

PHYSICS Exam Paper

Subjective Questions

1. Explain Newton's laws of motion and provide real-life examples for each.

Answer:

2. Describe the process of nuclear fission and how it differs from nuclear fusion.

Answer:

3. What is the concept of work and energy in physics? Explain with examples.

Answer:

4. Explain the law of conservation of momentum with an example.

Answer:

5. Describe the structure and properties of an atom according to the Bohr model.

Answer:

6. What is the principle of superposition of waves?

Answer:

7. Explain the phenomenon of diffraction of light with an example.

Answer:

8. Discuss the concept of entropy and its significance in thermodynamics.

Answer:

9. How does the Doppler effect apply to sound and light waves?

Answer:

10. Describe the working of an electric motor and explain the factors affecting its efficiency.

Answer:

11. who was einstien?

Answer:

MCQ Questions

12. What is the speed of light?

a) 300,000 km/s

b) 400,000 km/s

c) 500,000 km/s

d) 600,000 km/s

13. What is the force on an object with mass 10kg and acceleration 5m/s^2 ?

a) 50 N

b) 100 N

c) 150 N

d) 200 N

14. What is the formula for kinetic energy?

a) $\text{KE} = mv^2$

b) $\text{KE} = 1/2 mv^2$

c) $\text{KE} = mv$

d) $\text{KE} = m^2v^2$

15. What is the unit of electric current?

a) Volt

b) Ampere

c) Ohm

d) Coulomb

16. What is the value of gravitational acceleration on Earth?

a) 9.8 m/s^2

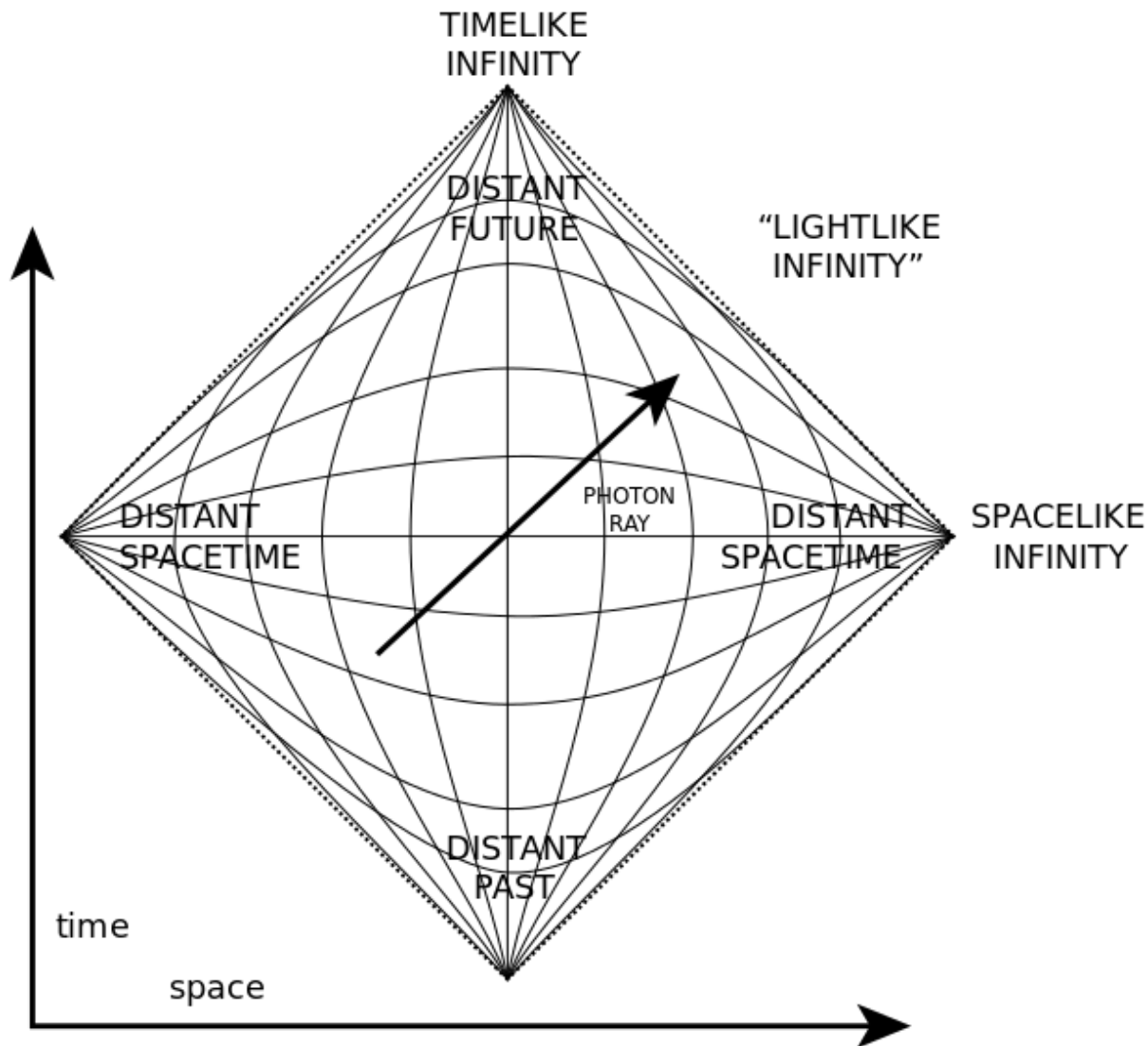
b) 10 m/s^2

c) 9.5 m/s^2

d) 9.2 m/s^2

Diagram Questions

17. Draw and label a free body diagram of an object on an inclined plane.



18. Illustrate the electric field lines around a positive and negative charge.

