DELAWARE PHYSICS · FINAL EXAM · 50 QUESTIONS

Final Exam — Practice Test

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 **A mass of 5 kilograms accelerates at 4 meters per second squared. The net force in newtons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A force of 50 newtons pushes an object 5 meters. The work done in joules is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Which term is defined as follows: the flow of electric charge?**

A. electric current

B. voltage

C. resistance

D. series circuit

Understand It with Pulse | Flag a mistake

4 **Which of the following is an example of photon?**

A light knocking electrons from a surface

B a single packet of light

C electrons diffracting like waves

D one photon of light

Understand It with Pulse | Flag a mistake

5 **An object speeds up from rest to 20 meters per second in 5 seconds. Its acceleration in meters per second squared is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The kinetic energy in joules of a 4 kilogram mass moving at 4 meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **Which statement best describes voltage?**

A current is measured in amperes

B resistance is measured in ohms

C in a series circuit the same current flows everywhere

D voltage is measured in volts

Understand It with Pulse | Flag a mistake

8 **Which statement best describes photoelectric effect?**

A photons carry energy proportional to frequency

B duality means behavior depends on the experiment

C quantum theory describes energy in discrete amounts

D the photoelectric effect supports the photon model

Understand It with Pulse | Flag a mistake

9 **An object travels 20 meters in 5 seconds. Its average speed in meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Work of 400 joules is done in 4 seconds. The power in watts is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **Which statement best describes resistance?**

A resistance is measured in ohms

B current is measured in amperes

C voltage is measured in volts

D in a series circuit the same current flows everywhere

Understand It with Pulse | Flag a mistake

12 **Which statement best describes wave particle duality?**

A duality means behavior depends on the experiment

B photons carry energy proportional to frequency

C the photoelectric effect supports the photon model

D quantum theory describes energy in discrete amounts

Understand It with Pulse | Flag a mistake

13 **Using g = 10 meters per second squared , the weight in newtons of a 10 kilogram mass is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Using g = 10 meters per second squared , the gravitational potential energy in joules of a 10 kilogram mass at a height of 5 meters is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **Which of the following is an example of series circuit?**

A bulbs in a single loop

B electrons moving through a wire

C a battery pushing charge around a circuit

D a thin wire resisting current

Understand It with Pulse | Flag a mistake

16 **Which statement best describes quantum?**

A photons carry energy proportional to frequency

B quantum theory describes energy in discrete amounts

C the photoelectric effect supports the photon model

D duality means behavior depends on the experiment

Understand It with Pulse | Flag a mistake

17 **An object travels 40 meters in 10 seconds. Its average speed in meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **The momentum in kilogram meters per second of a 5 kilogram mass moving at 4 meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **Which term is defined as follows: a circuit with more than one path for current?**

A parallel circuit

B electric current

C voltage

D resistance

Understand It with Pulse | Flag a mistake

20 **Which term is defined as follows: light nuclei joining into a heavier nucleus?**

A photon

B nuclear fusion

C photoelectric effect

D wave particle duality

Understand It with Pulse | Flag a mistake

21 **An object travels 40 meters in 5 seconds. Its average speed in meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A force of 25 newtons pushes an object 4 meters. The work done in joules is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **Which term is defined as follows: a wave of oscillating electric and magnetic fields?**

A electric current

B voltage

C electromagnetic wave

D resistance

Understand It with Pulse | Flag a mistake

24 **Which term is defined as follows: the time for half of a radioactive sample to decay?**

A photon

B photoelectric effect

C half life

D wave particle duality

Understand It with Pulse | Flag a mistake

25 **An object travels 120 meters in 10 seconds. Its average speed in meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **The momentum in kilogram meters per second of a 3 kilogram mass moving at 3 meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 **Which term is defined as follows: the number of waves passing a point per second?**

A electric current

B voltage

C resistance

D frequency

Understand It with Pulse | Flag a mistake

28 **Which term is defined as follows: spontaneous decay of unstable nuclei?**

A photon

B photoelectric effect

C wave particle duality

D radioactivity

Understand It with Pulse | Flag a mistake

29 **An object travels 40 meters in 4 seconds. Its average speed in meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **The momentum in kilogram meters per second of a 5 kilogram mass moving at 3 meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **Which of the following is an example of wavelength?**

- A electrons moving through a wire
- B crest to crest distance
- C a battery pushing charge around a circuit
- D a thin wire resisting current

Understand It with Pulse | Flag a mistake

32 **Which of the following is an example of relativity?**

- A a single packet of light
- B time passing slower for a fast traveler
- C light knocking electrons from a surface
- D electrons diffracting like waves

Understand It with Pulse | Flag a mistake

33 **An object travels 120 meters in 4 seconds. Its average speed in meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **A force of 10 newtons pushes an object 10 meters. The work done in joules is**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **Which of the following is an example of amplitude?**

A electrons moving through a wire

B a battery pushing charge around a circuit

C the height of a wave crest

D a thin wire resisting current

Understand It with Pulse | Flag a mistake

36 **Which of the following is an example of electromagnetic spectrum?**

- A a single packet of light
- B light knocking electrons from a surface
- C radio waves through gamma rays
- D electrons diffracting like waves

Understand It with Pulse | Flag a mistake

37 **An object travels 120 meters in 2 seconds. Its average speed in meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **The momentum in kilogram meters per second of a 3 kilogram mass moving at 10 meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **Which of the following is an example of reflection?**

A electrons moving through a wire

B a battery pushing charge around a circuit

C a thin wire resisting current

D an echo from a wall

Understand It with Pulse | Flag a mistake

40 **Which of the following is an example of laser?**

A a single packet of light

B light knocking electrons from a surface

C electrons diffracting like waves

D a beam used in a barcode reader

Understand It with Pulse | Flag a mistake

41 **An object travels 100 meters in 10 seconds. Its average speed in meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **Work of 200 joules is done in 5 seconds. The power in watts is**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **Which statement best describes refraction?**

A current is measured in amperes

B refraction changes wave speed and direction

C voltage is measured in volts

D resistance is measured in ohms

Understand It with Pulse | Flag a mistake

44 **Which statement best describes semiconductor?**

A photons carry energy proportional to frequency

B semiconductors are the basis of modern electronics

C the photoelectric effect supports the photon model

D duality means behavior depends on the experiment

Understand It with Pulse | Flag a mistake

45 **An object travels 100 meters in 2 seconds. Its average speed in meters per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **A force of 20 newtons pushes an object 10 meters. The work done in joules is**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **Which statement best describes diffraction?**

A current is measured in amperes

B voltage is measured in volts

C diffraction is stronger for longer wavelengths

D resistance is measured in ohms

Understand It with Pulse | Flag a mistake

48 **Which statement best describes atom model?**

A photons carry energy proportional to frequency

B the photoelectric effect supports the photon model

C models of the atom have changed with new evidence

D duality means behavior depends on the experiment

Understand It with Pulse | Flag a mistake

49 **An object travels 40 meters in 2 seconds. Its average speed in meters per second is**

ANSWER

Understand It with Pulse | Flag a mistake

50 **The kinetic energy in joules of a 2 kilogram mass moving at 3 meters per second is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	20	**18.**	20	**35.**	C
2.	250	**19.**	A	**36.**	C
3.	A	**20.**	B	**37.**	60
4.	B	**21.**	8	**38.**	30
5.	4	**22.**	100	**39.**	D
6.	32	**23.**	C	**40.**	D
7.	D	**24.**	C	**41.**	10
8.	D	**25.**	12	**42.**	40
9.	4	**26.**	9	**43.**	B
10.	100	**27.**	D	**44.**	B
11.	A	**28.**	D	**45.**	50
12.	A	**29.**	10	**46.**	200
13.	100	**30.**	15	**47.**	C
14.	500	**31.**	B	**48.**	C
15.	A	**32.**	B	**49.**	20
16.	B	**33.**	30	**50.**	9
17.	4	**34.**	100		

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