



PHYSICS

BOOKS - JEEVITH PUBLICATIONS

PHYSICS (KANNADA ENGLISH)

PHYSICAL WORLD

One Marks Questions With Answers

1. What is science?



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2. What is involved in acquiring a scientific knowledge?



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3. Name any one branch of science.



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4. What is physical science?



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5. What is biological science?



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6. What is physics?



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7. Give any one difference between Classical physics and Modern physics.



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8. Name the branch of Modern physics which exclusively deals with the natural phenomena associated with subatomic particles.



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9. What is a model?



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10. Name the planet which was predicted before its discovery ?



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11. What led to the prediction of another planet in the vicinity of planet Uranus.



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12. Name the comet whose presence could be predicted by theoretical calculations well in advance.



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13. What is the frequency of reappearance of Halley's comet?



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14. When was Halley's comet last seen?



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15. When will Halley's comet reappear?



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16. Name the Indian physicist who was awarded with the Nobel prize.





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17. What is Professor Chandrashekar knows for?



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18. What is technology?



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19. Name the principles involved in the technologies.

Rocket propulsion



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20. Name the principles involved in the technologies.

SQUIDS



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21. Name the principles involved in the technologies.

Electric generators



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22. Name the principles involved in the technologies.

Refrigerators



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23. Name the scientists associated with the discoveries.

Principles of lever



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24. Name the scientists associated with the discoveries.

Photoelectric effect



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25. Name the scientists associated with the discoveries.

Theory of relativity



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26. Name the scientists associated with the discoveries.

Quantum



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27. Name the Greek equivalent term for 'physics',



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28. Can mass of a system be conserved?



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29. Name the particle that radiates the electromagnetic force between two electrons.





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30. Name the particle that radiates the β -decay governed by the nuclear force.



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31. Name the particle that radiates the strong nuclear force in $np \rightarrow pn$ conversion.



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32. Give the range of distance that can be measured.



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33. Mention the range of time scales.



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34. Mention the range of mass scales.



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Two Marks Questions With Answers

1. Mathematics is the language of physics.

Justify the statement.



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2. Mention any two contributions of physics to the society.



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3. Mention the fundamental forces of nature.



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4. Compare electrostatic force with gravitational force and strong nuclear force.



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5. Mention any one long range force and short range force.



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6. Name any two symmetries which help in unifying the forces of nature.



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7. Mention any two essential segments of scientific approval or name any two basic perceptions that has helped science to make progress.



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8. Give any two attributes which remain conserved in nature.



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9. Match the following

Scientist

1. Neils Bohr
2. Chadwick
3. Einstein
4. Micheal Faraday
5. Hubble
6. Maxwell
7. Isaac Newton
8. Sir C.V. Raman
9. Earnest Rutherford
10. Abdus salam

Discovery

- (a) Law of gravitation
- (b) Quantum model of hydrogen atom.
- (c) Unification of light and electro-magnetism
- (d) Theory of relativity
- (e) Inelastic scattering of light.
- (f) Laws of electromagnetic Induction
- (g) Expansion of universe
- (h) neutron
- (i) Nuclear model
- (j) Unification of weak and electro-magnetic interaction



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10. Match the following

Scientist	Discovery
1. Robert Boyle	(a) Thermal ionisation
2. Robert Hooke	(b) Cascade process in cosmic showers
3. Lawrence	(c) Triple helical structure of protein.
4. H. Yukawa	(d) Wave nature of electron
5. H.J. Bhabha	(e) Wave theory of light
6. M.N. Saha	(f) Principle of buoyancy and lever
7. G.N. Ramachandran	(g) Theory of strong nuclear force
8. de-Broglic	(h) Cyclotron
9. Christian Huygens	(i) Gas law at constant temperature
10. Archimedes	(j) Law of elasticity.



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11. Briefly explain the ideas discussed by the following topics in physics.

(i) Mechanics (ii) Optics (iii) Sound.



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12. Match the technology (A) and related principle (B)

Technology (A)

1. Steam engine
2. Rocket propulsion
3. Hydroelectric power
4. Particle acceleration

Principle (B)

- (a) Role of DNA in heredity
 - (b) Propagation of e.m.waves
 - (c) Fission of uranium
 - (d) Thermodynamics
-
5. Genetic engineering
 6. Aeroplane
 7. Lasers
 8. Nuclear reactor
 9. Radio, TV
 10. Electric generation

- (e) Fluid dynamics
- (f) Conversion of mechanical kinetic energy into electric energy
- (g) Newton's laws of motion.
- (h) Faraday's laws of e.m.inductance.
- (i) Motion of charged particle in e.m. field
- (j) amplification of light



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13. What are involved in the systematic study of natural phenomena?



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14. How may natural science be classified?



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15. Give any one difference between 'theory' and 'law'.



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16. Mention a few areas where the study of physics has helped in modern technology for better living.



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17. Mention the two principal thrusts in physics.



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18. Explain the term reductionism.



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19. Explain the term unification.



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20. Give any two examples for microscopic quantities related to a physical system.



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21. Mention the domains of microscopic and macroscopic phenomena.



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22. Mention any two areas of study of mechanics.



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23. Mention any two areas of study of electricity.



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24. Mention any two areas of study of electrodynamics.



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25. What is discussed in the field of thermodynamics?



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26. Explain Aristotle fallacy of motion of bodies.



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27. Why are the fundamental forces called so?

Give an example for a fundamental force.



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28. Why are the derived forces called so? Give

an example for a derived force.



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29. Give an example for the unification of forces.



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30. Give any two examples for macroscopic quantities related to a physical system.



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