



Seat No. : \_\_\_\_\_

# DE-106

December-2025

IMBA, Sem.-III (NEP SYLLABUS)

IMBA in Finance (FM) / IMBA in HR and

Public Administration (HRPA) / IMBA in Business Management (BM)

DPPG-IMBA-AEC-235 / DPPG-IMBAF-AEC-235 / DPPG-IMBAH-AEC-235 :

Logical and Critical Thinking (LCT)

Time : 1:00 Hour]

[Max. Marks : 25

1. (A) State forms of argument. Explain Deductive argument. 5
1. (B) Explain types of categorical proposition. 5

**OR**

1. (A) State forms of argument. Explain In-deductive argument. 5
1. (B) Explain types of categorical syllogism. 5

2. (A) Out of three numbers, second number is twice the first and is also thrice the third. If average is 44, find the largest number. 5
2. (B) A and B started a business by investing money in ratio of 5 : 6. C joined them after few months by sharing an amount equal to B's share. At the end of year 20% profit was earned which was equal to ₹ 98,000. How much money was invested by C ? 5

**OR**

2. (A) If A lends ₹ 3,500 to B at 10% p.a. and B lends the same sum to C at 11.5% p.a., then the gain of B (in ₹) in a period of 3 years is ? 5
2. (B) The compound interest on a sum of money for 2 years is ₹ 832 and the simple interest on the same sum for the same period is ₹ 800. The difference between the compound interest and the simple interest for 3 years will be ? 5

3. Short Answer / MCQ : (Any 5 out of 6)

5

- (1) A sound argument is a valid deductive argument with true premises. (True/False)
- (2) How many prime numbers are there less than 50 ?
- (3) If the number  $97215 * 6$  is completely divisible by 11, then the smallest whole number in place of \* will be \_\_\_\_\_.
- (4) Find an average of first 15 natural numbers.
- (5) If Arun's birthday is on May 25 which is Monday and his sister's birthday is on July 13. Which day of the week is his sister's birthday ?
- (6) If  $(a + b) : (a - b) = 17 : 1$ , then the value of  $a^2 - b^2$  is \_\_\_\_\_.

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