BISHOP SCOTT BOYS' SCHOOL

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REVISION PRACTICE ASSIGNMENT (RPA) SUBJECT-MATHEMATICS

SESSION-2020-21 CLASS-X

TOPIC:REAL NUMBERS

SECTION-A (MCQ)

- 1. For some integer m, every even integer is of the form (B) m + 1 (D) 2m + 1(A) m (C) 2m 2. If the HCF of 65 and 117 is expressible in the form 65m – 117, then the value of m is (A) 4 (B) 2 (D) 3
 - (C) 1
- 3. The product of a non-zero rational and an irrational number is
 - (A) always irrational
 - (B) always rational
 - (C) rational or irrational
 - (D) one
- 4. The least number that is divisible by all the numbers from 1 to 10 (both inclusive) is (A) 10 (B) 100 (C) 504 (D) 2520
- 5. 3.24636363... is:
 - (a) a terminating decimal number
 - (b) a non-terminating repeating decimal number
 - (c) a rational number
 - (d) both (b) and (c)

SECTION-B (VERY SHORT ANSWER TYPE)

- 6. The values of the remainder r, when a positive integer a is divided by 3 are 0 and 1 only. Justify your answer.
- 7. Explain why $3 \times 5 \times 7 + 7$ is a composite number
- 8. Show that any positive odd integer is of the form 6m + 1, or 6m + 3, or 6m + 5, where m is some integer
- 9. The HCF of two numbers is 23 and their LCM is 1449. If one of the number is 161 find the other number
- 10. Using Euclid Division Lemma find the HCF of 504 & 1188



 $\{1x5=5\}$

$\{1x5=5\}$

SECTION-C (SHORT ANSWER TYPE)

$\{2x3=6\}$



SECTION-D (LONG ANSWER TYPE)

14.

Crossword Puzzle Sheet



Across

- Fundamental theorem of ______ states that every composite number can be uniquely expressed as a product of primes, apart from the order of factors.
- 7. The ______ factorization of composite numbers is unique.
- 10. _____ numbers have either terminating or non-terminating repeating decimal expansion.

Down

- 1. _____ is a sequence of well defined steps to solve any problem.
- 2. Numbers having non-terminating, non-repeating decimal expansion are known as
- 3. A proven statement used as a stepping stone towards the proof of another statement is known as
- 5. Decimal expansion of 3/35 is
- 6. The _______ expansion of rational numbers is terminating if the denominator has 2 & 5 as its only factors.
- 8. _____ division algorithm is used to find the HCF of two positive numbers.
- 9. For any two numbers, HCF × LCM = _____ of numbers.