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ST. LAWRENCE HIGH SCHOOL

TOPIC – Theorems on Concurrence and Construction

Sub	oject : Mathematics	Class-9	Second Term	F.M. 15	
WORKSHEET NO 4		Solutions		Date: 16.11.2020	
Q.1)	Choose the correct option	:			(1x15=15)
i)	G is the centroid of \triangle ABC. c) 36 sq. cm	If area of Δ GBC	is 12 sq. cm, then th area o	of Δ ABC is	
ii)	If the length of circumradius of a right angled triangle is 5cm, then the length of hypotenuse is b) 10 cm				
iii)	The length of the circumra d) 7.5 cm	dius of the trian	gle having sides 9cm, 12cm	and 15 cm is	
iv)	O is the circmcentre of the a) 50°	Δ ABC. If <u>/BOC</u>	= 100°,then measure of <u>/B</u> ,	<u>AC</u> is	
v)	In the Δ ABC, AD is a media d) 2.5 cm	n and G is the ce	entroid. If AG = 5 cm, then r	neasure of GD is	
vi)	O is the incentre of Δ ABC. c) 105°	lf <u>/BAC</u> = 30°,the	n measure of <u>/BOC</u> is		
vii)	In Δ ABC, <u>/B</u> is rt.angle. D i c) 5cm	s the midpoint o	f the side AC. If AB = 6cm a	nd BC = 8cm, the	n length of BD is
viii)	G is the centroid of Δ ABC. b) 12 cm	If AG = 8cm, the	n length of the median thro	ough A is	
ix)	G is the centroid of \triangle ABC, a) 3 : 2	and if CF is a me	dian, then CF : CG is		
x) ⁻	The incentre of a Δ ABC is C a) 110°	. If <u>/ABO </u> = 40° a	nd <u>/ACO</u> = 30°, then measu	re of <u>/BOC</u> is	
xi) l	n Δ ABC , O is the orthocen a) 110°	ter. If <u>/BAC</u> = 70	°, then measure of <u>/BOC</u> i	S	
xii) (D is the orthocentre of Δ AE a) 30°	BC . If <u>/BOC</u> = 12	20° , then measure of <u>/ACO</u>	_is	
xiii)	At least how many condition b) 3	ons are needed to	o construct a triangle?		
xiv)	At least how many condition d) 5	ons are needed to	o construct a quadrilateral?)	
xv) ⁻	The point of intersection of c) Centroid	the medians of a	a triangle is called		

-Chaitali Roy