

Name: _____						Subject: Mathematics		Class: 10 th		Time: 80 minutes		Total Marks: 30	
Chapter No.10+Theorem 3				MJDexpert.com				Obtained marks					

Note: Please attempt any 10 short questions from Question 2. Also, attempt both parts of Question 3. Cutting and removal of any content is strictly prohibited.

Q.No.1: Choose the correct Answer. $10 \times 1 = 10$

1. A line which has two points in common with circle is called:			
a) Sine of circle	b) Cosine of circle	c) Tangent of circle	d) Secant of circle
2. A line which has only one point common with circle is called:			
a) Sine of circle	b) Cosine of circle	c) Tangent of circle	d) Secant of circle
3. Two tangents drawn to a circle from a point outside it is of in length			
a) Half	b) Equal	c) Double	d) Triple
4. A circle has only one			
a) Secant	b) Chord	c) Diameter	d) Center
5. A tangent line intersect the circle at:			
a) Three points	b) Two points	c) Single point	d) No point at all
6. Tangents drawn at the ends of diameter of a circle are.... to each other :			
a) Parallel	b) Non parallel	c) Collinear	d) Perpendicular
7. The distance between the centers of two congruent touching circles externally is:			
a) Of zero length	b) The radius of each circle	c) The diameter of each circle	d) Twice the diameter of each circle
8. In a circle find semicircular area if $\pi = 3.14$ and radius is 20cm			
a) 68.83 sq. cm	b) 314.16 sq. cm	c) 436.20 sq. cm	d) 628.32 sq. cm
9. A tangent to a circle is perpendicular to the radial segment drawn to the point of :			
a) Contact	b) Tangency	c) Concurrency	d) Tangent
10. Tangents drawn at the ends of _____ a circle are parallel to each other			
a) Chord	b) Diameter	c) Corners	d) Arc

Q.No.2: Give the Short answer. $(6 \times 2 = 12)$

i. Define secant of a circle.
ii. Define tangent of circle.
iii. Define point of contact .
iv. How we can measure the length of tangent?
v. Define Geometry.
vi. Differentiate between major and minor arc.

Q.No.2: Give the answer. $(8 \times 1 = 8)$

a) Prove that perpendicular from the center of a circle on a chord bisect it.
