

## Simple Harmonic Motion and Waves

| Sr | Questions   | Answers Choice  |
|----|---|---|
| 1  | If the length of a simple pendulum is halved its time period will become:                                     | A. $T/2$<br>B. $T = T/\sqrt{2}$<br>C. $\sqrt{2}T$<br>D. $2T$  |
| 2  | With broadband information can be loaded:   | A. <p>In 1 min</p><br>B. <p>In 1 sec</p><br>C. <p>In 1 day</p><br>D. <p>In 2 days</p>                                       |
| 3  | Program up gradation refers to:   | A. Program enhancement<br>B. Program identification<br>C. Program development<br>D. Program implementation                  |
| 4  | To get a design on the computer screen by moving a pointer with the help of mouse is called:                  | A. word processing<br>B. graphic designing<br>C. data managing<br>D. telecommunication                                      |
| 5  | If the mass of the bob of a pendulum is increased by a factor of 3. The period of the pendulum's motion will: | A. Be increased by a factor 2<br>B. Remain the same<br>C. Be decreased by a factor of 2<br>D. Be decreased by a factor of 4 |
| 6  | The water waves after striking the hurdle will:   | A. Reflect<br>B. Refract<br>C. Diffract<br>D. All a , b, c  |
| 7  | At extreme position potential energy of the pendulum is   | A. Maximum<br>B. Miimum<br>C. a and b<br>D. zero  |
| 8  | Which of the following characteristics of a wave is independent of the others:                                | A. speed<br>B. frequency<br>C. amplitude<br>D. wavelength   |
| 9  | In simple Harmonic motion, the acceleration of the body is _____ proportional to the displacement.            | A. Inversely<br>B. Directly<br>C. Equally<br>D. None of these   |
| 10 | The time period of frequency and time period is equal to:   | A. $v$<br>B. 1<br>C. 0<br>D. $\lambda$  |
| 11 | The speed of waves can be calculated by:  | A. $Vt$<br>B. $d \times t$<br>C. $f \lambda$<br>D. $Tf$   |
| 12 | Which of the following is a method of energy transfer:  | A. <p>Conduction</p><br>B. <p>Radiation</p><br>C. <p>Wave motion</p><br>D. <p>All of these</p>                              |
| 13 | The way of doing business by using web is called:   | A. <p>Sources of entertainment</p><br>B. <p>Web business</p><br>C. <p>E-</p>  |

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| 14 | In CD presence of pits is indicated by:                                 | A. 0<br>B. 2<br>C. 3<br>D. 1   |
| 15 | The value of acceleration in simple harmonic motion at mean position is | A. Maximum<br>B. Zero<br>C. 10 N<br>D. Both a , b  |
| 16 | The wave properties   | A. Reflection<br>B. Refraction<br>C. Diffraction<br>D. All of these  |
| 17 | When a body moves to and fro about a point its motion is called:        | A. Random motion<br>B. Linear motion<br>C. Vibratory motion<br>D. Rotatory motion  |
| 18 | First voice signal was transmitted in the form of electrical signal in: | A. <p class="MsoNormal">1870<o:p></o:p></p><br>B. <p class="MsoNormal">1875<o:p></o:p></p><br>C. <p class="MsoNormal">1876<o:p></o:p></p><br>D. <p class="MsoNormal">1880<o:p></o:p></p> |
| 19 | In there is no extension in the spring then this positon is called      | A. Equilibrium position<br>B. Unequilibrium<br>C. Nautral equilibrium<br>D. Stable equilibrium   |
| 20 | Mathematical formula of spring constant is:                             | A. $F/x$<br>B. $X/F$<br>C. $F/t$<br>D. $F/m$   |