

Max Marks : 80

Time : 9:00 to 10:30 a.m.

Instructions to Candidates :

- 01. This question paper has 40 objective questions. In addition to this question paper, you are also given an answer-sheet.
- 02. Read the instructions carefully for each section before attempting it.
- 03. For each correct answer **2 marks** will be awarded and there is no negative marking.
- 04. On the answer-sheet, fill up all the entries carefully in the space provided, **ONLY IN BLOCK CAPITAL LETTERS**.
- 05. Incomplete / incorrect / carelessly filled information may disqualify your candidature.
- 06. On the answer-sheet, use **PENCIL / BLUE** or **BLACK BALL PEN.**
- 07. No extra sheet will be provided for roughwork. Use the space available in the paper for your rough- work.
- 08. Use of calculator is not permitted.
- 09. No student is permitted to leave the examination hall before time is complete.
- 10. Use of unfair means shall invite cancellation of the test.

Roll No.	
Centre No.	
Male / Female	
Name of the candidate : (In like it to be printed on the	English only, as you would certificate).
Signature of the	Signature of
invigilator	the candidate

AMITY INSTITUTE For Competitive Examinations

DELHI CENTRES: • E-25, Defence Colony, New Delhi - 110024. Ph.: 011-24336143/44, 24331000-02. WEST DELHI : • B-1/632, Main Nazafgarh Road, Janakpuri, New Delhi - 110058. Ph.: 011-25573111/12/13/14. EAST DELHI : • Amity International School, Mayur Vihar, Phase-I, Ext., Delhi, Ph.: 011-22710588. GHAZIABAD CENTRE : • Amity International School, Sector-6, Vasundhara Yojna, Ghaziabad-201012. Ph.: 0120-2881002. NOIDA CENTRE • Amity Campus, Sector-44, Noida - 201303. Ph.: 0120-2431839, 2431842. GURGAON CENTRE • Amity International School, Sector-43 & 46, Gurgaon, Haryana, Ph.: 0124-3240105. Each question has four alternatives marked (A), (B), (C) and (D), but only one of these alternatives is the correct answer.

1. A period from January 1, 2008 to December 31, 2020 will contain

	(A) 4750	days	(B)	4749	days
--	----------	------	------------	------	------

- (C) 4748 days (D) 4745 days
- 2. If A = 1, B = 2, O = 15, Z = 26, then SONIA has a numerical value of 19 + 15 + 14 + 9 + 1 = 58. Likewise, the numerical value of AMITY is
 - (A) 68 (B) 58
 - (C) 65 (D) 56
- **3.** In the following closed shape in the plane, numbers show lengths in centimetres. Find the area enclosed by the figure.



4. In the following operation of division, what digits are given by the alphabets *P*, *Q*, *R* and *S*, respectively ?

	Р	Q	R	S	2 Q 2 R
(A)	7	5	4	7	23)5P059 ** 120
(B)	8	4	5	7	* 1 *
(C)	8	5	4	8	5 5 <u>4 6</u>
(D)	8	5	4	7	* 9 <u>* *</u> S
					5

Rough Work

5.	The number 949 can l	be expressed in roman numerals as	Rough Work
	(A) CMIL	(B) DCCCCIL	
	(C) CMXLIX	(D) CMXXXXIX	
6.	If $\frac{3}{5}$ of a number is 13	5, then one-third of this number is	
	(A) 80	(B) 75	
	(C) 70	(D) 65	
7.	A clock takes exactly the strikings are unifo the same clock will tak	y 1 second to strike 3 O'clock and ormly spaced. To strike 12 O'clock, ke	
	(A) 4.5 seconds	(B) 5.5 seconds	
	(C) 4 seconds	(D) 5 seconds	
8.	In the following patter	rn, some part is missing.	
		?	
	The missing part of th	e pattern is	
	(A)	(B)	
	(C)	(D)	

- **9.** Payal had a thin wire of length 48 cm. She cut it into wires of equal lengths. With these smaller wires she made a skeleton of a cube and covered it with paper to form a hollow cube. Find the minimum area of the paper to form this cube.
 - (A) 192 sq cm
 - (B) 144 sq cm
 - (C) 128 sq cm
 - (D) 96 sq cm
- **10.**A 4-digit number is divisible by 60. This number may not be divisible by
 - (A) 12 (B) 20
 - (C) 24 (D) 30
- 11. Which one of the following is a correct statement ?
 - (A) $\frac{13}{18} < \frac{5}{8} < \frac{7}{9}$ (B) $\frac{5}{8} < \frac{7}{9} < \frac{13}{18}$ (C) $\frac{7}{9} < \frac{5}{8} < \frac{13}{18}$ (D) $\frac{5}{8} < \frac{13}{18} < \frac{7}{9}$
- **12.** In the following series, all the alphabets except one follow some pattern.
 - A, F, I, M, Q, U

Find that alphabet which does not follow the same pattern.

- (A) U (B) M
- (C) I (D) F





17. In the following grid, numbers in each row and in each column are written in particular patterns. Four numbers in the grid are missing and are represented by P, Q, R and S.

3	10	17	24
9	16	Р	30
15	Q	29	R
21	S	35	42

Understand the patterns and find the values of P, Q, R and S, respectively.

(A) 22	23	36	30	(B)	23	22	36	28
(C) 22	23	36	28	(D)	23	22	28	36

18. A circle is drawn on a graph paper, made of squares of side 1 cm each. Find the approximate area of the circle.

- (A) 29 sq cm
- (B) 28 sq cm
- (C) 27 sq cm
- (D) 26 sq cm

19. How many prime numbers lie between 10 and 50 ?

- (A) 9 (B) 10
- (C) 11 (D) 12
- **20.** $1 + \frac{1}{2} \frac{2}{3} + \frac{3}{4} \frac{4}{5}$ is equal to

(•)	57	(D	52
(A)	60	(В	⁽⁾ 60

(C) $\frac{47}{60}$ (D) $\frac{37}{60}$

- **21.** *ABCD* is a square of each side 4 cm. *E* is the mid-point of *AD* and *F* is the mid-point of *DC*. Find the area of the triangle *AEF*.
 - (A) 1 sq cm
 - (B) 2 sq cm
 - (C) 4 sq cm

(D) none of these



- **22.** A businessman dies and leaves a total of wealth of Rs. 81,64,800. He had two unmarried sons Ajay and Ajit and a married daughter Aparna. He left a will for the distribution of his wealth. The wealth is to be distributed among Aparna, Ajay and Ajit in the ratio 2 : 4 : 3. What wealth should Aparna get ?
 - (A) Rs. 18,14,400 (B) Rs. 19,14,400
 - (C) Rs. 22,32,800 (D) Rs. 23,32,800
- **23.** Which of the following sets of three numbers gives the maximum value on addition ?
 - (A) 213, 364, 435 (B) 231, 346, 453
 - (C) 312, 364, 345 (D) 123, 463, 453

24. The area of a square field is 400 m \times 300 m. The mango trees are to be planted in a regular manner. If each mango tree requires an area of 6.25 m \times 6.25 m, then how many mango trees can be planted in this field ?

**	
\$ \$ \$ \$ \$	
\$\$ \$\$ \$\$ \$\$	
(A) 2880	(B) 2944
(C) 3008	(D) 3072
5. Tick-mark ($$) th	e incorrect statement.
(A) All the three	angles in a equilateral triangle are equal
(B) A triangle ca	n have only one obtuse angle
(C) A right-angle	d triangle cannot have an obtuse angle
(D) All the three	angles of a triangle must be acute
26. If $A = 1$, $B = 2$, equation $O^2 + H^2$ one of the followi	$T = 20$, $Z = 26$, then in the $= (?)^2$. The symbol ? represents which ng alphabets ?
(A) P	(B) S
(C) Q	(D) W



- (A) 2435 sq cm
- (B) 2535 sq cm
- (C) 2635 sq cm
- (D) 3525 sq cm
- **28.** When folded along the lines, the following spread will form a hollow cube. The face P of the hollow cube will be opposite to which of the following faces ?

Κ

L

Μ

Ν

Ο

Р

- (A) K
- (B) L
- (C) M
- (D) N
- **29.** A regular hexagon *KLMNOP* is placed over an equilateral triangle *ABC*, as shown below. What fraction of the area of the triangle does the hexagon cover ?
 - (A) 5/8(B) 5/9(C) 3/4(D) 2/3 P A K LB
- **30.** In the following problem, the values of P, Q, R and S are respectively
 - (A) 7 3 8 77 P 9 5(B) 8 3 8 7-920Q(C) 8 3 7 8+86R4(D) 8 3 7 7



31. What fraction of the total area is shaded black ?

- (A) 30 %
- (B) 28 %
- (C) 25 %
- (D) 24 %



32. A dealer, dealing in second-hand goods, purchased a colour TV set for Rs. 2450/- from a house and spent Rs. 50 as freight charges to bring the TV set to his workshop. He spent Rs. 650 for replacing old parts and improving the look of TV. At what price should be sell the TV set to earn a profit of 40 % ?

(A) Rs. 3430	(B)	Rs. 3500
--------------	-----	----------

- (C) Rs. 4340 (D) Rs. 4410
- **33.** In the following series, all the numbers except one follow some pattern.

189, 171, 155, 144, 135, 129, 126

Find that number which does not follow the same pattern.

(A)	126	(B)	135
(C)	144	(D)	155

34. Deepa has some number of ten-rupee notes and half the number of five-rupee notes. If total money with Deepa is Rs. 1375, then find the number of her ten-rupee notes.



Amity Institute For Competitive Examinations: Ph.: 24336143/44, 25573111/2/3/4, 95120-2431839/42

- **35.** Four regular octagons (eight-sided closed figures) enclose a square as shown. If the area of the square is 36 sq. cm, then find the perimeter of this closed figure.
 - (A) 120 cm
 - (B) 144 cm
 - (C) 150 cm
 - (D) 168 cm
- **36.** A manufacturer of handkerchiefs purchases long rolls of cloth; each roll being 31.85 m long and 1.4 m wide. How many square handkerchiefs of maximum size can be made from each roll of cloth ?
 - (A) 384 (B) 364
 - (C) 324 (D) 256
- **37.** The same digit has to be put in the empty boxes of a 5-digit number shown below, such that the number becomes divisible by 3 and 9.

7	6			4
---	---	--	--	---

Which one of the following digits should be used ?

(A) 8 (B) 6

- (C) 5 (D) 2
- **38.** A fruit-seller purchases 100 dozens of bananas at the rate of Rs. 15 per dozen. By evening he sold 80 dozens of bananas at the rate of Rs. 20 per dozen. During late evening, at what rate should he sell the remaining bananas to earn a net profit of 20% ?
 - (A) Rs. 8 per dozen (B) Rs. 10 per dozen
 - (C) Rs. 12per dozen (D) Rs. 15 per dozen

Rough Work

39.
$$\left[1\frac{8}{25} \times 7\frac{1}{7} \times 3\frac{1}{11} \times 1\frac{8}{17} \times \frac{7}{75}\right] - \left[\frac{3}{20} \times 1\frac{2}{3} \times 3\frac{1}{5} \times 2\frac{1}{2}\right]$$

simplifies to

(A) 4	(B) 2
-------	-------

- (C) 1 (D) 0
- **40.** Special square tiles, each of side 25 cm, are laid on the floor in the drawing room of a building, as shown. Find the area of the floor of this drawing room.



Answers Class V Maths

1	В		2 A		3	С	4	D	5	С
6	В	,	7 В	3	8	С	9	D	10	С
11	D	12	2 D)	13	В	14	D	15	В
16	А	1′	7 B	5	18	В	19	С	20	С
21	В	22	2 A		23	D	24	D	25	D
26	С	2	7 В	5	28	С	29	D	30	D
31	В	32	2 D)	33	D	34	С	35	А
36	В	3'	7 C	1	38	В	39	В	40	А

Amity Institute For Competitive Examinations: Ph.: 24336143/44, 25573111/2/3/4, 95120-2431839/42