



GOVIND VIDYALAYA

TAMULIA

Daily Practice Paper (DPP)

Subject-Mathematics

Practice Test

Test Module Assignment Practical Questions Project

Questions Wizard

- 01) PROBABILITY OF SOLVING SPECIFIC PROBLEM INDEPENDENTLY BY A AND B ARE $\frac{1}{2}$ AND $\frac{1}{3}$, RESPECTIVELY . IF BOTH ARE TO SOLVE THE PROBLEM INDEPENDENTLY , FIND THE PROBABILITY THAT
- THE PROBLEM IS SOLVED
 - EXACTLY ONE OF THEM SOLVES THE PROBLE.
- 02) A LABORATORY BLOOD TEST IS 99% EFFECTIVE IN DETECTING A CERTAIN DISEASE WHEN IT IS IN FACT PRESENT.HOWEVER,THE TEST ALSO YIELDS A FALSE POSITIVE RESULT FOR 0.5% OF THE HEALTHY PERSON TESTED[I.E.,IF A HEALTHY PERSON IS TESTED,THEN WITH PROBABILITY 0.005,THE TEST WILL IMPLY HE HAS THE DISEASE].IF 0.1% OF THE POPULATION ACTUALLY HAS THE DISEASE,WHAT IS THE PROBABILITY THAT A PERSON HAS DISEASE GIVEN THAT HIS TEST RESULT IS POSITIVE.
- 03) A CARD FROM A PACK OF 52 CARDS IS LOST .FROM THE REMAINING CARDS OF THE PACK , TWO CARDS ARE DRAWN AND ARE FOUND TO BE DIAMONDS .FIND THE PROBABILITY OF THE LOST CARD BEING A DIAMOND.
- 04) AN URN CONTAIN 25 BALLS OF WHICH 10 BALLS BEAR A MARK X AND THE REMAINING 15 BEAR A MARK Y . A BALL IS DRAWN AT RANDOM FROM THE URN, ITS MARK NOTE DOWN AND IT IS REPLACED. IF 6 BALLS ARE DRAWN IN THIS WAY . FIND THE PROBABILITY THAT
- ALL WILL BEAR X MARK
 - NOT MORE THAN 2 WILL BEAR Y MARK.
 - ATLEAST ONE BALL WILL BEAR Y MARK.
 - THE NUMBER OF BALLS WITH X MARK AND Y MARK WILL BE EQUAL.
- 05) TWO NUMBER ARE SELECTED AT RANDOM (WITHOUT REPLACEMENT) FROM THE FIRST SIX POSITIVE INTEGERS. LET X DENOTE THE LARGER OF THE TWO NUMBERS OBTAINED. FIND E (X).

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