GLOBAL OPEN TALENT FOUNDATION

MATHEMATICS

Class : V

Max Marks : 35

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 **1 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.**

Roll No.

Centre No.

Male / Female

Name of the candidate : (In English only, as you would like it to be printed on the certificate).

Each question has four alternatives marked (A), (B), (C) and (D), but only one of these alternatives is the correct answer. Find the correct answer.

Some numbers are written in the following crossword. Find all the numbers and answer the following *four* questions.

S	F	I	F	T	Y	F	T	E
I	I	O	N	E	A	I	W	S
X	V	N	I	N	E	F	O	E
N	E	I	G	H	T	T	W	V
F	O	U	R	T	E	E	N	E
O	T	H	I	R	T	E	E	N
U	E	L	E	V	E	N	E	W
R	H	U	N	D	R	E	D	Z

1. What is the product of five smallest even numbers given in the crossword ?

(A) 6,720 (B) 3,840

(C) 5,760 (D) 10,240

2. What is the sum of all the even numbers given in the crossword ?

(A) 194 (B) 184

(C) 196 (D) 186

3. What is the product of first 5 smallest odd number ?

(A) 3,465 (B) 3,645

(C) 4,095 (D) 45,045

4. What is the difference between the product of 2 largest even numbers and the product of 5 smallest odd numbers given the crossword ?

(A) 1,665 (B) 1,355

(C) 1,575 (D) 1,535

Rough Work

Rough Work

5. In Delhi, on May 04, 2020, the sunrise was at 5 : 37 AM and the sunset was at 6 : 58 PM. On the same day, in London the sunrise was at 5 : 26 AM and sun set was at 8 : 29 PM. So, on May 04, 2020, the duration of the day in Delhi was shorter than that at London by

(A) One hour and 52 minutes

(B) One hour and 42 minutes

(C) One hour and 32 minutes

(D) Two hours and 02 minutes

6. Complete the following long division and find the magnitude of the dividend.

(A) 88,286 (B) 88,276

(C) 88,296 (D) 88,396

7. In the above problem, the quotient and the remainder are, respectively,

(A) 1289 and 35 (B) 1279 and 25

(C) 1289 and 25 (D) 1279 and 35

8. In a collection of lights, red, green, orange, yellow and blue lights blink after every 10s, 12s, 16s, 18s and 15s, respectively. How many times will these lights blink together in 6 hours ?

(A) 30 times (B) 36 times

(C) 45 times (D) 60 times

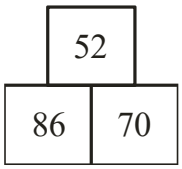
9. In the above problem, in one hour, green light would blink how many times more than blue light ?

(A) 40 times more (B) 50 times more

(C) 60 times more (D) 80 times more

In the following *six* questions, find the alternative which is different from the other three ?

10. (A)



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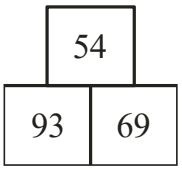
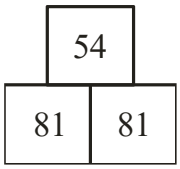


(C)



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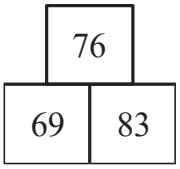
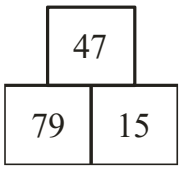
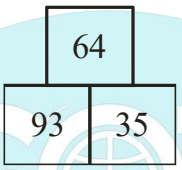


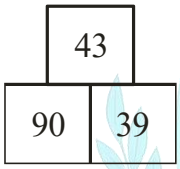
11. (A)



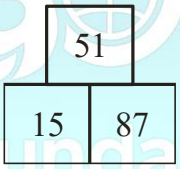
(B)



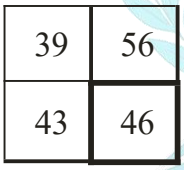
(C)



(D)



12. (A)



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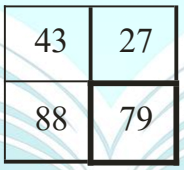
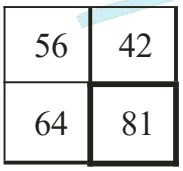


(C)



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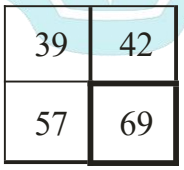
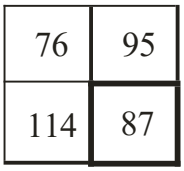
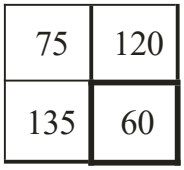


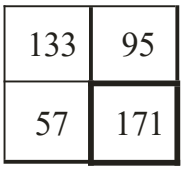
13. (A)



(B)



(C)



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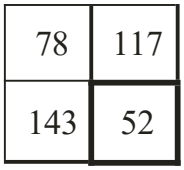
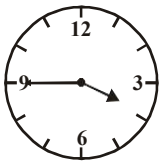
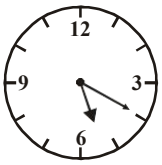
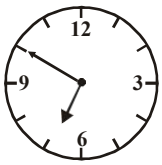


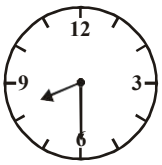
Rough Work

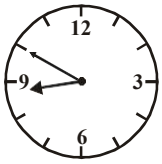
Rough Work

14. (A) 

(B) 

(C) 

(D) 

15. (A) 

(B) 

(C) 

(D) 

16. In which one of the following cases simple interest is more ?

(A) On principal of Rs 8500 for 3 years at the rate of 6% per annum

(B) On principal of Rs 8000 for 3 years at the rate of 7% per annum

(C) On principal of Rs 9000 for 3 years at the rate of 6% per annum

(D) On principla of Rs 10,000 for $2^1/_2$ years at the rate of 6% per annum

Rough Work

Arrange the following numbers in proper order and answer the following *four* questions, based on this group of numbers.

13 39 25 48

27 56 32 19

45 16 37 49

17. Find the difference between the product of numbers ending in 6 and the sum of numbers ending in 9.

(A) 789 (B) 769

(C) 889 (D) 869

18. What should be added to the product of numbers of multiple of 13 such the result becomes 550 ?

(A) 53 (B) 57

(C) 43 (D) 47

19. What is the sum of numbers lying between 30 and 50 ?

(A) 260 (B) 250

(C) 240 (D) 230

20. What is the difference between (i) the sum of 3 largest numbers and (ii) the sum of 4 smallest numbers of this group of numbers ?

(A) 70 (B) 75

(C) 80 (D) 85

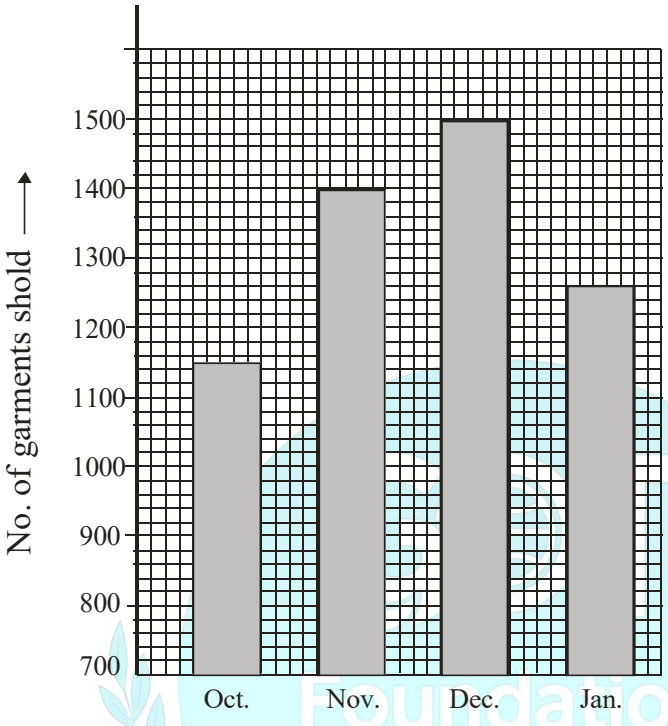
21. With which one of the following numbers, should 13 be multiplied such that each digit in the product is 7 ?

(A) 59,289 (B) 58,299

(C) 59,829 (D) 58,929

Rough Work

The sale of woollen garments by Zebra Garments Store, during the winter season, is shown by bar graphs as under. Based on the information, answer the following *three* questions.



22. If the average profit from sale of each garment is Rs 250, find the total profit earned by the Store from the sale of woollen garments.

(A) Rs 12,50,000 (B) Rs 12,75,000

(C) Rs 13,75,000 (D) Rs 13,25,000

23. If the average sale price of each woollen garment is Rs 1150, then the average sale proceeds for first three months by the Store is

(A) Rs 15,61,500 per month

(B) Rs 15,52,500 per month

(C) Rs 15,66,000 per month

(D) Rs 15,57,00 per month

24. If the Store had to pay the cost price of sold woollen garments to the manufacturer at the end of each month, then average amount paid by the store to the manufacturer each month was

(A) Rs 11,92,500 (B) Rs 12,82,500

(C) Rs 11,74,500 (D) Rs 11,83,500

Rough Work

25. Madhur obtained the following marks in his first test :

(i) 135 marks out of 150 in Mathematics

(ii) 120 marks out of 125 in Science

(iii) 72 marks out of 75 in S. Studies

His average percentage of marks was

(A) 96% (B) 95%

(C) 94% (D) 93.5%

26. A group of 8 friends have an average height of 155 cm. When two more friends join this group, their average height becomes 155.2. What is the average height of two new friends ?

(A) 156.0 cm (B) 156.2 cm

(C) 155.5 cm (D) 155.8 cm

27. Compare the statements of Column-I (relations of angles of triangles) and Column-II (types of triangles) and find the correct matching, given as one of the four alternatives A, B, C and D

Column-I	*Column-II*
(a) 2 angles are equal	(i) acute angled
(b) 2 angles less than 45° each	(ii) right isosceles
(c) 2 angles are equal, each being 45°	(iii) right angled
(d) 2 angles greater than 45° but less than 90°	(iv) isosceles
(e) 2 angles add to 90°	(v) scalene
(f) No any two angles are equal	(vi) obtuse angled

(A) (a)-(iv), (b)-(i), (c)-(iii), (d)-(vi), (e)-(ii), (f)-(v)

(B) (a)-(iv), (b)-(vi), (c)-(ii), (d)-(v), (e)-(iii), (f)-(i)

(C) (a)-(iv), (b)-(vi), (c)-(ii), (d)-(i), (e)-(iii), (f)-(v)

(D) (a)-(ii), (b)-(vi), (c)-(iv), (d)-(i), (e)-(iii), (f)-(v)

Rough Work

28. Which one of the following relations is *not* correct ?

(A) $\frac{3}{16}$ is also same as 18.75%

(B) $\frac{5}{32}$ is also same as 15.625%

(C) $\frac{7}{20}$ is also same as 35.0%

(D) $\frac{13}{40}$ is also same as 32.25%

29. The average highest temperature during the month of April in the year 2020 was 30°C. This temperature is Fahrenheight scale would be

(A) 76° F (B) 86° F

(C) 84° F (D) 88° F

30. A wall of height 2.5 m, thickness 25 cm and length 1600 m is to be constructed with bricks of dimensions 7.5 cm × 12.5 cm × 25 cm. How many bricks will be needed if 5% extra bricks will be necessary to cover breakage and wastage ?

(A) 4,48,000 (B) 4,48,800

(C) 4,50,800 (D) 4,50,600

31. Mohan purchased a motorbike for Rs 35,500. Soon, he met with an accident and the motorbike got damaged. He sold this motorbike to a mechanic for Rs 17,500. The mechanic repaired the motorbike and spent Rs 5000 for some parts and denting and painting the motorbike. He sold this motorbike for Rs 27,750. What was the profit of the mechanic ?

(A) 30% (B) 23.33%

(C) 33.33% (D) 30.33%

32. Which one of the following statements is *not* correct about Roman Numbers/Numerals ?

(A) V, L and D cannot be used for subtraction

(B) I can be subtracted only from V and X

(C) X can be subtracted only from L and C

(D) Only I, X, C and M are repeated for more than one times but not for more than 3 times

33. Which one of the following relations is *not* correct between Indian Numbers and Roman Numbers ?

(A) 2387 : MMCCCLXXXVII

(B) 1889 : MDCCCLXXIX

(C) 1999 : MCMXCIX

(D) 2846 : MMDCCCXLVI

34. Find the sum of the following three numbers

(i) Four million five hundred seventy six thousand four hundred and nine

(ii) Three million five hundred six thousand and ninety nine

(iii) Nine hundred seventy five thousand and eighty seven

(A) Nine million one hundred fifty seven thousand five hundred and ninety five

(B) Nine million fifty seven thousand six hundred and ninety five

(C) Nine million fifty seven thousand five hundred and eighty five

(D) Nine million fifty seven thousand five hundred and ninety five

35. In the above problem what will be the result if sum of number (ii) and (iii) is substracted from number (i) ?

(A) Ninety four thousand two hundred and thirty three

(B) Ninety five thousand two hundred and thirty three

(C) Ninety five thousand three hundred and thirty three

(D) Ninety five thousand two hundred and twenty three

Rough Work

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