**Exam 1**

**(A) Choose the correct answer: -**

|  |  |  |  |
| --- | --- | --- | --- |
| 1) if ……………. | | | |
| (a) | (b) 4 | (c) | (d) 1 |
| 2) if tan 3X = , m( ………….. | | | |
| (a) | (b) | (c) | (d) |
| 3) if X = {1,3,5} and R is a function on X , R = {(1,1) , (b,5) , (3,a)} ,  then a + b = …………….. | | | |
| (a) 3 | (b) 5 | (c) 6 | (d) 8 |
| 4) if cos = 0.4 , then m( ………….. | | | |
| (a) | (b) | (c) | (d) |

**(B) Find value of if :**  , where is measure of acute angle

**Exam 2**

**(A) Choose the correct answer: -**

|  |  |  |  |
| --- | --- | --- | --- |
| 1) if , then ………… | | | |
| (a) 3 | (b) -3 | (c) | (d) Zero |
| 2) if 2 sin X = tan 45 , so m( ………….. | | | |
| (a) | (b) | (c) | (d) |
| 3) 2 = …………. | | | |
| (a) | (b) | (c) | (d) |
| 4) if ( +1 , k ) = (4, +1) , then k = …………. | | | |
| (a) 3 | (b) 4 | (c) 9 | (d) 10 |

**(B) without calculator , find value of**

**Exam 3**

**(A) Choose the correct answer: -**

|  |  |  |  |
| --- | --- | --- | --- |
| 1) if are two complementary angles and sin A = , so cos B = ……… | | | |
| (a) | (b) | (c) | (d) |
| 2) if ( , 11) = (8 , ) , then …………. | | | |
| (a) 9 | (b) | (c) 25 | (d) 5 |
| 3) if sin where is the measure of an acute angle , then x = ……... | | | |
| (a) | (b) | (c) | (d) |
| 4) if R is function from x to y , so y is called ………………. | | | |
| (a) domain | (b) range | (c) codomain | (d) rule of f |

**(B) if**  , Find m( where is an acute angle

**Exam 4**

**(A) Choose the correct answer: -**

|  |  |  |  |
| --- | --- | --- | --- |
| 1) in , if m( then + ………….. | | | |
| (a) 2 | (b) 2 | (c) 2 | (d) |
| 2) if where is an acute angle, then = …………… | | | |
| (a) | (b) | (c) | (d) |
| 3) if the point (2a , 3b) lies on x-axis then = …………. | | | |
| (a) 0 | (b) | (c) 2 | (d) 3 |
| 4) if and Y = {4} so n() = ……………. | | | |
| (a) 1 | (b) 4 | (c) 8 | (d) 16 |

**(B) without calculator , find the value of :**

**Exam 5**

**(A) Choose the correct answer: -**

|  |  |  |  |
| --- | --- | --- | --- |
| 1) XYZ is a right-angled triangle at Y , XY = 4cm , XZ = 5cm then sin X cos X = …………. | | | |
| (a) | (b) | (c) 1 | (d) |
| 2) if ( , 5) lies on Y-axis so …………. | | | |
| (a) zero | (b) 3 | (c) 6 | (d) 12 |
| 3) if , where is the measure of an acute angle , then …… | | | |
| (a) | (b) | (c) | (d) |
| 4) if X = {1 , 2} , y ={5 , 6} , then (5,1) ………….. | | | |
| (a) | (b) Y | (c) | (d) |

**(B) find value of** ( where is an acute angle)

**Exam 6**

**(A) Choose the correct answer: -**

|  |  |  |  |
| --- | --- | --- | --- |
| 1) In ABC is a right-angled triangle at A , which have the same value of sin C ? | | | |
| (a) sin B | (b) cos B | (c) tan C | (d) cos C |
| 2) if tan = , where is measure of an acute angle, then …….. | | | |
| (a) 15 | (b) 30 | (c) 45 | (d) 60 |
| 3) if function *f*= {(1,3) , (2,3) , (3,3)} then the range = ………….. | | | |
| (a) {3} | (b) {1,2,3} | (c) {1,2} | (d) {1} |
| 4) if the point ( , 5 ) lies on the y-axis then ……………… | | | |
| (a) a = b | (b) a= | (c) | (d) |

**(B) without calculator , find the value of :**

2

**Exam 7**

**(A) Choose the correct answer: -**

|  |  |  |  |
| --- | --- | --- | --- |
| 1) if () lies on second quadrant , so x = …………. | | | |
| (a) 0 | (b) | (c) | (d) 2 |
| 2) ……………… | | | |
| (a) | (b) 1 | (c) | (d) |
| 3) if , so = ……………. | | | |
| (a) 1 | (b) 3 | (c) 6 | (d) 36 |
| 4) in , if m ( , then m( …………. | | | |
| (a) 45 | (b) 105 | (c) 90 | (d) 85 |

**(B) without calculator , find the value of**

**Exam 8**

**(A) Choose the correct answer: -**

|  |  |  |  |
| --- | --- | --- | --- |
| 1) 2 sin tan = ……………. | | | |
| (a) | (b) | (c) | (d) |
| 2) if {3} {1 , y} = {(3,x) , (3,5)} , then x+ 2y = ………… | | | |
| (a) 1 | (b) 5 | (c) 10 | (d) 11 |
| 3) If = ………… | | | |
| (a) 1 | (b) 2 | (c) 3 | (d) 4 |
| 4) if the point (k , ) lies on X-axis , then K may be equal to …… | | | |
| (a) 2 | (b) 3 | (c) 4 | (d) 5 |

**(B) if 2** where is a measure of an acute angle , then find the value of :