

Meet - cgk-bboh-zta x (71) কিছু চাই না আমি | Kicoh x 25, 216, 49, 7, 81, 1000 - Go x End Semester Examination, 1 x Error 410 (Bad Request)!!1 x What message we can get f: x +

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End Semester Examination, February 2021
HSMC102 - Essential Studies for Professionals - 1

End Sem
9.00AM
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GROUP A(Objective)
Marks-30×1=30

Read the following questions carefully & write down the correct answer.

- $26 \times 451 - ? = 6103$
- $4800 \div \sqrt{?} + 3 = 963$
- $(625)^{1/2} + (484)^{1/2} = ?$
- $625 \div 5 + 25 = ?$
- $5^{8.9} \times 25^{7.2} \div 125^{4.6} = 5^?$
- $333.33 + 33.33 + 3.33 + 30.003 = ?$
- $5 \times ? = 8042 \div 4$
- $(23460 \div 6.8) + (1265 \div 2.3) = ?$
- $64\% \text{ of } 3475 = 35\% \text{ of } 1260 + ?$
- $1235 + 26542 - 8005 = ?$
- $12\% \text{ of } 1350 + 24\% \text{ of } 2950 + 10\% \text{ of } ? = 975$
- $0.5\% \text{ of } 1200 \times 1\% \text{ of } 1400 = ?$

13. A man starts from a point walks 4 miles towards north and turns left and walk 6miles turns right and walks for 3 miles again turns right and walks 4 miles and takes rest for 30mins. He gets up and walks 4miles in the same direction and turns right and walks one miles. What is the direction is he facing?

14. A man starts from his office and goes 5km East the he turns left and again walks for 3km again he turns left and walks 5km. At what distance is he now from the starting point?

15. Father is aged three times more than his son Ronit. After 8 years, he would be two and a half times of Ronit's age. After further 8 years, how many times would he be of Ronit's age?

16. In a College there are 1800 students. Last day except 4% of the boys all the students were present in the college. Today except 5% of the girls all the students are present in the college, but in both the days number of students present in the college, were same. The number of girls in the collegeis?

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B.

i. In a certain code "BROWN" is written as "ZPMUL" then "VIOLET" will be written as. Write down the correct option with proper explanation. (3)

ii. I am Standing at the centre of a circular field. I go down south to the edge of the field and then turning left I walk along the boundary of the field equal to three-eights of its length. Then I turn left by 45° and go right across to the opposite point to the boundary. In which direction am I from the starting point? (2)

iii. I am facing east. I turn 100° in the clockwise direction and then 145° in the anti clockwise direction. Which direction am I facing now? (2)

10.A.

i. A rat runs 20° towards East and turns to right, runs 10° and turns to right, runs 9° and again turns to left, runs 5° and then turns to left, runs 12° and finally turns to left and runs 6° . Now, which direction is the rat facing? (3)

ii. E is the son of A. D is the son of B. E is married to C. C is B's daughter. How is D related to E? (2)

iii. A is father of C and D is son of B. E is brother of A. If C is sister of D, how is B related to E? (2)

OR

B.

i. Q's mother is sister of P and daughter of M. S is daughter of P and sister of T. How is M related to T? (2)

ii. D, the son-in-law of B, is the brother-in-law of A who is the brother of C. How is A related to B? (3)

iii. What message we can get from given code? Explain with logic. (2)
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ii. Some equations have been solved on the basis of certain system. Find the correct answer for the unsolved equation on that basis. (2)
If $94 + 16 = 42$, $89 + 23 = 78$, Then $63 + 45 = ?$

iii. In an examination, a student's average marks were 63 per paper. If he had obtained 20 more marks for his English paper and 2 more marks for his Hindi paper, his average per paper would have been 65. How many papers were there in the examination? (2)

9.A.

i. If 'DELHI' is coded as '73541' and 'CALCUTTA' is coded as '82589662' then how 'CALICUT' will be written in that code language? Write down the correct option with proper explanation. (3)

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ii. In a certain code "CERTAIN" is written as "QDBVOJB". How is "RELATED" written in that Code. Write down the correct option with proper explanation. (2)

iii. In a certain code "MADRAS" is written as "NZEQBR" then "CALCUTTA" will be written as. Write down the correct option with proper explanation. (2)

OR

B.

i In a certain code "BROWN" is written as "ZPMUL" then "VIOLET" will be written as. Write down the correct option with proper explanation. (3)

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ii. 96782345, 6782345, 678234, 78234, ? (2)

iii. P N P P O N P P P N N P P N O O P N
How many times letter 'P' is present in given responses which preceding by a consonant and follow by a vowel? (2)

OR

B.

i. A is father of C and D is son of B. E is brother of A. If C is sister of D, how is B related to E? (3)

ii. 'Q's mother is sister of P and daughter of M. S is daughter of P and sister of T. How is M related to T? (2)

iii. D, the son-in-law of B, is the brother-in-law of A who is the brother of C. How is A related to B? (2)

8. A.

Direction (i to iii): In each of these questions, a number series is given. In each series, only one number is wrong. Find out the wrong number & Explain the logic.

i. 11, 13, 18, 25, 30, 37, 40 (3)

ii. 15, 46, 63, 71, 75, 77, 78 (2)

iii. 2, 3, 12, 37, 86, 166, 288 (2)

OR

B.

i. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis. (3)
If $324 \times 289 = 35$, $441 \times 484 = 43$,
 $625 \times 400 = 45$, find that value of 256×729 .

ii. Some equations have been solved on the basis of certain system. Find the correct answer for the unsolved equation on that basis. (2)
If $94 + 16 = 42$, $89 + 23 = 78$, Then $63 + 45 = ?$

iii. In an examination, a student's average marks were 65 per paper. If he had obtained 20 more marks for his English paper and 2 more marks for his Hindi paper, his average per paper would

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proportion of gold and copper in C will be : (2)

5.A.

i. The students in three classes are in the ratio 2:3:5. If 20 students are increased in each class, the ratio changes to 4:5:7. The total number of students before the increase, were : (2)

ii. A right cylinder and a right circular cone have the same radius and the same volume. The ratio of the height of the cylinder to that of the cone is ? (3)

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iii. A circle and square have same area. Therefore, the ratio of the side of the square and the radius of the circle is ? (2)

OR

B.

i. A, B and C do a work in 20, 25 and 30 days respectively. They undertook to finish the work together for Rs.2220, then the share of A exceeds that of B by ? (3)

ii. A trader buys oranges at 7 for a rupee and sells them at 40% profit. How many oranges does he sell for a rupee? (2)

iii. On selling mangoes at 36 for a rupee, a shopkeeper loses 10%. How many mangoes should he sell for a rupee in order to gain 8%? (2)

6.A.

i. In a certain code, GENABON is written as LMSREFOAIT. How is ESTABLISHED written in that code? (3)

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ii. In a certain code language, COMPUTER is written as RFUVQNPC. How is MEDICINE written in that code? (2)

iii. If in a certain language, COVALENT is written as BWPDUOFM and FORM is written as PGNS. How is SILVER be written in that language? (2)

OR

B.

i. Rohan walks a distance of 3 km towards North, then turns to his left and walks for 2 km. he again turns left and walks for 3 km. At this point he turns to his left and walks for 3 km. how many kilometers is he from the starting point? (3)

ii. A person starts from a point A and travels 3 km eastwards to B and then turns left and travels thrice that distance to reach C. He again turns left and travels five times the distance he covered between A and B and reaches his destination D. The shortest distance between the starting point and the destination is ? (2)

iii. A girl leaves from her home. She first walks 30 meters in North-west direction and then 30 meters in South-west direction. Next, she walks 30 meters in South-east direction. Finally, she turns towards her house. In which direction is she moving? (2)

7.A.
Direction(i to iii): Find out the missing term (?) in the given series & Explain answer with logic.
i. 170, 149, 130, 113, ? (3)

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17. If the number $91876 * 2$ is completely divisible by 8, then the smallest whole number in place of * will be:

18. The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?

19. Present ages of Sameer and Anand are in the ratio of 5 : 4 respectively. Three years hence, the ratio of their ages will become 11 : 9 respectively. What is Anand's present age in years?

20. $287 \times 287 + 269 \times 269 - 2 \times 287 \times 269 = ?$

21. The sum of two number is 25 and their difference is 13. Find their product.

22. A man is 24 years older than his son. In two years, his age will be twice the age of his son. The present age of his son is:

23. Six years ago, the ratio of the ages of Kunal and Sagar was 6 : 5. Four years hence, the ratio of their ages will be 11 : 10. What is Sagar's age at present?

24. The difference of the squares of two consecutive even integers is divisible by which of the following integers ?

25. The sum of the present ages of a father and his son is 60 years. Six years ago, father's age was five times the age of the son. After 6 years, son's age will be?

26. At present, the ratio between the ages of Arun and Deepak is 4 : 3. After 6 years, Arun's age will be 26 years. What is the age of Deepak at present ?

Directions(27-30): What should come in place of question mark (?) in the following number series?

27. 25, 216, 49, ?, 81, 1000

28. NOM, OPN, PQO, ?

29. MSD, O7G, Q10J, ?, U19P

30. 100, 50, 52, 26, 28, ? 16, 8

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2.A.

i. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had? (3)

ii. If $A = x\%$ of y and $B = y\%$ of x , then which of the following is true? (2)

iii. If 20% of $a = b$, then $b\%$ of 20 is the same as: (2)

OR

B.

i. Gauri went to the stationers and bought things worth Rs. 25, out of which 30 paise went on sales tax on taxable purchases. If the tax rate was 6%, then what was the cost of the tax free items? (3)

ii. Rajeev buys good worth Rs. 6650. He gets a rebate of 6% on it. After getting the rebate, he pays sales tax @ 10%. Find the amount he will have to pay for the goods. (2)

iii. The population of a town increased from 1,75,000 to 2,62,500 in a decade. The average percent increase of population per year is: (2)

3.A.

i. The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is: (2)

ii. The captain of a cricket team of 11 members is 26 years old and the wicket keeper is 3 years older. If the ages of these two are excluded, the average age of the remaining players is one year less than the average age of the whole team. What is the average age of the team? (3)

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