







Copy of 22103 Set A

Questions Responses Total points: 40

Section 1 of 2

22103

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MSBTE theory online exam S-2020 Time:1 hour, Marks:30 Attempt any 30 questions. 1 mark each question Subject:

BASIC MATHEMATICS

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Multiple Choice Questions

Attempt the following Question:

Question

Find the value of x if $log_3[x + 6] = 2$

- () 4
- ()

Null matrix is also called as......

- zero matrix
- singular matrix
- on non singular matrix
- scalar matrix





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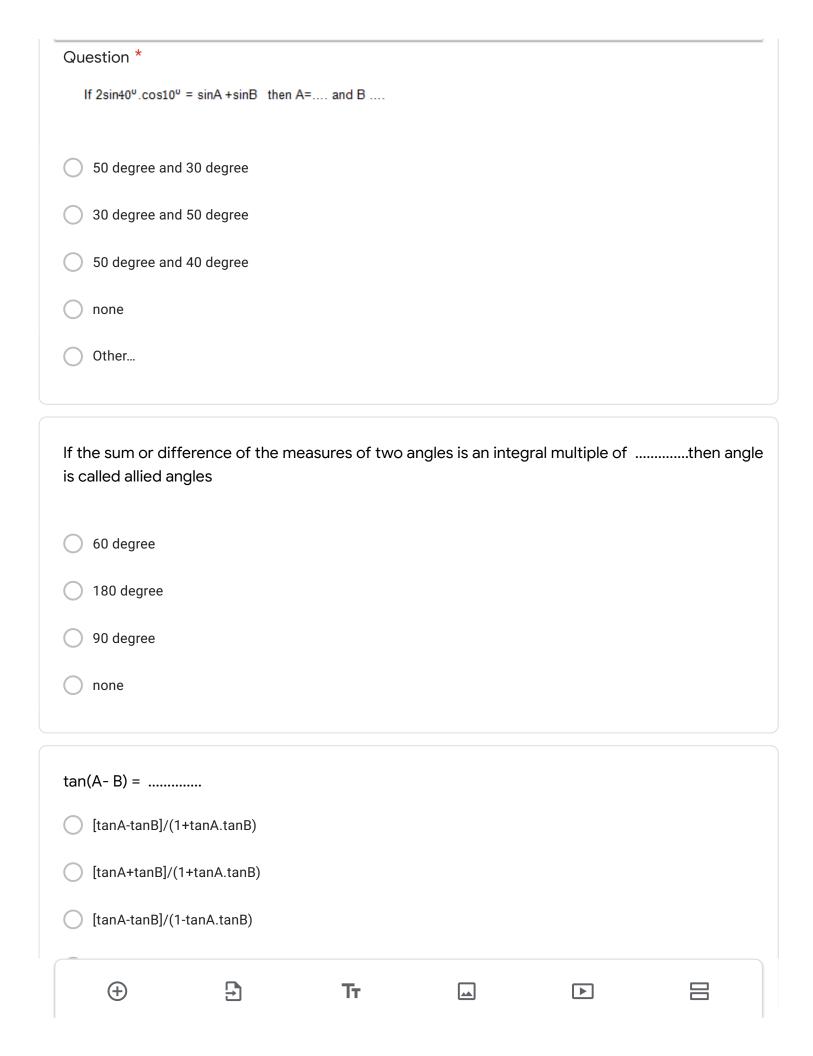


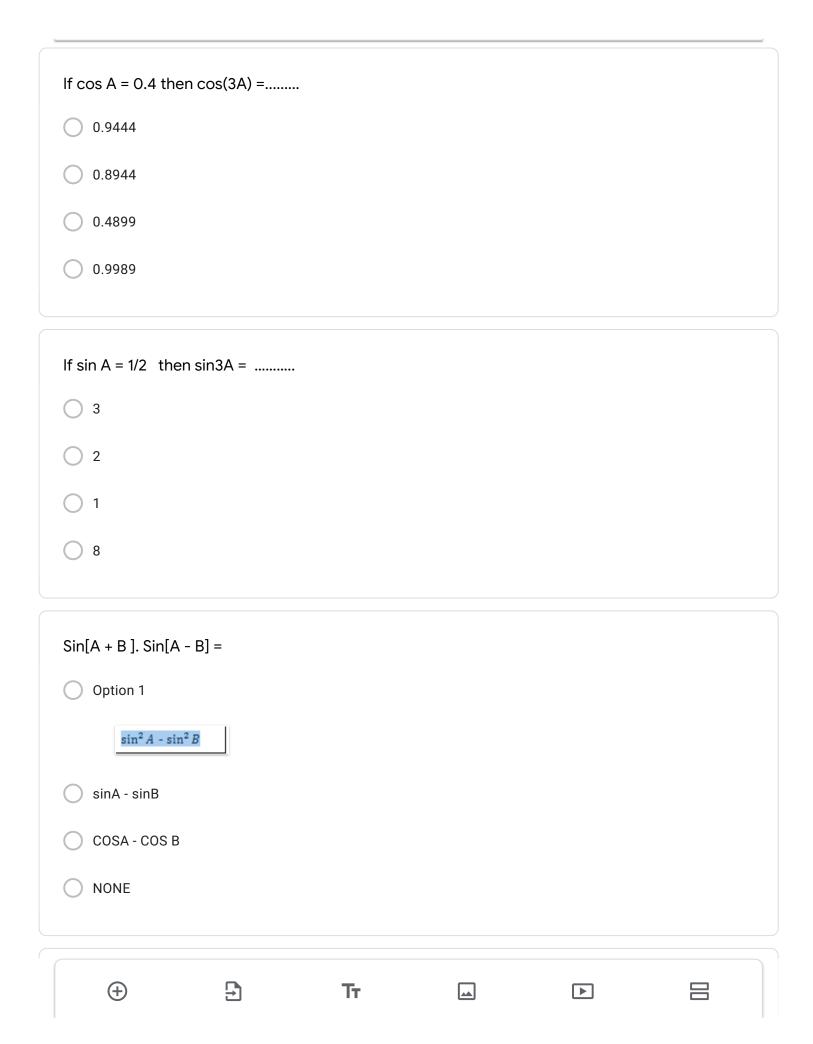


scalar matrix					
diagonal matrix					
on diagonal matrix	(
singular matrix					
Find k if the following	points are collir	near [2,3],[-1,k]	,[5,8]		
6					
3					
O 1					
-2					
The condition for squ	are matrix A to	have the invers	se is that ,it m	ust be	
scalar matrix					
singular matrix					
onon singular matrix					
zero matrix					
The transpose of the	matrix of the co	o-factors is call	ed the	of the matrix	
(+)	9	Тт		Þ	

Scalar					
diagonal					
null					
If the degree of the		less than the de	gree of the den	ominator then the	e fraction is
Called a					
fraction					
linear fraction					
improper fraction	n				
proper fraction					
An improper fracti	on can be redi	iced to proper f	raction by		
Arimproper rideti	on can be read	deed to proper t	action by		
division					
multiplication					
oproper division					
none					
If A and B are two s	square matrice	as then A Rliss	ame as which of	f the following?	
II A GIIG D GIG (WO	squai e manice	,, uicii A.D 13 5	arric as writeri Ol	The following:	
A . B					
	<u> </u>	т-			
(+)	$ \mathbf{\Xi} $	Ττ		•	

7500					
ZERO					
NONE					
For a matrix A,if A	۱ = 0, which o	f the following ar	e true?		
matrix "A" is no	n singular				
Inverse of matri	ix "A "does not e	xist			
matrix "A" is nul	l matrix				
none					
Find the equation	of the line pas	ssing through poi	nt (1,7) and	having slope 2 u	nits
2x-3y+5 =0					
2x-y-5 =0					
2x+y+5 =0					
2x-y+5 =0					
Find p if the lines	3x+ 4py+8=0 a	and 3py-9x+10=0	are perpendicu	ılar to each other	
3/2					
-3/2					





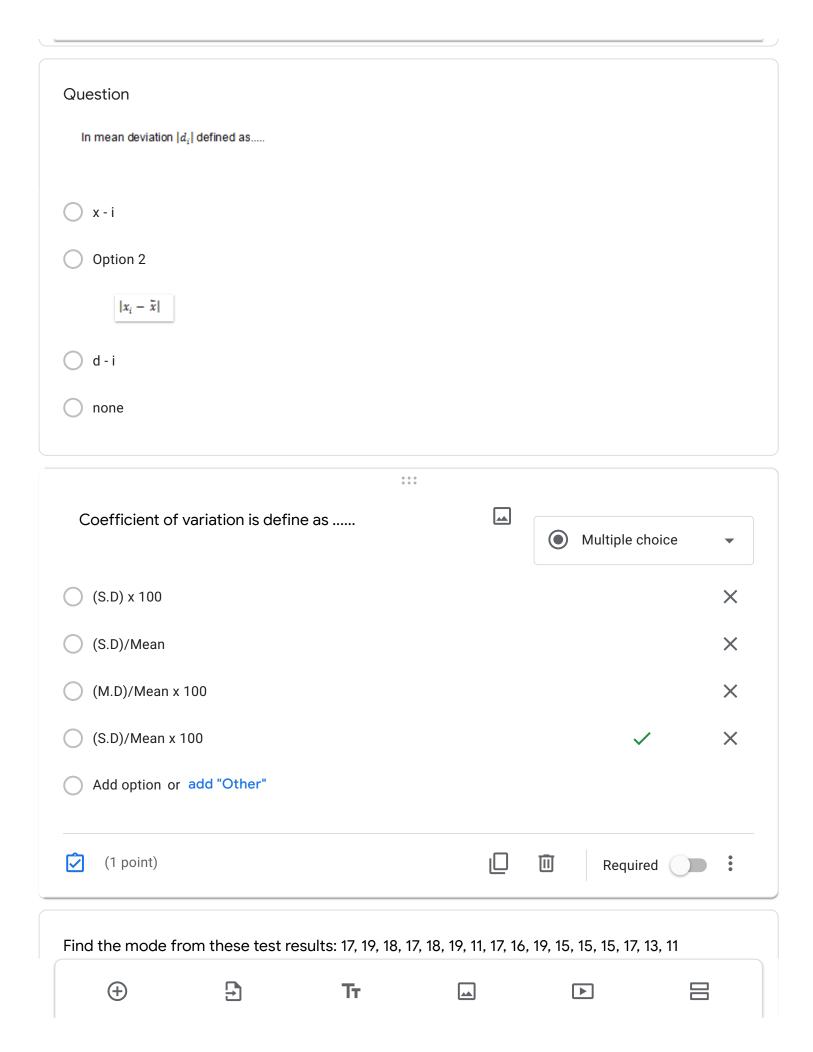
Find the value of $\sin[~\frac{\pi}{2}~-\sin^{-1}\{-\frac{\sqrt{3}}{2}\}]$ 1/3 1/2 3/2 1/4 Question Find the value of $\tan^{-1}(\frac{1}{2}) + \tan^{-1}(\frac{1}{3})$ Option 3 NONE Question If $tan^{-1}(1) + tan^{-1}(x) = 0$ then x = ... \oplus Ττ ightharpoons

3					
1					
Question					
Find the value	of sin[-420 ⁰]=				
-1					
<u> </u>					
0					
NONE					
SinA = 5/13 the	n cosA=				
12/13					
13/12					
<u> </u>					
O 0					
O 0					
	f triangle whose	vertices are (3.1)	(1, 3)and(2 3	3).	
	f triangle whose	vertices are (3,1),	(1, 3)and(2,3	3).	
	f triangle whose	vertices are (3,1),	(1, 3)and(2,3	3).	
Find the area o	f triangle whose	vertices are (3,1),	(1, 3)and(2,3	3).	

12unit					
12umt					
Find the volume o	of the sphere w	hose surface are	ea is 616 sq. m.		
1437.37 cu. m					
1237.37 cu.m					
1200 cu m					
none					
Find the length of	the longest po	ole that can be p	aced in a room	12 m long 9 m bro	oad and 8 m high
15m					
16m					
17 m					
18m					
Find the surface a	area of a cuboid	d of dimensions	26 cms ; 20 cms	s and 12 cms.	
144 sq.cm					
2144 sq.cm					
(+)	<u></u>	Тт		•	

none					
Find the capaci	ty of a cylindrica	l water tank who	se radius is 2.1m	and length is 5n	n.
88.6 cu.m					
77 cu. m					
69.3 cu. m					
100 cu.m					
A square grassy inside. Find the	y plot is of side 10 area of path.	00 metre .lt has a	gravel path 10 i	meters wide all r	ound it on the
3600 sq m					
1200 sq.m					
1000 sq.m					
4000 sq.m.					
Other					
Find range and	coefficient of ra	nge for the data	:3, 7, 11, 2, 16, 17,	22, 20, 19	
Range =40 C	.R=0.80				
Range =20 C	.R=0.833				
(+)	₽	Тт		▶	

Range =30 C	.R=0.833				
If mean is 82 an	nd standard devia	ation is 7, find the	coefficient of va	ariance	
8.537					
9.53					
10.4					
7.54					
If coefficient of	variation of a di	stribution is 60ar	nd standard devia	ation is 20, find	its mean
O 40					
40					
38.33					
33.33					
44.4					
Calculate mean	of the following	data 1, 1.2, 1.3, 1.5	5, 1.8 ,2, 2.1 ,2.2 ,2	.3, 3	
1.50					
1.66					
1.74					
(+)	Ð	Тт		P	=



17					
<u> </u>					
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<u> </u>					
More consistency	means				
more coefficier	nt of variance				
less coefficient	t of variance				
equal coefficie	nt of variance				
none					
Other					
			_	_	
(+)	\Box	Ττ		▶	8