

## Physics ECAT Pre Engineering Chapter 4 Work and Energy Online Test

| Sr | Questions                                                                                                                                                                                  | Answers Choice |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 1  | A body moves a distance of 10 m along a straight line under the action of a force of 5 N. If the work done is 25 J, the angle which force makes with the direction of motion of a body is: | A. 0           |

|    |                                                                                                                                                                                      | D. Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10 | Which of the following type of force can do no work on the particle on which it acts:                                                                                                | A. Frictional force B. Gravitational force C. Electric force D. Centripetal force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 11 | The field in which work done is moving body between two points depends upon the path followed is called:                                                                             | A. Conservative filed B. Non-conservative field C. Electric field D. None of these                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 12 | Work done along a closed path in a gravitational field is:                                                                                                                           | A. Maximum B. Minimum C. Zero D. Unity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 13 | A body moves a distance of 10 m along a straight line under the action of a force of 5 N and work done is 25J. the angle which the force makes with the direction of motion will be: | A. 60 <span 10.5pt;="" 107%;="" arial,="" background-attachment:="" background-c<="" background-clip:="" background-image:="" background-lip:="" background-origin:="" background-position:="" background-repeat:="" background-size:="" font-family:="" font-size:="" initial;="" line-height:="" sans-serif;="" style="font-size: 10.5pt; line-height: 107%; font-family: Arial, sans-serif; background-image: initial; background-position: initial; background-geat: initial; background-attachment: initial; background-origin: initial; background-origin: initial; background-origin: initial; background-origin: initial; background-lip: initial; background-position: initial; background-position: initial; background-size: initial; background-repeat: initial; background-attachment: initial; background-origin: initial; background-clip: initial; background-clip: initial; background-size: initial; background-size: initial; background-position: initial; background-position: initial; background-repeat: initial; background-attachment: initial; background-origin: initial; background-origin: initial; background-origin: initial; background-origin: initial; background-origin: initial; background-origin: initial; background-size: initial; background-repeat: initial; background-image: initial; background-size: initial; background-repeat: initial; background-origin: initial; background-size: initial; background-origin: initial;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;14&lt;/td&gt;&lt;td&gt;The space around the earth within which it expects a force of attraction on other bodies is known as:&lt;/td&gt;&lt;td&gt;A. Nuclear field     B. Conservative field     C. Electric field     D. Gravitational field&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;15&lt;/td&gt;&lt;td&gt;Work done is maximum when angle between force and displacement is:&lt;/td&gt;&lt;td&gt;A. 0&lt;span style=" td=""></span> |