TEMPLATE FOR ASSESSMENTS

- 1. Read Guidelines in case of any doubt check with your mentor.
- 2. The final submission will have to be in soft copy in MS word as per template shared below.
- 3. Use Calibri font size 9
- 4. Keep Questions short and crisp. Word count should not exceed 20 words for questions and 8 words for options.
- 5. In the last row mention the correct option as a) or b)
- 6. The Blooms level has been fixed so please design question accordingly.
- 7. The rows heights have been fixed, so that the table size is not changed. If you have any problem, use this link to learn how to fix it YouTube

Insert the exact details within the <>

<22103>: <BMS>: <Basic Mathematics>: <Factorization and de-factorization>: <co2_uo2.3>:

<Assessments>: <Formative>

<Mrs. Sujata Patil >

Assessment Type: Formative Assessments: Embedded questions in video

Set 1: Question No 1	Set 1: Question No 2	Set 1: Question No 3	
Find 2 cos 75° cos 15° =	Solve: $\frac{\sin 8A + \sin 2A}{\cos 8A + \cos 2A}$	If $\sin 80^0 + \sin 50^0 = 2 \sin \alpha \cos \beta$, then α and β are	
Recall/ Remembering	Understanding	Application	
a) 1	a)tan A	a)60 ⁰ and 20 ⁰	
b) 1/2	b) cot5A	b) 60° and 15°	
c)-1	c) tan5A	c) 65 ⁰ and 15 ⁰	
d) $\frac{-1}{2}$	d) tan3A	d) 65° and 20°	
Ans: 	Ans: <c></c>	Ans: <c></c>	

Set 2: Question No 1	Set 2: Question No 2	Set 2: Question No 3	
2sin3x cos 2x=	Solve: $\frac{\sin 5x + \sin 3x}{\cos 5x + \cos 3x}$	Express cos30° sin 20° as the sum or difference	
Recall/ Remembering	Understanding	Understanding	
a)sin5x+ sin x	a)cot x	a)2($\sin 50^0 - \sin 10^0$)	
b) sin3x+sinx	b) cot4x	b) $\frac{1}{2}$ (sin $50^0 - sin 10^0$)	
c) sin7x+sinx	c) tan x	c) ($\sin 50^0 - sin 10^0$)	
d) sin4x+sinx	d) tan4x	d) ($\sin 50^0 + sin 10^0$)	
Ans: <a>	Ans: <d></d>	Ans: 	

Assessment Type: Summative: End of CO: in LMS

Summative: Q 1	Summative: Q 2	Summative: Q 3	Summative: Q 4	Summative: Q 5
The value of cos 75° cos 15°	If 2sin 40°cos10° = sin A +sin B Then A,B equal to	The value of sin $10^0 sin 30^0 sin 50^0$ sin 70^0 is equal to	Evaluate $\frac{\cos \theta + \cos 2\theta}{\sin 6\theta + \sin 2\theta}$	Evaluate $\frac{sin19^0 + cos11^0}{cos19^0 - sin11^0}$
Recall/ Remembering a) $\frac{1}{2}$	Understanding a) $50^0 and 20^0$	Application a) $\frac{1}{8}$	Understanding a) cot40	Application
b) $\frac{1}{\sqrt{2}}$	b) 70° and 50°	b) 1/16	b) cot2 θ	$b)\frac{1}{\sqrt{2}}$
c) ¹ / ₄ d)1	c) 60^{0} and 10^{0} d) 50^{0} and 30^{0}	c) $\frac{\sqrt{3}}{8}$ d) $\frac{\sqrt{3}}{16}$	c) tan θ d) tan4 θ	c) √3 d) 0
Ans: <c></c>	Ans: <d></d>	Ans: 	Ans: <a>	Ans: <c></c>

Assessment Type: Practice Worksheets: End of CO: in LMS/ downloadable PDF

If students have access to laptop/desktop – they can answer it on LMS, else download it and answer it and file it for later use. They can also copy the question in their notebook in case the space provided is insufficient.

- 1. Best suited for subjective questions.
- 2. Numerical problems
- 3. Short answer questions

A.	Question Space $Show that \frac{sin3A-sinA}{cos3A+cosA} = tanA$	В.	Question Space Apply factorization formulae to simplify $\frac{sin8x - sin5x}{cos7x + cos6x} =$
A.	Answer Space	B.	Answer Space

C. Question Space	e
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Without using calculator show that

$$\cos 10^{\circ} \cos 50^{\circ} \cos 70^{\circ} = \frac{\sqrt{3}}{8}$$

D. Question Space
Prove:
$$\frac{\sin 8x - \sin 5x}{\cos 7x + \cos 6x} = \sin x + \cos x \cdot \tan \left(\frac{x}{2}\right)$$

C. Answer Space

D. Answer Space

E. Question Space
Prove:
$$\frac{\sin 35^{\circ} + \sin 25^{\circ}}{\cos 35^{\circ} + \cos 25^{\circ}} = \frac{1}{\sqrt{3}}$$

F. Question Space Prove: $\frac{\sin 11A \cdot \sin A + \sin 7A \cdot \sin 3A}{\cos 11A \cdot \sin A + \cos 7A \cdot \sin 3A} = \tan 8A$

E.	Answer Space	F.	Answer Space
G.	Question Space	н.	Question Space
Pro	Question Space $\text{ve}: \frac{\cos 2A + 2 \cos 4A + \cos 6A}{\cos A + 2 \cos 3A + \cos 5A} = \cos A - \sin A \cdot \tan 3A$		Prove: $\cos 20^{\circ} \cdot \cos 40^{\circ} \cdot \cos 60^{\circ} \cdot \cos 80^{\circ} = \frac{1}{16}$
	603.1 1 2 6003.1 1 60003.1		

G. Answer Space	H. Answer Space