

Shagaf

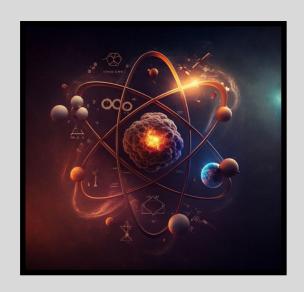
Physics Final

Done By:

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Designed By:

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1.)Which of the following is a unit of force?
A.Gram.
B.Kg. C.Pound.
D.Slug.
Answer"C.Pound"
2.)A nucleus is denoted by ⁵ X ¹² ,How many Protons?
A.12
B.5
C.7
D.17
Answer"B.5"
3.) The radius of water pipe decrease from 0.2 m to 0.1 m.
If the average velocity in wider portion is 5m/s,
find the average velocity in the narrower portion
A.24m/s.
B.12m/s.
C.16m/s.
D.20m/s.
Answer"D.20m/s"
4.)A child throws a ball so that it rises 5m while travelling 7m

4.)A child throws a ball so that it rises 5m while travelling 7m horizontally in 2s and then begins to drop. What is the magnitude of the initial velocity?

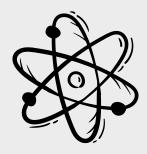
A.13.94 m/s.

B.11.06 m/s.

C.10.5 m/s.

D.12.98 m/s.

Answer"C.10.5 m/s"



5.)If A=8X+Y & B=4X+Y !What is the magnitude A.12.85.	e of the resultant?
B.14.40.	
C.16.19.	
D.12.16.	
	Answer"D.12.16"
6.)A parachutist of weight w strikes the groun	nd and moved up with a=5g ,
find the force exerted by the ground on him	
A.6w.	
B.7w.	
C.4w.	
D.5w.	
	Answer"A.6w"
7.) The average flow rate of blood in the aorta	is 6.2×10-6 m³/s
and it has a radius of 1.3×10-2m, the viscosity	
(2.084×10-3 pa.s), The average blood velocity	is?
A.13.6×10-3.	
B.7.9×10- ³ .	
C.9.8×10-3.	
D.11.7×10- ³ .	
	A
	Answer"D.11.7×10-3"
8.)From the information of problem 7 , What i	is the flow resistance per 3m
long?	
A.5.58×10⁵.	
B.7.44×10 ⁵ .	
C.1.86×10⁵.	
D.3.72×10⁵.	
Answer"A.5.58×10)511

9.) A man of 83 kg climbes a hill of height 7 m in 4 minutes, What is the power delivered by him?

A. 4233.6.

B. 43200

C. 1162

D. 1423.5

Answer"D. 1423.5"

10.) A concave lens of a focal length 20 cm, If an object is placed at a distance of 50 cm from the lens. Find the distance of image.

A.(-12) cm.

B.33.3 cm.

C.(-14.3) cm.

D.15 cm.

Answer"C.(-14.3) cm"

11.) A certain pressure can rise a column of pure water 0.7 m high, the same pressure will support a column of certain solution 0.3 m high, What is the density of the solution?

A.1167.

B.1750.

C.2333.

D.3500.

Answer"C.2333"

12.) A wire of nichrome has r= 1mm, L= 2m, ρ = 1.09 ×10-6 Ω .m; find the potential difference (V) between the two ends when the current passing through it is 3A:

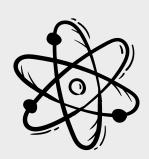
A.2.76 V.

B.0.69 V.

C.1.38 V.

D.2.07 V.

Answer"D. 2.07 V"



13.) A square hole of 16 cm long each side is cut into sheet of copper If it is heated from 50 F° to 140 F°, the calculated ΔA is:

A.0.435 cm².

B.0.280 cm².

C.0.109 cm².

D.0.245 cm².

Answer"B.0.280 cm2"

14.) A particle start moving from origin at t=0 with v=24x-12y and move (x-y) accesses with constant acceleration given by a= 3x-6y . Find the speed at t=2

A.35.4.

B.38.4.

C.32.5.

D.41.6.

Answer"B.38.4"

15.) Mercury will drop a distance of 13×10-3m in a narrow tube, if the coefficient of the surface tension for mercury is=0.486 N/m, density=13600kg/m³ & the contact angle is 140°, What is the radius of the tube?

A.1.3×10-2.

B.-4.29×10-4.

C.1.3×10-3.

D.4.29×10-4.

Answer"D.4.29×10-4"

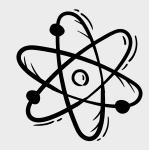
16.) The resistance of a piece of aluminium is measured to be 2.8×10- 3 Ω, What is the resistance of a piece of glass with same dimension? (ρ)aluminium = 2.8×10- 8 Ω.m (ρ)glass = 10 10 Ω.m

A.2.79×10-15 Ω.

B.2.8×10¹⁵ Ω.

C.2.8×10-1 Ω.

 $D.10^{15} \Omega.$



17.) Which of the following radiation has negative charge? A.α particles.
B.y rays.
C.β particles.
D.X rays.
Answer"C.β particles"
18.)What is the pressure difference between the heart and the brain if the
brain is 0.7m above heart?
A.1.38×10⁴.
B.1.54×10⁴.
C.7.42×10 ³ .
D.5.30×10 ³ .
Answer"C.7.42×10³"
19.) Given a charge of a particle to be Q= 2t²—3t ,find the current at t=6
A. 5A. B. 13A.
C. 29A.
D. 21A.
Answer"D. 21A"