



ST. LAWRENCE HIGH SCHOOL

TOPIC – Theorems on Concurrence and Construction

Subject : Mathematics Class-9 F. M. 15

WORKSHEET NO. - 4 Second Term Date: 16.11.2020

Q.1) <u>(</u>	Choose the correct option:		(1	x15=15)	
i) G is the centroid of Δ ABC. If area of Δ GBC is 12 sq. cm, then th area of Δ ABC is					
	a) 24 sq. cm	b) 6 sq. cm	c) 36 sq. cm	d) 12 sq.cm	
ii) If the length of circumradius of a right angled triangle is 5cm, then the length of hypotenuse is					
	a) 2.5 cm	b) 10 cm	c) 5 cm	d) 20 cm	
iii) -	iii) The length of the circumradius of the triangle having sides 9cm, 12cm and 15 cm is				
	a)6 cm	b) 9 cm	c) 4.5 cm	d) 7.5 cm	
iv) O is the circmcentre of the \triangle ABC. If <u>/BOC</u> = 100°, then measure of <u>/BAC</u> is					
	a) 50°	b) 80°	c) 60°	d) 40°	
v) In the \triangle ABC, AD is a median and G is the centroid. If AG = 5 cm, then measure of GD is					
	a) 3 cm	b) 2cm	c) 10 cm	d) 2.5 cm	
vi) O is the incentre of \triangle ABC. If $\underline{/BAC}$ = 30°, then measure of $\underline{/BOC}$ is					
	a) 60°	b) 100°	c) 105°	d) 120°	
vii) li	_	midpoint of the side AC. If $AB = 6$		_	
\	a) 3cm	b) 4 cm	c) 5cm	d) 10 cm	
viii) G is the centroid of \triangle ABC. If AG = 8cm, then length of the median through A is					
	a) 16 cm	b) 12 cm	c) 4 cm	d) 8 cm	
ix) G	Δ is the centroid of Δ ABC, and if				
\	a) 3:2	b) 2:3	c) 2 : 1	d) 1 : 2	
x) 11		<u>BO</u> = 40° and <u>/ACO</u> = 30°, then n		.1) 4.409	
	a) 110°	b) 100°	c) 130°m	d) 140°	
XI) In		$\underline{BAC} = 70^{\circ}$, then measure of \underline{B}		۹/ ۵۵۰	
v::\ 0	a) 110°	b) 120°	c) 140°	d) 90°	
XII) U	a) 30°	<u>/BOC</u> = 120°, then measure of b) 40°	<u>/ACO_</u> IS c) 50°	۹/ د۰۰	
v:::\	,	•		d) 60°	
XIII) F	a) 2	e needed to construct a triangle´ b) 3	r c) 4	d) 5	
vivl A	•	e needed to construct a quadrila		u) 3	
AIV) F	a) 2	b) 3	c) 4	d) 5	
xv) The point of intersection of the medians of a triangle is called					
	a) Incentre	b) Orthocentre	c) Centroid	d) Circumcentre	
	a, modific	<i>5,</i> 5. 6.000 cm c	o, controla	a, chicameentie	

-Chaitali Roy