NEWFOUNDLAND AND LABRADOR PHYSICS 2204 · FINAL EXAM

Final Exam — Practice Test

Newfoundland and Labrador Physics 2204 • 50 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **An object moves at 8 m per second for 7 s. The distance travelled, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A net force of 40 N acts on a 8 kg mass. Its acceleration, in metres per second squared, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A 2 kg object moves at 10 m per second. Its kinetic energy, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A wave has frequency 10 Hz. Its period, in seconds, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **An object starts from rest and accelerates at 4 m per second squared for 3 s. Its displacement, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **Consider the meaning of the term. Newton third law states that forces always occur in**

A equal and opposite pairs

B the same direction

C one direction only

D pairs of different sizes

Understand It with Pulse | Flag a mistake

7 **Review the key idea. In a closed system with no external forces, total momentum is**

- A doubled
- B conserved
- C halved
- D zero always

Understand It with Pulse | Flag a mistake

8 **Review the key idea. The wavelength of a wave is**

- A its maximum displacement
- B the distance between two adjacent crests
- C the time for one wave
- D its frequency

Understand It with Pulse | Flag a mistake

9 **Start from the definition. On a displacement time graph, the slope gives**

- A acceleration
- B distance only
- C time
- D velocity

Understand It with Pulse | Flag a mistake

10 **A 20 kg block rests on a slope at 30°. The component of weight parallel to the slope, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A 2 kg object changes speed by 5 m per second. The change in momentum, in kilogram metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A wave has period 0.25 s. Its frequency, in hertz, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **A trip covers 80 km in 4 h. The average speed, in kilometres per hour, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Think about the rule. An astronaut mass on the Moon compared with on Earth is**

A smaller

B larger

C the same

D zero

Understand It with Pulse | Flag a mistake

15 **A 1 kg object falls 20 m . Ignoring air resistance , the kinetic energy gained , in joules , using g = 9.8 , is**

ANSWER

Understand It with Pulse | Flag a mistake

16 **Recall the rule. As a sound source approaches an observer, the observed pitch generally**

A decreases

B stays the same

C becomes zero

D increases

Understand It with Pulse | Flag a mistake

17 **Apply the idea. On a displacement time graph, the slope gives**

A acceleration

B distance only

C velocity

D time

Understand It with Pulse | Flag a mistake

18 **Apply the definition carefully. Newton first law states that an object at rest stays at rest unless acted on by**

A gravity only

B friction only

C a balanced force

D an unbalanced force

Understand It with Pulse | Flag a mistake

19 **A 8 kg object moves at 3 m per second. Its kinetic energy, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A wave has frequency 20 Hz. Its period, in seconds, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **An object accelerates from rest to 20 m per second in 4 s. Its acceleration, in metres per second squared, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A 10 kg mass has weight , using g = 9.8 m per second squared , in newtons , of**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **Work of 150 J is done in 5 s. The power, in watts, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **Consider the concept in general. The amplitude of a wave is**

A the distance between crests

B the number of waves per second

C its maximum displacement from equilibrium

D its speed

Understand It with Pulse | Flag a mistake

25 **An object dropped from rest falls for 2 s . Using g = 9.8 m per second squared , its speed , in metres per second , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **Two horizontal forces of 50 N and 20 N act in opposite directions. The net force, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 **A force of 20 N acts for 2 s. The impulse, in newton seconds, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **Recall the principle. Refraction is**

A the bouncing of a wave off a surface

B the bending of a wave at a boundary between media

C the spreading of a wave through a gap

D the overlapping of two waves

Understand It with Pulse | Flag a mistake

29 **Consider the principle in general. An object moves 3 m east and then 4 m north. Its resultant displacement, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **Consider the principle in general. If the net force on an object is zero, its acceleration is**

A increasing

B equal to gravity

C undefined

D zero

Understand It with Pulse | Flag a mistake

31 **Think about the idea. In a closed system with no external forces, total momentum is**

A conserved

B doubled

C halved

D zero always

Understand It with Pulse | Flag a mistake

32 **Think about the idea. The wavelength of a wave is**

A the distance between two adjacent crests

B its maximum displacement

C the time for one wave

D its frequency

Understand It with Pulse | Flag a mistake

33 **An object dropped from rest falls for 3 s . Using g = 9.8 m per second squared , its speed , in metres per second , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **Two horizontal forces of 80 N and 30 N act in opposite directions. The net force, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **A 3 kg object changes speed by 6 m per second. The change in momentum, in kilogram metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **A wave has period 0.10 s. Its frequency, in hertz, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **Review the idea. An object moves 3 m east and then 4 m north. Its resultant displacement, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **Review the idea. If the net force on an object is zero, its acceleration is**

A zero

B increasing

C equal to gravity

D undefined

Understand It with Pulse | Flag a mistake

39 **A 3 kg object falls 10 m . Ignoring air resistance , the kinetic energy gained , in joules , using g = 9.8 , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **Recall the property. As a sound source approaches an observer, the observed pitch generally**

A decreases

B stays the same

C increases

D becomes zero

Understand It with Pulse | Flag a mistake

41 **A car slows from 24 m per second to rest in 8 s. The magnitude of its acceleration, in metres per second squared, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **A 70 kg person stands in an elevator accelerating upward at 1 m per second squared . The normal force , in newtons , using g = 9.8 , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **A 5 kg object moves at 4 m per second. Its kinetic energy, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **A wave has frequency 4 Hz. Its period, in seconds, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **An object moves at 20 m per second for 3 s. The distance travelled, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **A net force of 24 N acts on a 4 kg mass. Its acceleration, in metres per second squared, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **Work of 300 J is done in 6 s. The power, in watts, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **Consider the statement in general. The amplitude of a wave is**

A the distance between crests

B its maximum displacement from equilibrium

C the number of waves per second

D its speed

Understand It with Pulse | Flag a mistake

49 **An object starts from rest and accelerates at 2 m per second squared for 5 s. Its displacement, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **Consider the statement in general. Newton third law states that forces always occur in**

A the same direction

B equal and opposite pairs

C one direction only

D pairs of different sizes

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	56	**18.**	D	**35.**	18
2.	5	**19.**	36	**36.**	10
3.	100	**20.**	0.05	**37.**	5
4.	0.10	**21.**	5	**38.**	A
5.	18	**22.**	98	**39.**	294
6.	A	**23.**	30	**40.**	C
7.	B	**24.**	C	**41.**	3
8.	B	**25.**	19.6	**42.**	756
9.	D	**26.**	30	**43.**	40
10.	98	**27.**	40	**44.**	0.25
11.	10	**28.**	B	**45.**	60
12.	4	**29.**	5	**46.**	6
13.	20	**30.**	D	**47.**	50
14.	C	**31.**	A	**48.**	B
15.	196	**32.**	A	**49.**	25
16.	D	**33.**	29.4	**50.**	B
17.	C	**34.**	50		

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