

https://shikshamentor.com/engineeringmechanics-for-msbte-k-scheme/

312312 - Engineering Mechanics (Sem II) As per MSBTE's K Scheme ME / AE / NK / PG

Unit II Analysis of Forces		Marks - 18	
S. N.	MSBTE Board Asked Questions	Exam Year	Marks
1.	State S.I. unit of force and momentum.	W-23	2M
2.	Define funicular polygon.	W-23	2M
3.	State any two properties and effect of force.	W-23	4M
4.	Find magnitude and direction of resultant force, If 30 N, 40N,50 N and 60 N, forces are acting the line joining the center ofsquare to its vertices as shown in Fig.	W-23	4M
5.	State any four properties of couple.	W-23	4M
6.	Find analytically the resultant of coplanar concurrent force system as shown in Fig. Also locate its position on figure.	W-23	4 M
7.	Locate the resultant with magnitude and direction for the forcesystem shown in Fig.w.r.t. pt. A.	W-23	6M





	Two forces 40 N and 30 N are acting at and away from the point		
26.	and making an angle of 350 with each other. Calculate magnitude	W-22	4M
	and direction of their resultant		
	Calculate magnitude, direction and position of the resultant w.r.t.		
	'A' of the forces shown in Fig.		
27.	2 m 60 N 45° 14.14 cos455 20 N 4.14 cos455 20	W-22	6M
28.	Define Statics and Dynamics.	S-19	2M
29.	State law of parallelogram of forces.	S-19	2M
30.	Define force and state its S.I unit.	S-19	2M
31.	Write classification of force system and explain any one in detail.	S-19	4M
	Calculate the magnitude and direction of resultant for concurrent		
	force system as shown in Fig.		
32.	100N - 50N	S-19	4M
33.	State triangle law of forces with sketch and state it's use.	S-19	4M
	Calculate moment of all forces about point 'A' for the force system		
34.	as shown in Fig. 15 kN $10 kN30 kN30 kN30 kN30 kN30 kN$	S-19	4M
	Find the resultant in magnitude and locate it on the sketch with		
35.	respect to point 'A' for the force system shown in Fig. 1000N $1800N$ $2400NA 1m 2m 2m 1m 1m1m$ $2m$ $2m$ $1m$ $1m1500N$ $2000N$ $2700N$	S-19	6М
36.	Define Scalar and Vector quantity	W-19	2M
37.	State Law of polygon of forces	W-19	2M
38.	Define force system. Explain three force systems with sketches.	W-19	4M
39.	Calculate the magnitude and direction of resultant for the concurrent force system as shown in figure Show it on the sketch.	W-19	4M





Thank You

https://shikshamentor.com/engineering-mechanics-formsbte-k-scheme/

Visit

https://shikshamentor.com/

