Book For Central Reserve Police Force



CRPF SI Physics Sample Paper



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(1)) Sip	ohon	will	fail	to	work	if
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- [A] the densities of the liquid in the two vessels are equal
- [B] the level of the liquid in the two vessels are at the same height
- [C] both its limbs are of unequal length
- [D] the temperature of the liquids in the two vessels are the same

Answer: [B]

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- (2) Light year is a unit of
- [A] time
- [B] distance
- [C] light
- [D] intensity of light

Answer: [B]

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- (3) Out of the following pairs, choose the pair in which the physical quantities do not have identical dimension?
- [A] Pressure and Young's modules
- [B] Planck's constant and Angular momentum
- [C] Impulse and moment of force
- [D] Force and rate of change of linear momentum

Answer: [C]

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- (4) Let a thin capillary tube be replaced with another tube of insufficient length then, we find water
- [A] will overflow
- [B] will not rise
- [C] depressed
- [D] change its meniscus

Answer: [B]

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- (5) Magnetism at the centre of a bar magnet is
- [A] minimum
- [B] maximum

[C]	
[C] zero	
[D] minimum or maxir	num
Answer : [C]	
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(6) Of the following p	roperties of a wave, the one that is independent of the other is its
[A] amplitude	
[B] velocity	
[C] wavelength	
[D] frequency	
Answer : [A]	
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(7) RADAR is used fo	or .
[A] locating submerged	d submarines
[B] receiving a signals	in a radio receiver
[C] locating geostation	ary satellites
[D] detecting and locat	ring the position of objects such as aeroplanes
Answer : [D]	
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(8) It takes much long	ger to cook food in the hills than in the plains, because
[A] in the hills the atmocooking time	ospheric pressure is lower than that in the plains and therefore water boils at a temperature lower than 100°C causing an increase in
[B] due to low atmosph	heric pressure on the hills, the water boils at a temperature higher than 100°C and therefore water takes longer to boil
[C] in the hills the atmo	ospheric density is low and therefore a lot of heat is lost to the atmosphere
[D] in the hills the hum	nidity is high and therefore a lot of heat is absorbed by the atmosphere leaving very little heat for cooking
Answer : [A]	
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(9) One thousand mic	erons is equal to
[A] 10 ⁻³ m	
[B] 10 ⁻⁶ m	
[C] 10 ⁻⁹ m	
[D] 10 ⁻¹² m	
Answer: [A]	
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[A] the pressure is the same as that outside
[B] normal atmospheric pressure is maintained by the use of air pumps
[C] the pressure inside is less than the pressure outside
[D] normal humidity and partial vacuum are maintained
Answer: [B]
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(11) Intensity of sound at a point is its distance from the source.
[A] directly proportional to
[B] inversely proportional to
[C] directly proportional to square of
[D] inversely proportional to square of
Answer: [D]
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(12) Out of the following pairs, which one does not have identical dimension?
[A] Moment of inertia and moment of a force
[B] Work and Torque
[C] Angular momentum and Planck's constant
[D] Impulse and Momentum
Answer: [A]
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(13) Radio telescopes are better than optical telescopes because
[A] they can detect faint galaxies which no optical telescope can
[B] they can work even in cloudy conditions
[C] they can work during the day and night
[D] All of the above
Answer: [D]
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(14) Supersonic plane fly with the speed
[A] less than the speed of sound
[B] of sound
[C] greater than the speed of sound
[D] of light
Answer: [C]
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(15) ML ² T ⁻² is the dimensional formula for
[A] moment of inertia
[B] pressure
[C] elasticity
[D] couple acting on a body
Answer: [D]
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(16) Sir C.V. Raman was awarded Nobel Prize for his work connected with which of the following phenomenon of radiation?
[A] Scattering
[B] Diffraction
[C] Interference
[D] Polarization
Answer: [A]
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(17) In which of the following industries is mica as a raw material?
[A] Cement
[B] Glass and Pottery
[C] Iron and Steel
[D] Electrical
Answer: [D]
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(18) One should not connect a number of electrical appliances to the same power socket because
[A] this can damage the appliances due to overloading
[B] this can damage the domestic wiring due to overloading
[C] this can damage the electrical meter
[D] the appliance will not get full voltage
Answer: [B]
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(19) Large astronomical telescopes always use as objective
[A] lens
[B] mirror
[C] combinations of lenses
[D] None of the above
Answer: [C]

(20) Mica is used in electrical appliances such as electric iron because mica is

- [A] a good conductor of heat but a bad conductor of electricity
- [B] a bad conductor of heat but a good conductor of electricity
- [C] a good conductor of heat as well as electricity
- [D] a bad conductor of heat as well as electricity

Answer: [A]

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