MULTIPLE CHOICE QUESTIONS ON SECTIONS 6.2 & 6.3:

Note: 1) Complete each equation to get specific case of an addition or subtraction or double angle or half angle formula
2) **NOTA**= none of the above

1- $\sin(-5^o)\cos(-7^o)-\sin(-7^o)\cos(-5^o)=$

a) $\sin(-2^o)$ **b)** $\sin 12^o$ **c)** $\sin 2^o$ **d)** $\sin(-12^o)$ **e) NOTA**

2- $\cos\frac{\pi}{10}\cos\frac{2\pi}{5}+\sin\frac{\pi}{10}\sin\frac{2\pi}{5}=$

a) $\cos\frac{\pi}{2}$ **b)** $-\cos\frac{3\pi}{10}$ **c)** $\cos\frac{3\pi}{10}$ **d)** $\cos\frac{3\pi}{5}$ **e) NOTA**

3- $\sin(2\ +\theta)\cos(\theta-2\ )+\cos(\theta+2\ )\sin(2\ -\theta)=$

a) $\sin 2\theta$ **b)** $\sin 4$ **c)** $-\sin 2\theta$ **d)** $-\sin 4$ **e) NOTA**

4- $\cos(\frac{x}{4}-1)\cos(\frac{x}{4}+1)-\sin(1-\frac{x}{4})\sin(1+\frac{x}{4})=$

a) $\cos 2$ **b)** $\cos\frac{x}{2}$ **c)** $-\cos\frac{x}{2}$ **d)** $\cos(\frac{x}{2}-2)$ **e) NOTA**

5- $\frac{\tan(-75^o)+\tan(35^o)}{1+\tan 75^o\ \tan 35^o}=$

a) $\tan(-40^o)$ **b)** $\tan(-110^o)$ **c)** $\tan 40^o$ **d)** $\tan 110^o$ **e) NOTA**

6- $\frac{\tan(-\frac{\pi}{12})-\tan(-\frac{\pi}{9})}{1+\tan(-\frac{\pi}{12})\tan(-\frac{\pi}{9})}=$

a) $\tan(-\frac{7\pi}{36})$ **b)** $\tan\frac{\pi}{36}$ **c)** $-\tan\frac{\pi}{36}$ **d)** $\tan\frac{7\pi}{36}$ **e) NOTA**

7- $2\sin 40^o\ \cos 40^o\ =$

a) $\sin 20^o$ **b)** $\sin 20^o\ \cos 20^o$ **c)** $\sin 80^o\ \cos 80^o$ **d)** $\sin 80^o$ **e) NOTA**

8- $\sin(-10^o)\cos(-10^o)=$

a) $-\frac{1}{2}\sin 20^o$ **b)** $\sin(-10^o)$ **c)** $\sin(-5^o)\cos(-5^o)$ **d)** $-\frac{1}{2}\sin 5^o$ **e) NOTA**

9- $1-2\sin^2 4\theta=$

a) $\cos 2\theta$ **b)** $\frac{1}{2}\cos 4\theta$ **c)** $\cos 8\theta$ **d)** $\frac{1}{2}\cos 8\theta$ **e) NOTA**

10- $\sin^2\frac{\theta}{4}-\cos^2\frac{\theta}{4}=$

a) $\cos\frac{\theta}{8}$ **b)** $-\cos\frac{\theta}{2}$ **c)** $-\cos\frac{\theta}{8}$ **d)** $-2\cos\frac{\theta}{4}$ **e) NOTA**

11- $2\cos^2\frac{\theta}{2}-1=$

a) $-\sin\theta$ **b)** $\cos\frac{\theta}{4}$ **c)** $\cos\frac{\theta}{2}$ **d)** $-\sin\frac{\theta}{2}$ **e) NOTA**

12- $\sqrt{\frac{1-\cos 50^o}{2}}=$

a) $\sin 25^o$ **b)** $\frac{1}{2}\sin 50^o$ **c)** $\frac{\cos 50^o}{2}$ **d)** $\sin 100^o$ **e) NOTA**

13- $\sqrt{\frac{1+\cos(-10^o)}{2}}=$

a) $\cos 20^o$ **b)** $\cos 5^o$ **c)** $\sin 5^o$ **d)** $\sin 20^o$ **e) NOTA**

14- $\frac{2\tan\frac{\pi}{16}}{1-\tan^2\frac{\pi}{16}}=$

a) $\tan\frac{\pi}{32}$ **b)** $\frac{1}{2}\tan\frac{\pi}{16}$ **c)** $\tan\frac{\pi}{8}$ **d)** $2\tan\frac{\pi}{16}$ **e) NOTA**

15- $\frac{\tan\frac{\pi}{18}}{\tan^2\frac{\pi}{18}-1}=$

a) $\tan\frac{\pi}{9}$ **b)** $\frac{1}{2}\tan(-\frac{\pi}{9})$ **c)** $-\tan\frac{\pi}{9}$ **d)** $\frac{1}{2}\tan\frac{\pi}{9}$ **e) NOTA**

16- $\frac{1-\cos\frac{\pi}{7}}{\sin\frac{\pi}{7}}=$

a) $\tan\frac{2\pi}{7}$ **b)** $\tan\frac{\pi}{14}$ **c)** $\frac{1}{2}\tan\frac{\pi}{7}$ **d)** $\tan\frac{7\pi}{2}$ **e) NOTA**

17- $\frac{\sin\frac{6\pi}{5}}{1+\cos\frac{6\pi}{5}}=$

a) $\tan\frac{3\pi}{5}$ **b)** $\tan\frac{12\pi}{5}$ **c)** $\frac{1}{2}\tan\frac{6\pi}{5}$ **d)** $\tan\frac{5\pi}{3}$ **e) NOTA**

18- $\dfrac{\cos(-\frac{\pi}{5})-1}{\sin\frac{\pi}{5}} =$

a) $\tan(-\frac{\pi}{10})$ **b)** $\tan\frac{2\pi}{5}$ **c)** $-\tan\frac{2\pi}{5}$ **d)** $-\frac{1}{2}\tan\frac{\pi}{10}$ **e) NOTA**

19- $-\sqrt{\dfrac{1+\cos 230^o}{2}} =$

a) $\sin 115^o$ **b)** $\cos 115^o$ **c)** $-\cos 115^o$ **d)** $\dfrac{\cos 115^o}{2}$ **e) NOTA**

20- $\sqrt{\dfrac{1-\cos(-\frac{2\pi}{7})}{2}} =$

a) $\sin\frac{\pi}{7}$ **b)** $-\sin\frac{\pi}{7}$ **c)** $\cos\frac{\pi}{7}$ **d)** $\cos(-\frac{\pi}{7})$ **e) NOTA**

21- $\sqrt{\dfrac{1-\cos(-\frac{\theta}{3})}{2}} =$

a) $\sin\frac{\theta}{6}$ **b)** $\sin\frac{2\theta}{3}$ **c)** $\sin(-\frac{2\theta}{3})$ **d)** $\cos\frac{\theta}{6}$ **e) NOTA**