

I - QUEST'24



SAMPLE QUESTION PAPER



I-Quest '24 is a talent search exam for Foundation and Non-Foundation students of classes V to VIII among the Velammal Nexus Schools. It exposes the students for competitive exam based on 21st century skills. This exam is scheduled in the month of November.

• This sample question paper will give a clarity on topology of the exam.

• Solving the sample question paper will give hands on experience and increase the confidence of the students to face the final exam.

- Students can seek parents help to solve the questions.
- Similar questions will reflect in the final paper.
- Answer key will be displayed in the class.

• Completed question paper to be submitted to the class teacher after school reopening.

• Prepare well for I-Quest '24 exam and grab attractive prizes and cash awards.

GENERAL INSTRUCTIONS FOR THE FINAL EXAM

(I-QUEST '24)

Mode of I-QUEST question paper	Candidates will be given an OMR sheet to mark the answers with a black or blue ballpoint pen
Duration of the exam	1 hour and 30 minutes
Question Type	Multiple choice questions
Total number of questions	The question paper consist of 50 questions and it is divided into three sections A,B & C (Maths, Science & Reasoning) Candidates will have to answer all the questions.
Total marks	50 marks
Marking scheme	1 mark will be awarded for each correct answer 0 mark for each wrong answer or unattempted question

MATHEMATICS

Direction (Q.No: 1 & 2) :

The line graph shows the time taken by 5 boys to run a race.



- 1. What is the average time taken by the boys to complete the race?
 - 1) 62.5 seconds 2) 63.2 seconds
 - 3) 64 seconds 4) 63 seconds
- 2. What is the difference in time taken by Deva and Harish to complete the race?
 - 1) 8 seconds 2) 2 seconds
 - 3) 9 seconds 4) 5 seconds
- 3. Observe the number line given.



Which fraction represented on the number line is in a wrong place ? 1 4) $\frac{3}{4}$

1)
$$\frac{1}{2}$$
 2) $\frac{1}{8}$ 3) $\frac{1}{4}$

- What is the product obtained when a 4. fraction is multiplied by its reciprocal?
 - 1) 0
 - 2) 1
 - 3) Reciprocal fraction
 - 4) The fraction itself
- Observe the wooden blocks 5.



What is the average mass of the given wooden blocks?

1) 63 kg	2) 50.4 kg
3) 252 kg	4) 56.5 kg

Match the following :

6.

Column – I	Column - II
a) 3 × 8	р) 6 × 5
b) 15 × 3	q) 3 × 27
c) 9 × 9	r) 4 × 6
d) 3 × 10	s) 9 × 5



7. Which one of the following Roman symbols is used for 500? 1) L 2) X 3) D 4) C

SPACE FOR ROUGH WORK



- 4 | Page
- it? 2) 130 1) 122 Subtraction - Addition 3) 118 4) 128 Observe the given beakers 13. Addition - Subtraction Multiplication - Division 1 l 250 ml the figure has a line of symmetry? What is the volume of the liquid in beaker R? 2) 3 1) 250 ml 2) 216 ml 3) 271 ml 4) 261 ml 14. P is the least common multiple of 4) 7 45 and 50. What is the value of 10P + 100? 1) 4500 2) 4600 3) 4400 4) 1000 2) Sixty Thousand The figure given shows 5 numbers. 15. 3) Sixty Lakh 4) Sixty Crore factors of 130? 2 1) 2 and 3 1) 16 2) 10 and 13 X 156 3 3) 2 and 13 13 6 4) 3 and 10 4) 39 SPACE FOR ROUGH WORK

12.

- 8. The correct order to apply operations is
 - 1) Addition Multiplication -**Division - Subtraction**
 - 2) Division Multiplication -
 - 3) Division Multiplication -
 - 4) Subtraction Addition -
- 9. What is the smallest number of squares that must be shaded so that

1) 1

- 3) 5
- Find the place value of 6 in the 10. numeral which is 6456565 more than 97885665495.
 - 1) Sixty
- 11. The given figure shows some of the

factors of 156. What is the value of x ?

2) 8 3) 15



Which of the 5 numbers are the prime

A vessel has 5 litres 120 millilitres of

mango shake. How many glasses each

of 40 ml capacity, can be filled with

16.	The total cost of	a bag and T-shirt is	22.	We draw water from a well using a
	₹ 200, Dhiya bu	ys 4 bags and		1) Wheel 2) Rope
	2 T-shirts for ₹ (650. How much does		3) Pulley 4) Axle
	a T-shirt and 2 b	bags cost ?	23.	This force helps the ships float on
	1) ₹325	2) ₹ 350		water ?
	3) ₹305	4) ₹352		1) Buoyant force
17.	The missing nur	nber in the given		2) Muscular force
	expression :			3) Gravitational force
	3984 - (293 + 58	33) × = 1356 is		4) Electro Static force
	1) 1 2) 2	3) 3 4) 4	24.	Earth is able to hold a layer of
18.	The time 1 hour	28 minutes after		atmosphere around it by a force of
	4:15 p.m. is			1) Friction
	1) 3:58 p.m.	2) 5:30 p.m.		2) Electromagnetic waves
	3) 5:43 p.m.	4) 3:30 p.m.		3) Gravity
19.	Murugan bough	t 6 kg Potatoes,		4) All of these
	3 kg 500 grams	Onions and	25.	When work is done is transferred
	500 grams Toma	atoes from the market.		from one object to another.
	How many kg of	vegetables had he		1) Nature 2) Mass
	bought ?			3) Energy 4) Colour
	1) 10 kg	2) 6 kg	26.	Sanchit, Ananya, Ruhi and Rohit are
	3) 3 kg	4) 11 kg		discussing light, shadow and
20.	How many centi	metres are in a		reflection. Choose the incorrect
	hectometer ?			statement ?
	1) 100 3) 10000	2) 1000 4) 100000		1) Sanchi – Light is a form of energy
	SCIE	NCE		which cannot be seen
21	A pair of scissor	suses energy to		2) Ananya – The image formed by a
41,	do work ?			pin-hole camera is inverted
	1) Muscular			3) Ruhi – We see the moon because it
	2) Gravitation	D ALLAND		is a luminous body
	3) Wind	and and		4) Rohit – Plane mirror is used in
	4) Solar			periscope
	1) 00141		1	=

SPACE FOR ROUGH WORK

AC

- 27. In a thunderstorm, light reaches first to the earth's surface than sound because
 - 1) Speed of sound is equal to speed of light
 - 2) Speed of light is more than the speed of sound
 - 3) Speed of sound is more than speed of light
 - 4) All the above
- 28. An observer on the ground will hear a sonic boom from an airplane travelling faster than the speed of sound.



- 1) Only when the plane breaks the sound barrier
- 2) As the plane is approaching
- 3) When the plane is directly overhead
- 4) After the plane has passed by
- 29. It is not possible to see a burning candle by using a bent pipe because



- 1) Light gets reflected
- 2) Light gets absorbed
- 3) Light travels in a straight line
- 4) Light gets bent along the pipe

- 30. Rahul loves music, so his father gifted him a music player on his birthday. He started listening songs through earphones at very high volume. As his elder brother what will you suggest him ?
 - 1) Stop listening music
 - 2) Listening music at higher volume can damage ears
 - 3) Take away his music player
 - 4) Listening music is not good for health
- 31. Read the sentences carefully and find the True/False statements.
 - a. Water helps in seed dispersal of some plants.
 - b. The seed dispersal in palm trees takes place with the help of water.
 - c. Seeds can travel only a short distance while travelling through water.

	а	b	С
1)	Т	F	F
2)	Т	Т	Т
3)	Т	F	Т
4)	Т	Т	F

- 32. Pick the odd one out.
 - (p) Air borne disease :

Meningitis, Anthrax & Measles

(q) Water borne disease :

Dengue fever, West Nile Virus & Lyme

(r) Disease transmitted through direct contact :

Schistosomiasis, Onchocerciasis & Plague

(s) Disease transmitted through animals : Rabies, Blastomycosis,

Avian Influenza & Swine flu

1) p & q 2) q & r 3) p & r 4) r & s

SPACE FOR ROUGH WORK

- 33. Penguins live in the Polar Regions. Which adaptations enable them to survive?i. They have a layer of fat under their skin
 - ii. They have webbed feet
 - iii. They migrate to warmer climates during winter
 - 1) Only i and ii 2) Only ii and iii
 - 3) Only i and iii 4) None
- 34. Animals use different methods to escape from their predators. Which one of the following is NOT true?
 - 1) The lizard sheds a wriggling tail to distract the enemy.
 - 2) The grasshopper has powerful hind legs to hop away quickly.
 - 3) Crocodiles, lizards and turtles use their legs to crawl on the ground.
 - 4) A snake and a worm use their legs to crawl on the ground.
- 35. Which of these is the most accurate description of air, based on the pie chart?



- 1) Two-thirds nitrogen, two-thirds oxygen, and one-tenth other gases
- 2) Three-quarters oxygen and one-third nitrogen and other gases
- 3) One-half nitrogen and one-half oxygen and other gases
- 4) One-fifth oxygen and four-fifths nitrogen and other gases.
- 36. Identify the safety symbol .
 - 1) Toxic
 - 2) Extinguisher
 - 3) Corrosive
 - 4) Flammable



37. Complete the following marine food chain by selecting the suitable option.



- 1) X: Shark, Y: Fish
- 2) X: Fish, Y: Shark
- 3) X: Whale, Y: Shark
- 4) X: Fish, Y: Crab
- 38. Identify the joint present in the image:
 - 1) Hinge joint
 - 2) Pivot joint
 - 3) Ball and socket joint
 - 4) Gliding joint.
- Select the option that groups rocks of two different kinds as shown in the box.

Sandstone : Pumice

- 1) Granite : Obsidian
- 2) Shale : Limestone
- 3) Slate : Marble
- 4) Conglomerate : Obsidian
- 40. Match the items of List I with items of List II

	List I	List - II
А	Vitamin C	P. citrus fruits, tomatoes, guavas
в	Calcium and Vitamin B	Q. peanuts, whole grains lentils
С	Vitamin B ₃	R. nuts and most of the vegetables
D	Vitamin B ₁	S. Fatty fish, the nutrient

	А	В	С	D
1)	Р	S	Q	R
2)	S	Q	Р	R
3)	R	Q	S	Ρ
4)	S	Ρ	R	Q

SPACE FOR ROUGH WORK



	<u>REASONING</u>	46.	If A denotes ' \times ', B denotes ' \div ',
41.	does not belong to the group		C denotes '+' and D denotes '-', then
	given below.		16C24B8D6B2A3 = ?
	1) Parrot 2) Pig		1) $\frac{13}{6}$ 2) 10 3) $14\frac{1}{2}$ 4) $-\frac{1}{6}$
	3) Sparrow 4) Quail	47.	The given equations are solved on the
42.	If in a certain code, LUTE is written as		basis of a certain system. On the
	MUTE and FATE is written as GATE,		same basis, find out the correct
	then how will BLUE be written in that		answer from amongst the options.
	code?		If 12 – 5 = 84, 10 – 5 = 50, 8 – 5 = 24,
	1) GLUE 2) CLUE		then 6 – 5 =
	3) FLUE 4) SLUE		1) 11
43.	If the day before yesterday was		2) 30
	Thursday, then when will Sunday be?		3) 6
	1) Today		4) 1
	2) Yesterday	48.	21 : 3 :: 574 : ?
) Э. Т		1) 23 2) 113 3) 91 4) 82
	3) Tomorrow	49.	Arrange the given words in the order
	4) Day after tomorrow		they occur in dictionary.
44.	Represent the shaded part in the		a. SIGN b. SOLID
	figure given in the options as a		c. SCENE d. SIMPLE
	fraction and choose the correct		1) c, a, b, d 2) c, a, d, b
	option.		3) c, d, a, b 4) c, d, b, a
		50.	In the following question, a series is
[given. One figure of this series is
1)			missing. Choose the missing figure
			from the options.
-	and - All of these		
3)	···· 4) All of these		
45.	18, 17, 19, ? , 20, 15, 21, 14	1	
	1) 16 2) 17 3) 18 4) 10		
	1)10 2)17 3)18 4)19		
	SPACE FOR R	OUGH	WORK

I-Quest Std_V Model Paper



(I-QUEST '24)

MATHEMATICS

1	1	2	3	4	
2	1	2	3	4	
3	1	2	3	4	
4	1	2	3	4	
5	1	2	3	4	
6	1	2	3	4	
7	1	2	3	4	
8	1	2	3	4	
9	1	2	3	4	
10	1	2	3	4	
11	1	2	3	4	
12	1	2	3	4	
13	1	2	3	4	
14	1	2	3	4	
15	1	2	3	4	
16	1	2	3	4	
17	1	2	3	4	
18	1	2	3	4	
19	1	2	3	4	
20	1	2	3	4	

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

REASONING

41	1	2	3	4		
42	1	2	3	4		
43	1	2	3	4		
44	1	2	3	4		
45	1	2	3	4		
46	1	2	3	4		
47	1	2	3	4		
48	1	2	3	4		
49	1	2	3	4		
50	1	2	3	4		
INS	TRUCTI	ONS	FOR	MARK	ING	
OMR SHEET 1. Use only blue or black ball point pen 2. Circle should be darkened completely and properly 3. Cutting and erasing on the sheet are not allowed 4. Sheet should not be folded or crushed. 5. Don't use marker or white fluid to hide the marking.						
Candidate Signature						