

KHATRA ADIBASI MAHAVIDYALAYA
INTERNAL ASSESSMENT 6TH SEM 2020
SUB: MATH (H) COURSE TITLE : NUMBER THEORY (DSE T7)
PAPER -SH/MTH /603/DSE- 3 F.M.-10

Answer any one question (10 marks)

1. (a) State and prove Chinese remainder theorem.
(b) Find the general solution of $8x + 5y = 81$.

2. (a) State and prove Euler's theorem.
(b) Express $(2^2 + 5^2)(3^2 + 8^2)(4^2 + 7^2)$ as sum of two squares.

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