

Test Jot Series

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Student Name:			Class:	9th
Paper Type:	Chapter#6		Subject:	Physics (SNC)
Paper Time:	1 Hour		Maximum Marks:	30

Q1. Choose the correct option. (6X1=6)

1. A wire is stretched by a weight w . If the diameter of the wire is reduced to half of its previous value, the extension will become:

(A) One half	(B) Double	(C) One Fourth	(D) Four times
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2. What is the unit of spring constant k ?

(A) N/m	(B) Kg/m	(C) M/n	(D) Ms/m
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3. What is the spring constant of a spring that requires a force of 20N to extends by 0.1m?

(A) 200 N/m	(B) 100 N/m	(C) 50 N/m	(D) 20 N/m
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4. What is the unit of density?

(A) kg/m^3	(B) gkm^3	(C) kg/l	(D) All of above
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5. What happens to the density of a substance when it's volume decreases?

(A) Density decreases	(B) Density increases	(C) Density remain same	(D) Density becomes zero
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6. What is the pressure exerted by a force of 10N on an area of 2m^2 ?

(A) 5Pa	(B) 10Pa	(C) 20Pa	(D) 50Pa
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Q2. Write down short answers of following questions. (7X2=14)

[i] State what do yo mean by elasticity of a solid.	[ii] What is the deformation of solids?
[iii] What is Hooke's law?	[iv] What is density? Write its unit.
[v] How will you measure the volume if the object is lighter than the liquid?	[vi] How does temperature effect pressure in liquids?
[vii] Write an example which applied pascal's law?	

Q3. Write detailed answers of the following questions.(Answer any 2) (2X5=10)

1. Briefly explain the following deforming force, elasticity, elastic limit.
2. A force of 20N is applied to a spring, causing it to extend by 0.2m. Calculate the spring constant of the spring if the force increased to 30N, what is the new extension of the spring?
3. A liquid of density $100/\text{kgm}^3$ is filled in a tank to a height of 5m. Calculate the pressure exerted by the liquid at t he bottom of the tank.