<ol> <li>What is the unit of force in mechanics?</li> <li>Joule</li> <li>Watt</li> <li>Newton </li> <li>Pascal</li> </ol>
Answer: C
<ul> <li>2. Which law states that for every action, there is an equal and opposite reaction?</li> <li>A. Newton's First Law</li> <li>B. Newton's Second Law</li> <li>C. Newton's Third Law</li></ul>
Answer: C
3. What is the formula for Ohm's Law? A. P = IV B. V = IR   C. F = ma D. Q = mc∆T
Answer: B
<ul> <li>4. Which of the following is a renewable energy source?</li> <li>A. Coal</li> <li>B. Oil</li> <li>C. Solar energy</li></ul>
Answer: C
<ul> <li>5. The ability of a material to resist being deformed by force is called:</li> <li>A. Elasticity   B. Conductivity</li> <li>C. Magnetism</li> <li>D. Density</li> </ul>
Answer: A
<ul> <li>6. Which particle is responsible for electric current?</li> <li>A. Proton</li> <li>B. Neutron</li> <li>C. Electron</li></ul>
Answer: C
<ul> <li>7. What does a magnetic field surround?</li> <li>A. A moving electron</li></ul>
Answer: A

8. Which branch of physics studies motion and forces? A. Optics	
B. Mechanics    C. The arrest depositions	
C. Thermodynamics	
D. Quantum physics	
Answer: B	
9. Which is an example of a vector quantity? A. Mass	
B. Speed	
C. Velocity   ✓	
D. Temperature	
Answer: C	
10. What layer of the Earth contains most of the Earth's mass?	
A. Crust	
B. Mantle    ✓	
C. Outer Core	
D. Inner Core	
Answer: B	
11. What is the SI unit of power?	
A. Joule	
B. Watt    ✓	
C. Newton	
D. Volt	
Answer: B	
12. In magnetism, like poles:	
A. Attract	
B. Repel ♥	
C. Neutralize	
D. Overlap	
Answer: B	
Allswei. B	
13. Which type of wave requires a medium to travel?	
A. Electromagnetic wave	
B. Sound wave    ✓	
C. Light wave	
D. Gamma ray	
Answer: B	
14. What type of simple machine is a ramp?	
A. Lever	
B. Pulley	
C. Inclined plane   ✓	
D. Wheel and axle	
Answer: C	

<ul> <li>15. The study of earthquakes is called:</li> <li>A. Geology</li> <li>B. Seismology    C. Meteorology</li> <li>D. Volcanology</li> </ul>
Answer: B
<ul> <li>16. Which gas is most abundant in Earth's atmosphere?</li> <li>A. Oxygen</li> <li>B. Nitrogen   C. Carbon dioxide</li> <li>D. Argon</li> </ul>
Answer: B
<ul> <li>17. In applied mathematics, the derivative of a constant is:</li> <li>A. Zero   B. One</li> <li>C. The constant itself</li> <li>D. Undefined</li> </ul>
Answer: A
<ul> <li>18. Which of the following is an example of potential energy?</li> <li>A. A moving car</li> <li>B. Water stored in a dam </li> <li>C. Sound from a speaker</li> <li>D. Electric current in a wire</li> </ul>
Answer: B
<ul> <li>19. What happens when an object's net force is zero?</li> <li>A. It accelerates</li> <li>B. It changes direction</li> <li>C. It remains at rest or in uniform motion</li></ul>
Answer: C
20. Which of the following best shows the application of engineering thinking?  A. Solving puzzles for fun  B. Designing a bridge to carry heavy loads   C. Writing a poem  D. Memorizing dates of history
Answer: B