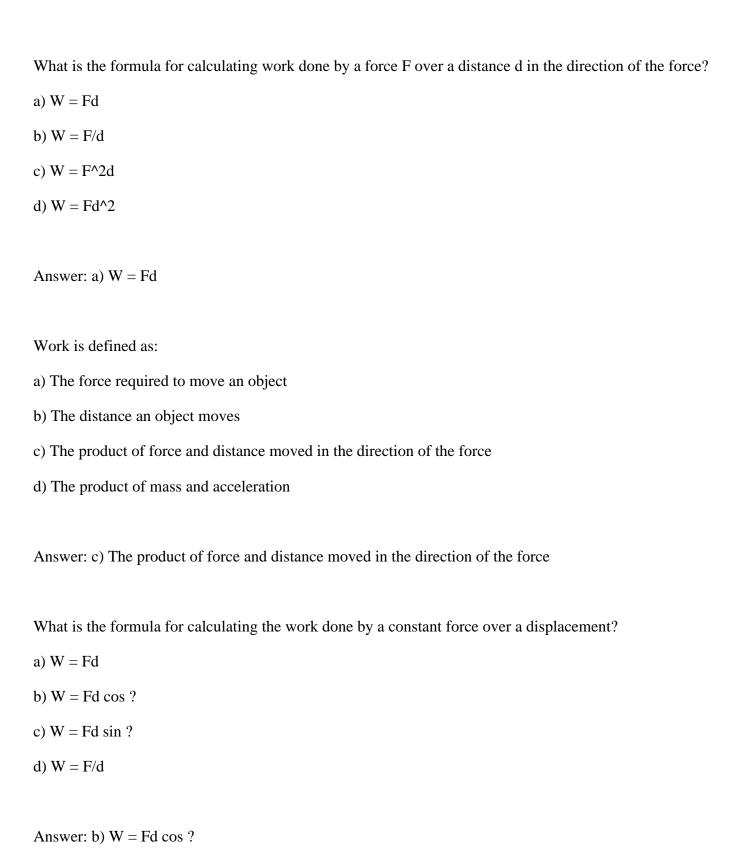
## 39 Lecture - MTH101

## **Important Mcqs**



What is the work done by a force of 10 N over a displacement of 5 m at an angle of 30 degrees to the horizontal?
a) 25 J
b) 43.3 J
c) 50 J
d) 86.6 J
Answer: b) 43.3 J
What is the area under a velocity-time graph?
a) Velocity
b) Acceleration
c) Displacement
d) Distance
Answer: d) Distance
The integral of force with respect to distance gives:
a) Acceleration
b) Work
c) Power
d) Momentum
Answer: b) Work
What is the formula for calculating the work done by a variable force over a displacement?
a) $W = ? F dx$
b) $W = ? F dt$
c) $W = ? F ds$

