

000000EXCELL FILE TEMPLATE
for
2019/1 TMA UPLOAD

SN	CRSCODE
1	MTH251
2	MTH251
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consisting of N particles moving freely in a space requires ____ co-ordinates to specify its position. Given a particle moving freely in a plane has ____ number of degrees of freedom.
A particle connected by a rigid rod moving freely in a plane has ____ degrees of freedom.
The centre of mass of the system of particles is defined as that point C having position vector ____.
The kinetic energy of a system of particles can be formed by multiplying the total mass M of the system by velocity of the centre of mass.
If no external force acting on a system of particles is _____, then the total momentum remains _____.
If both external and internal forces for a system of particles are conservative, then the principle of _____ or conservation of _____ momentum of a system of particles about the centre of mass is zero.
A system of particles will be _____ equilibrium if the potential V is a minimum.
____ basic notations for analysing motion.

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OPTION A	OPTION B	OPTION C	OPTION D	ANS	TMANO
3N	4N	5N	6N	A	TMA3
3	12	21	6	B	TMA3
3	12	21	6	A	TMA3
centroid	centre of gr	total mome	centre of ma	A	TMA3
centroid	centre of gr	total mome	centre of ma	C	TMA3
$\sqrt{0}$	1	2	3	A	TMA3
angular mo	moment	external tor	conservatio	D	TMA3
linear	total impuls	linear impul	angular imp	A	TMA3
virtual work	zero	stable	unstable	C	TMA3
$\sqrt{0}$	1	2	3	D	TMA3

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