

DSE 3B UNIT 1

ANSWER ALL THE FOLLOWING QUESTIONS.

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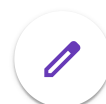
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1. The solution of linear Diophantine equation $172x + 20y = 1000$ is $x = 500 + 5t, y = -4250 - 43t$. Then for positive solution 't' has

- a) One solution
- b) Two solution
- c) More than two solution
- d) No solution.

a

b

c

d

2. The remainder obtained upon dividing the sum $1! + 2! + 3! + 4! + \dots + 99! + 100!$ By 12 is

a) 9

b) 10

c) 11

d) none of these

a

b

c

d



3. Solution of the system of equation

$$x \equiv 2 \pmod{3}, x \equiv 3 \pmod{5}, x \equiv 2 \pmod{7}$$

is

a) 233

b) 203

c) 133

d) 321

a

b

c

d

4. If p is a prime and $p|ab$ then

a) $p|a$ or $p|b$

b) $p|a$ and $p|b$

c) Both (a) and (b)

d) None of the above

a

b

c

d



5. The product of two or more integers of the form $4n+1$ is of the form
a) $4n+3$ b) $4n+5$ c) $4n+1$ d) none of these

a

b

c

d

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