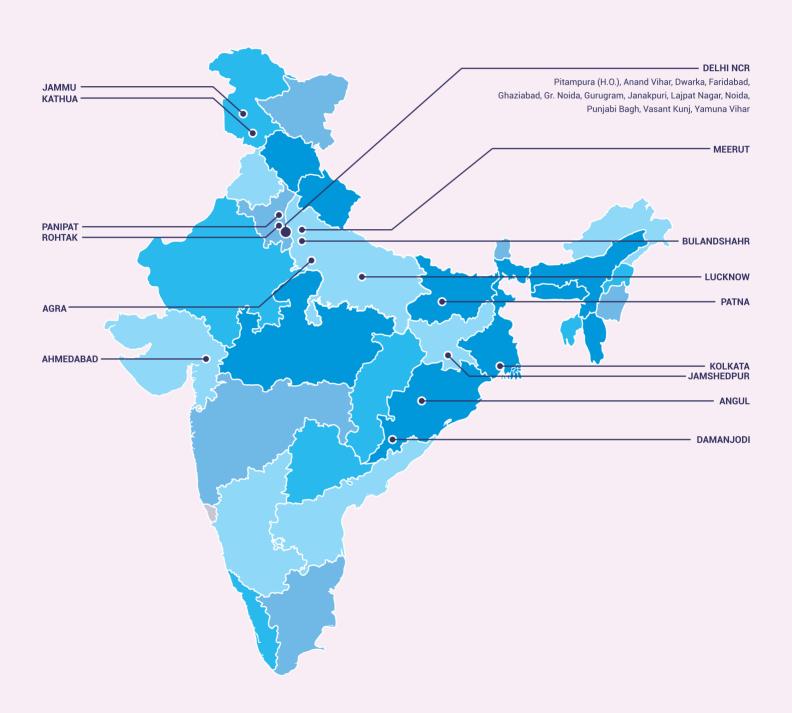
SCIENCE

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

MATHEMATICS

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

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