

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	n English only, as you would
like it to be printed on the	e certificate).
Signature of the	Signature of
invigilator	the candidate

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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.
$$\frac{1 \frac{8}{11} \times 2 \frac{2}{19} \times 1 \frac{3}{8}}{1 \frac{8}{17} \times 1 \frac{8}{9} \times 3 \frac{3}{5}} \text{ of } \left[3 \frac{8}{9} \times 1 \frac{2}{7} \times 3 \frac{1}{5} \right] \text{ equals}$$

(A) 8 (B) 4
(C) 2 (D) 1

- 2. Surface area of a cube is 2646 cm². The cube is shown as below. The minimum length of a thin ribbon to be pasted along its edges is
 - (A) 441.0 cm
 - (B) 330.75 cm
 - (C) 252.0 cm
 - (D) 220.5 cm



- 3. Four very thin circular sheets are so closely placed that their centres form a square *ABCD*. If radius of each circular sheet is π m, then the ratio of areas of whole square *ABCD* and the shaded part inside this square is
 - (A) 2: $(\pi 2)$
 - (B) $2:(4-\pi)$
 - (C) 4: $(\pi 2)$

(D) 4: $(4 - \pi)$



4. At 8 % rate of interest, if the compound interest is more than simple interest by Rs. 160 for 2 years, then the amount deposited would be

(A)	Rs. 30,000	(B)	Rs. 25,000

(C) Rs. 24,000 (D) Rs. 20,000

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Rough Work

In the following *three* questions, numbers in the cells of each square follow some rule. Find the number, which when replaced by the symbol ..?.., maintains the same rule.

6	10	0	
0	10	0	
7	9	8	
?	6	8	
2	8	12	
	0	12	
3	9	18	
4	10	?	
55	32	46	
32	14	36	
10	26		
46	- 36	?	
	6 7 ? 2 3 4 55 32 46	6 10 7 9 ? 6 2 8 3 9 4 10 55 32 32 14 46 36	6108798?6828123918410?5532463214364636?

- 8. The paint in a certain container is sufficient to paint area equal to 15 m². How many bricks of dimensions 22.5 cm \times 10 cm \times 7.5 cm can be painted with this paint, assuming no wastage ?
 - (A) 150 bricks (B) 160 bricks
 - (C) 180 bricks (D) 200 bricks
- 9. If a = 4, b = 3 and $(a + b + c)^2 = 25$, then the value of (a + b c) is equal to
 - (A) 11 (B) 9
 - (C) 7 (D) 5



(A)	$7\frac{17}{35}$	(B)	$7\frac{27}{35}$
(C)	$7\frac{19}{35}$	(D)	$7\frac{29}{35}$

11. What smallest number should be subtracted from 974489 so that the result is a perfect square of a whole number ?

- (A) 300 (B) 320
- (C) 340 (D) 360
- 12. A motor-boat covers a certain distance down stream in a river in five hours, and the same distance upstream in five and a half hours. If speed of water in the river is 1.5 km/hr, then the distance travelled by the motor boat in each direction is
 - (A) 150 km (B) 160 km
 - (C) 165 km (D) 175 km
- **13.** In the given figure, *AB* is the diameter of a circle with *O* as its centre. If $\angle COB = 130^\circ$, then $\angle ADC$ is

130°

B

- (A) 25°
- (B) 30°
- (C) 35°
- (D) 50°
- **14.** On simplification, $\sqrt[3]{8\sqrt{8(\sqrt{8\sqrt[3]{8}} + \sqrt{8\sqrt[3]{8}})}}$ can be written as
 - (A) $2^{5/3}$ (B) $2^{4/3}$
 - (C) $2^{5/2}$ (D) $2^{4/2}$

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(A)	4, 7	(B)	4, 3
· ·	,		,

(C) 4, 5 (D) 4, 4

16. In the given semicircle, *AOB* is the diameter and *O* is the centre of the circle of which this semicircle is a part. $\angle AOC = 40^{\circ}, \ \angle DOB = 80^{\circ} \text{ and } AD, BD \text{ and } CB \text{ are joined.}$



The magnitudes of $\angle AEO$ and $\angle OGB$ are, respectively,

(A)	80° and 100°	(B)	100° and 80°
-----	--------------	-----	--------------

(C) 100° and 60° (D) 80° and 80°

17. In the above problem, the magnitudes of $\angle ODB$ and $\angle OCB$ are, respectively,

(A) 40° and 20° (B) 50° and 30°

- (C) 40° and 30° (D) 50° and 20°
- **18.** By giving a discount of 10 % on the marked price, a shopkeeper makes a profit of 12.5 %. If he gives a discount of 8 % on the marked price, his profit would become
 - (A) 18 % (B) 17.5 %

(C) 15 % (D) 14.5 %





[7]



32. If a + b = c and a = b then the value of $\frac{a}{a-c} - \frac{c}{b-c}$ is equal to

(A)
$$\frac{c}{c-a}$$
 (B) $\frac{c}{a-c}$
(C) 0 (D) 1

33. Due to lack of medical facilities and proper diet, the death rate of persons on account of a dreaded disease in a town was more than birth rate. On the average, the population decreased by 10 %, 8 % and 4 % in successive 3 years, respectively. If population recorded after these 3 years was 675648, then the population before the spread of the dreaded disease was

(A) 900,000 (B) 850,000

(C) 800,000 (D) 750,000

Three views of a cube are given below. Study each view of the cube and answer the following *two* questions.



34. In figure 1, the symbol opposite to 6 is

(A) 2 (B) 4

(C) 5 (D) difficult to find

35. In figure 2, the symbol opposite to 1 is

(A) 3 (B) 5

(C) 6 (D) difficult to find

36. Find the unknown numbers x and y such that the sum of the numbers along each row, along each column and along each diagonal of the grid is 81

28

х

(A) x = 26, y = 25



38. Which one of the following digits should be in all the three empty boxes of a five-digit number, shown below, such that the number becomes individual by 9 as well as 11 ?



sum of

Rough Work

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Answers : Class VIII Maths

1	А	2	c C	3	D	4	В	5	В
6	С	7	C C	8	В	9	В	10	А
11	В	12	c C	13	А	14	D	15	В
16	В	17	D	18	C	19	А	20	С
21	С	22	B B	23	В	24	С	25	В
26	В	27	C C	28	D	29	В	30	А
31	В	32	D D	33	В	34	А	35	В
36	С	37	' B	38	В	39	D	40	С

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