

## Probability and Statistics (IT302) Lab Program-6 Test Cases

**Reg. No 181067181IT102 - 181762181IT141**

### Test Cases

- |         |       |      |     |
|---------|-------|------|-----|
| 1. m=6, | n= 6, | o=6, | a=4 |
| 2. m=6, | n=-5, | o=4, | a=3 |
| 3. m=7, | n=6,  | o=6, | a=5 |
| 4. m=5, | n=3,  | o=3, | a=5 |
| 5. m=4, | n=4,  | o=4, | a=4 |
| 6. m=3, | n=3,  | o=3  | a=5 |

**Intermediate Results:**  $E(XY)$  ,  $\mu_X$ ,  $\mu_Y$

**Reg. No 181481181IT143 - 181034181IT232**

#### Test Case-1

$f(x,y)$		$x$		
		2	4	6
$y$	1	0.4	0.4	0.2
	3	0.4	0.2	0.4
	5	0.2	0.4	0.4

#### Test Case-2

$f(x,y)$		$x$		
		3	6	9
$y$	3	0.1	0.6	0.3
	5	0.2	0.5	0.3
	7	0.3	0.3	0.6

#### Test Case-3

$f(x,y)$		$x$		
		2	3	4
$y$	4	0.4	0.4	0.2
	5	0.4	0.2	0.4
	6	0.2	0.4	0.4

#### Test Case-4

$f(x,y)$		$x$		
		4	5	6
$y$	2	0.1	0.6	0.3
	3	0.2	0.5	0.3
	4	0.3	0.3	0.6

#### Test Case-5

$f(x,y)$		$x$		
		2	3	4
$y$	4	0.4	0.4	0.2
	5	0.4	0.2	0.4
	6	0.2	0.4	0.4

#### Test Case-6

$f(x,y)$		$x$		
		4	5	6
$y$	2	0.1	0.6	0.3
	3	0.2	0.5	0.3
	4	0.3	0.3	0.6

**Intermediate Results:**  $E(XY)$  ,  $\mu_X$ ,  $\mu_Y$

## Probability and Statistics (IT302) Lab Program-6 Test Cases

Reg. No 1181579181IT233 - 181047181IT254, 15645415IT206

**Test Case-1**

$f(x,y)$		$x$	
		1	5
$y$	5	0.2	0.8
	4	0.8	0.2
	3	0.7	0.3

**Test Case-2**

$f(x,y)$		$x$	
		4	5
$y$	1	0.5	0.5
	2	0.6	0.4
	3	0.3	0.7

**Test Case-3**

$f(x,y)$		$x$	
		1	3
$y$	3	0.5	0.5
	4	0.4	0.6
	5	0.3	0.7

**Test Case-4**

$f(x,y)$		$x$	
		5	5
$y$	1	0.4	0.6
	2	0.6	0.4
	3	0.5	0.5

**Test Case-5**

$f(x,y)$		$x$	
		3	7
$y$	3	0.5	0.5
	4	0.4	0.6
	5	0.3	0.7

**Test Case-6**

$f(x,y)$		$x$	
		6	6
$y$	7	0.4	0.6
	3	0.6	0.4
	2	0.5	0.5

**Intermediate Results:**  $E(XY)$  ,  $\mu_x$ ,  $\mu_y$