

DSE 3B 2ND INTERNAL

ANSWER ALL THE FOLLOWING QUESTIONS.

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1. If $\sigma(n)$ denotes the sum of divisors of a positive integer n then $\sigma(180) =$
a) 546 b) 576 c) 543 d) 545

- a
 b
 c
 d

2. If $\mu(n)$ denotes the *Möbius* – μ function then
$$\mu(n)\mu(n + 1)\mu(n + 2)\mu(n + 3)$$

equals

a) 1 b) 0 c) n d) $n + 3$

- a
 b
 c
 d

3. The exponent of 2 in the prime factorization of $50!$ is
a) 45 b) 47 c) 12 d) 25

- a



- b
- c
- d

4. The unit digit in 3^{100} is

- a) 1 b) 3 c) 5 d) 7

- a
- b
- c
- d

5. The number of integers less than 900 and prime to 900 is

- a) 128 b) 108 c) 240 d) 360

- a
- b
- c
- d

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