

Test Jot Series

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Student Name:			Class:	9th
Paper Type:	Chapter#4		Subject:	Physics (SNC)
Paper Time:	1 Hour		Maximum Marks:	30

Q1. Choose the correct option.

(6X1=6)

1. Forces acting in same direction are added to get:

(A) Resultant force	(B) Net force	(C) Total force	(D) All of these
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2. Forces acting in opposite directions are to get resultant force:

(A) Added	(B) Subtracted	(C) Multiplied	(D) Divided
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3. Resultant force is when forces act at an angle?

(A) Maximum	(B) Minimum	(C) Vector sum	(D) Scalar sum
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4. Forces can be added using:

(A) Triangle law	(B) Parallelogram law	(C) Polygon law	(D) All of these
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5. Resultant force is maximum when forces act at:

(A) 0°	(B) 90°	(C) 180°	(D) 360°
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6. Turning effect of force is called:

(A) Torque	(B) Momentum	(C) Velocity	(D) Force
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Q2. Write down short answers of following questions.

(7X2=14)

[i] What effect of like parallel force on an object?	[ii] What is the effect of unlike parallel force on an object?
[iii] What happens when two equal unlike parallel forces act on an object?	[iv] When forces act at an angle, how are they added?
[v] What happens when the net force on an object is zero?	[vi] How can we improve the stability of a system?
	[vii] What is the purpose of ships' anchors?

Q3. Write detailed answers of the following questions. (Answer any 2)

(2X5=10)

1. Describe the conditions under which unlike parallel forces balance each other. Explain the concept of equilibrium in this context. Give an example to illustrate your answer.
2. One girl of 30kg mass sits 1.6m from the axis of a see-saw. Another girl of mass 40kg wants to sit on the other side, so that the see-saw may remain in equilibrium. How far away from the axis, the other girl may sit? (Numerical Problem)
3. What is equilibrium. Into how many types it is divided. Explain with example.