

105. A Solution of the equation  $p(x, y) = 0$  is a pair of values of  $x$  and  $y$  which makes a \_\_\_\_\_ statement.  
 (a) False (b) True  
 (b) Open (d) None of these
106. The solution set of the given system  $xy = 1, 4y = 3x^2 + 4$ .  
 (a)  $\left(\frac{-2}{3}, \frac{-3}{2}\right)$  (b)  $\left(\frac{2}{3}, \frac{3}{2}\right)$   
 (c)  $\left(\frac{3}{2}, \frac{2}{3}\right)$  (d) None of these
107. The Solution set of the System  $3x^2 - y^2 = 12; 3x^2 + 4y^2 = 192$ .  
 (a)  $(-4, -6)$  (b)  $(6, 4)$  (c)  $(4, 6)$  (d)  $(0, 0)$
108. The Solution set of the System  $5x^2 + 4y^2 = 16; 13x^2 - 5y^2 = 57$ .  
 (a)  $(i, 2)$  (b)  $(2, i)$   
 (c)  $(-2, -i)$  (d) None of these
109. The Solution Set of the System  $x^2 + y^2 = 85; x^2 - 6xy + 8y^2 = 0$   
 (a)  $(-4\sqrt{5}, -\sqrt{5})$  (b)  $(\sqrt{5}, 4\sqrt{5})$   
 (c)  $(4\sqrt{5}, \sqrt{5})$  (d) None of these
110. The Solution Set of the System  $4x^2 + y^2 = 25; y^2 - 2x = 5$ .  
 (a)  $(3, 2)$  (b)  $(2, 3)$  (c)  $(-2, -3)$  (d)  $(0, 0)$
111. let two positive numbers which differ by 18 and whose product is 208. Convert in System of equations.  
 (a)  $x - y = 18$   
 $xy = 208$   
 (c)  $x^2 + y^2 = 18$   
 $xy = 208$   
 (b)  $x + y = 18$   
 $x - y = 208$   
 (d) None of these
112. The difference of two numbers is 5 and the difference of their square is 275. Find the Smaller number.  
 (a) 25 (b) -25 (b) 20 (d) -15
113. The sum of two numbers is 32 and the sum of their squares is 904. Find the greater number.  
 (a) -30 (b) 25 (c) 30 (d) 35

114. The sum of the squares of two numbers is 925 and the difference of their squares is 875. Convert in System of equation.
- (a)  $x^2 + y^2 = 925$  (b)  $x^2 + y^2 = 925$   
 $x^2 + 2y^2 = 875$   $x^2 - y^2 = 875$   
 (c)  $xy = 925$  (d) None of these  
 $x^2 + y^2 = 875$
115. The sum of the circumferences of two circles is  $24\pi$  m and the sum of their areas is  $80\pi$  m<sup>2</sup> convert in system of equations.
- (a)  $2\pi r_1 - 2\pi r_2 = 24\pi$  (b)  $2\pi r_1 - 2\pi r_2 = 24\pi$   
 $\pi r_1^2 + \pi r_2^2 = 80\pi$   $\pi r_1^2 - \pi r_2^2 = 80\pi$   
 (c)  $2\pi r_1 + 2\pi r_2 = 24\pi$  (d) None of these  
 $\pi r_1^2 + \pi r_2^2 = 80\pi$
116. If a, b, c be the sides of a triangle then perimeter = \_\_\_\_\_.
- (a)  $\frac{(a+b+c)}{3}$  (b)  $\frac{(a+b+c)}{2}$  (c)  $\frac{(a+b+c)}{4}$  (d)  $a \times b \times c$
117. If x and y be the sides of a rectangle then perimeter = \_\_\_\_\_.
- (a)  $\left(\frac{x+y}{2}\right)$  (b)  $\left(\frac{x+y}{3}\right)$  (c)  $3x + 3y$  (d)  $2x + 2y$
118. If the radius of a circle be "r" then circumference c = \_\_\_\_\_.
- (a)  $2\pi r$  (b)  $\pi r$  (c)  $\pi r^2$  (d)  $3\pi r$
119. If the radius of a circle be "r" then area = \_\_\_\_\_.
- (a)  $2\pi r$  (b)  $\pi r$  (c)  $3\pi r$  (d)  $\pi r^2$
120. An isosceles triangle has \_\_\_\_\_ sides are equal.
- (a) 2 (b) 4 (c) 1 (d) 3
121. An equilateral triangle has \_\_\_\_\_ sides are equal.
- (a) 2 (b) 4 (c) 1 (d) 3
122. If length of each side of a square = a then area of Square = \_\_\_\_\_.
- (a)  $\frac{1}{2}a^2$  (b)  $a^2$  (c)  $\frac{1}{3}a^2$  (d)  $\frac{1}{4}a^2$
123. If length = a and breadth = b then area of rectangle = \_\_\_\_\_.
- (a)  $a + b$  (b)  $\frac{1}{2}a \times b$  (c)  $a \times b$  (d)  $\frac{1}{3}a \times b$

124. If  $x + y = 5$ ;  $\frac{3}{x} + \frac{2}{y} = 2$  then  $(x, y) =$  \_\_\_\_\_.
- (a) (2, 3) (b) (-3, -2) (c) (3, 2) (d) (0, 0)
125. If  $2x^2 + y^2 = 13$   
 $5x^2 - 2y^2 + 8 = 0$  then  $(x, y) = ?$
- (a) (3, 2) (b)  $(\sqrt{2}, -3)$  (c) (3, -5) (d) (0, 0)
126.  $xt + 15 = 0$ ;  $x^2 + t^2 = 34$ .
- (a) (3, 2) (b)  $(\sqrt{2}, -3)$  (c) (3, -5) (d) (-5, -3)
127. If  $2x^2 - 25xy + 12y^2 = 0$   
 $x^2 + y^2 = 25$  then  $(x, y) = ?$
- (a) (3, 2) (b) (4, 3) (c) (3, -5) (d) (0, 0)
128. If  $y + z = 5$ ;  $y^2 + 2z^2 = 17$  then  $(y, z) =$  \_\_\_\_\_.
- (a) (-3, -2) (b) (3, 2) (c) (2, 3) (d) (-2, -3)
129. Equation  $p(x, y) = 0$  has \_\_\_\_\_ solution.
- (a) Two (b) Three (c) Infinite (d) Four
130. The Set of all Solutions Satisfying equation  $p(x, y) = 0$  is called \_\_\_\_\_.
- (a) Subset (b) Null Set  
 (c) Power set (d) Solution set
131. The Solution Set of  $x - y = -1$ ;  $x + 2y = 5$  is \_\_\_\_\_.
- (a)  $\{(1, 2)\}$  (b)  $\{-1, -2\}$  (c)  $\{(-1, 2)\}$  (d)  $\{1, -2\}$
132.  $\sqrt{x+2} = 0$  is an/a \_\_\_\_\_ equation.
- (a) linear (b) Quadratic (c) Radical (d) Cubic
133. The order pair satisfying  $x - y = 7$  is \_\_\_\_\_.
- (a) (7, 7) (b) (7, 0) (c) (0, 7) (d) (-1, -6)
134. The Solution Set of  $x + y = 1$  and  $x - y = 5$  is \_\_\_\_\_.
- (a)  $\{(3, -2)\}$  (b)  $\{(-3, 2)\}$  (c)  $\{(3, -2)\}$  (d)  $\{(-3, -2)\}$
135. The Solution Set of  $x + y = 1$  and  $x - y = 0$  is \_\_\_\_\_.
- (a)  $\left(\frac{1}{2}, \frac{1}{2}\right)$  (b)  $\left(\frac{1}{2}, -\frac{1}{2}\right)$   
 (c)  $\left(-\frac{1}{2}, \frac{1}{2}\right)$  (d) (0, 0)
136. The perimeter of an isosceles triangle is 36 cm which are is true.
- (a)  $2x + y = 36$  (b)  $x + 2y = 36$   
 (c)  $2x - y = 36$  (d) None of these

137. In an isosceles triangle the Altitude through one vertex to the opposite side is called \_\_\_\_\_.  
(a) Orthocentre (b) Incentre  
(c) Median (d) None of these
138. The Sum of two positive numbers is 21 and the sum of their squares is 261. The positive numbers are \_\_\_\_\_.  
(a) 11, 10 (b) 6, 15 (c) 14, 7 (d) 16, 5
139. The sum of two positive numbers is 16 and their difference is 2 the numbers are \_\_\_\_\_.  
(a) 10, 6 (b) 11, 9 (c) 9, 7 (d) 12, 4
140. Find two positive numbers whose sum is 24 and the sum of whose squares is 416.  
(a) 20 and 4 (b) 15 and 6 (c) 12 and 8 (d) 18 and 8
141. Find two positive numbers whose sum is 25 and the difference of whose squares is 375.  
(a) 15 and 10 (b) 20 and 5  
(c) 13 and 12 (d) 18 and 17
142. The difference of two numbers is 5 and the difference of their squares is 125, the smallest number is.  
(a) 10 (b) 5 (c) 30 (d) 35

<b>101.</b>	<i>d</i>	<b>102.</b>	<i>a</i>	<b>103.</b>	<i>a</i>	<b>104.</b>	<i>c</i>	<b>105.</b>	<i>b</i>
<b>106.</b>	<i>b</i>	<b>107.</b>	<i>d</i>	<b>108.</b>	<i>b</i>	<b>109.</b>	<i>c</i>	<b>110.</b>	<i>b</i>
<b>111.</b>	<i>a</i>	<b>112.</b>	<i>a</i>	<b>113.</b>	<i>c</i>	<b>114.</b>	<i>b</i>	<b>115.</b>	<i>c</i>
<b>116.</b>	<i>b</i>	<b>117.</b>	<i>d</i>	<b>118.</b>	<i>a</i>	<b>119.</b>	<i>d</i>	<b>120.</b>	<i>a</i>
<b>121.</b>	<i>d</i>	<b>122.</b>	<i>b</i>	<b>123.</b>	<i>c</i>	<b>124.</b>	<i>c</i>	<b>125.</b>	<i>b</i>
<b>126.</b>	<i>c</i>	<b>127.</b>	<i>b</i>	<b>128.</b>	<i>b</i>	<b>129.</b>	<i>c</i>	<b>130.</b>	<i>d</i>
<b>131.</b>	<i>a</i>	<b>132.</b>	<i>c</i>	<b>133.</b>	<i>b</i>	<b>134.</b>	<i>a</i>	<b>135.</b>	<i>a</i>
<b>136.</b>	<i>a</i>	<b>137.</b>	<i>c</i>	<b>138.</b>	<i>b</i>	<b>139.</b>	<i>c</i>	<b>140.</b>	<i>a</i>
<b>141.</b>	<i>b</i>	<b>142.</b>	<i>b</i>						