

KENDRIYA VIDYALAYA GACHI BOWLI, GPRA CAMPUS, HYD- 32
SAMPLE PAPER TEST 01 FOR BOARD EXAM 2023
(ANSWERS)

SUBJECT: MATHEMATICS
CLASS : X

MAX. MARKS : 80
DURATION : 3 HRS

General Instruction:

1. This Question Paper has 5 Sections A-E.
2. Section A has 20 MCQs carrying 1 mark each.
3. Section B has 5 questions carrying 02 marks each.
4. Section C has 6 questions carrying 03 marks each.
5. Section D has 4 questions carrying 05 marks each.
6. Section E has 3 case based integrated units of assessment (04 marks each) with sub-parts of the values of 1, 1 and 2 marks each respectively.
7. All Questions are compulsory. However, an internal choice in 2 Qs of 5 marks, 2 Qs of 3 marks and 2 Questions of 2 marks has been provided. An internal choice has been provided in the 2marks questions of Section E
8. Draw neat figures wherever required. Take $\pi = 22/7$ wherever required if not stated.

SECTION – A

Questions 1 to 20 carry 1 mark each.

1. The LCM of two numbers is 14 times their HCF. The sum of LCM and HCF is 600. If one number is 280, then the other number is
(a) 20 (b) 28 (c) 60 (d) 80
Ans: (d) According to the question, $LCM + HCF = 600$
Since $LCM = 14 \times HCF$
 $\Rightarrow 14 \times HCF + HCF = 600 \Rightarrow 15 \times HCF = 600 \Rightarrow HCF = 600 \div 15 = 40$
 $\Rightarrow LCM = 600 - HCF = 600 - 40 = 560$
We know that $HCF(a, b) \times LCM(a, b) = a \times b$
 $\Rightarrow \text{Other number} = 40 \times 560 / 280 = 80$
2. When 2120 is expressed as the product of its prime factors we get
(a) $2 \times 5^2 \times 53$ (b) $2^3 \times 5 \times 53$ (c) $5 \times 7^2 \times 31$ (d) $5^2 \times 7 \times 33$
Ans: (b) $2120 = 2 \times 2 \times 2 \times 5 \times 53 = 2^3 \times 5 \times 53$
3. If p and q are the zeroes of the quadratic polynomial $f(x) = 2x^2 - 7x + 3$, find the value of $p + q - pq$ is
(a) 1 (b) 2 (c) 3 (d) None of these
Ans: (b) 2
4. The pair of linear equations $2x + 3y = 5$ and $4x + 6y = 10$ is
(a) inconsistent (b) consistent (c) dependent consistent (d) none of these
Ans: (c)
 $\frac{a_1}{a_2} = \frac{2}{4} = \frac{1}{2}, \frac{b_1}{b_2} = \frac{3}{6} = \frac{1}{2}, \frac{c_1}{c_2} = \frac{-5}{-10} = \frac{1}{2}$
 $\Rightarrow \frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$
Therefore, the pair of linear equations has infinity many solutions and hence dependent consistent
5. Points A(3, 1), B(5, 1), C(a, b) and D(4, 3) are vertices of a parallelogram ABCD. The values of a and b are respectively
(a) a = 6, b = 3 (b) a = 2, b = 1 (c) a = 4, b = 2 (d) None of these
Ans: (a) a = 6, b = 3

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physical properties for freon 407c and freon 407a are shown in table 3 the pressure enthalpy diagrams for freon 407c are

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appendix b log p h diagrams for refrigerants swep - May 12 2023

web the log p h diagrams on this page can be retrieved from the coolpack program which can be downloaded here this page

shows log p h diagrams for the following refrigerants r22 r134a r404a r407c r410a r717 ammonia r744 carbon dioxide r507

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