

UNIT DYNAMICS

| | MULTIPL | E CHOICE QUESTIONS | | | | | |
|------|---|--|--|--|--|--|--|
| 1. | by: | | | | | | |
| | (a) Einstein | (b) Newton | | | | | |
| | (c) Galileo | (d) Archimedes | | | | | |
| 2. | Isaac Newton described the laws of motion in his famous book: | | | | | | |
| | (a) Qanoon-ul-Masoodi | (b) Principia Mathematica | | | | | |
| | (c) Kitab-ul-Astralab | (d) Al-Manazir | | | | | |
| 3. | The laws of motion established the relationship between motion and: | | | | | | |
| | (a) Force | (b) Torque | | | | | |
| | (c) Acceleration | (d) Momentum | | | | | |
| 4. | First law of motion is also know | | | | | | |
| | (a) Torque | (b) Acceleration | | | | | |
| | (c) Inertia | (d) None of these | | | | | |
| 5. / | of a body is the di | | | | | | |
| | (a) Mass | (b) Energy | | | | | |
| | (c) Momentum | (d) All of above | | | | | |
| 6. | | ue to which it tends to retain its state of rest or of uniform | | | | | |
| | motion is known as: | | | | | | |
| | (a) Weight | (b) Force | | | | | |
| | (c) Inertia | (d) Momentum | | | | | |
| 7. | is the agency which changes or tends to change the state of rest or of | | | | | | |
| | uniform motion of a body: | Im Com | | | | | |
| | (a) Weight | (b) Force | | | | | |
| | (c) Inertia | (d) Momentum | | | | | |
| 8. | Law of inertia is actually the | law of motion: | | | | | |
| | (a) First | (b) Second | | | | | |
| | (c) Third | (d) Fourth | | | | | |
| 9. | When a force is applied on the body, is produced in the body: | | | | | | |
| | (a) Weight | (b) Acceleration | | | | | |
| | (c) Energy | (d) None of the above | | | | | |
| 10. | The acceleration produced in a moving body is always in the direction of applied | | | | | | |
| | : | | | | | | |
| | (a) Velocity | (b) Force | | | | | |
| | (c) Speed | (d) Momentum | | | | | |
| 11. | If mass of the body is doubled while keeping the force constant, then acceleration will | | | | | | |
| | be: | | | | | | |
| | (a) One half | (b) doubled | | | | | |
| | (c) One fourth | (d) Four times | | | | | |
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| 12. | If force applied on the body is do | oubled while keeping the mass constant, then |
|-------------|---------------------------------------|--|
| | acceleration will be: | |
| | (a) One half | (b) doubled |
| | (c) One fourth | (d) Four times |
| 13. | SI unit of force is: | |
| | (a) Kilogram | (b) Dynes |
| | (c) newton | (d) Pound |
| 14. | | on a body of mass 2 kg, then the acceleration |
| | produced will be: | |
| | (a) 16 ms ⁻² | (b) 4 ms ⁻² |
| | (c) 0.4 ms ⁻² | (d) 160 ms ⁻² |
| 15. | 1 N = | (GRW 2014) |
| | (a) kgms ⁻² | (b) kgms ⁻¹ |
| | (c) kgm ² s ⁻¹ | (d) kg ² ms ⁻² |
| 16. | | itude but opposite in direction is known as |
| 10. | law of motion: | attack but opposite in un cetton is miown us |
| | (a) First | (b) Second |
| | (c) Third | (d) Fourth |
| 17. | Walking on road is an example of | |
| 1.7. | (a) First | (b) Second |
| | (c) Third | (d) Fourth |
| 18. | When a block is lying on a smooth sur | A SALAR TOUR DESCRIPTION OF THE PROPERTY OF TH |
| 10. | (a) Mass | (b) Momentum |
| | (c) Inertia | (d) Normal Reaction |
| 19. | The weight of a body of mass 10 kg on | |
| 19. | (a) 10 N | (b) 1 N |
| | (c) 100 N | (d) 1000 N |
| 20. | The of a body always acting | |
| 20. | (a) Mass | (b) Force |
| | (c) Velocity | (d) Weight |
| 21. | Quantity of matter in a body: | (d) Weight |
| 21, | (a) Mass | (b) Force |
| | (c) Velocity | (d) Weight |
| 22. | The Force with which earth attracts a | |
| 22. | (a) Mass | (b) Force |
| | (c) Weight | (d) Inertia |
| 23. | , , , | termines the magnitude of acceleration produced |
| | when a certain force acts upon it: | produced |
| | (a) Mass | (b) Force |
| | (c) Inertia | (d) Weight |
| 24. | Mass of the body is measured by: | (4) 110811 |
| | (a) Free Fall Apparatus | (b) Physical balance |
| | (c) Spring balance | (d) All of above |
| 25. | Weight of the body is measured by: | (u) All of above |
| 20. | (a) Free Fall Apparatus | (b) Physical balance |
| | (c) Spring balance | (d) All of above |
| 26. | Unit of weight is: | (a) Thi of above |
| 20. | (a) kg | (b) ms ⁻¹ |
| | (c) Nm | (d) N |
| 27. | of a body remains same e | |
| <i>21</i> . | (a) Weight | (b) Acceleration |
| | (c) Velocity | (d) Mass |
| | (-,) | () |

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| 28. | of a body does not remain | 20 min 1 |
|--------------|--|--|
| | (a) Weight | (b) Inertia |
| | (c) Mass | (d) All of above |
| 29. | The value of weight of a body of constant | nt mass depends on: |
| | (a) Inertia | (b) Momentum |
| | (c) Force | (d) 'g' |
| 30. | Mass is a quantity: | |
| | (a) Scalar | (b) Vector |
| | (c) Derived | (d) Negative |
| 31. | Weight is a quantity: | |
| | (a) Scalar | (b) Vector |
| | (c) Unitless | (d) Negative |
| 32. | | a rope then weight of the body is balanced by: |
| | (a) Acceleration | (b) Inertia |
| | (c) Displacement | (d) Tension |
| 33. | There are cases of motion of the | |
| | (a) 1 | (b) 2 |
| | (c) 3 | (d) 4 |
| 34. | | noves vertically and the other moves horizontally |
| | | on produced when both bodies move vertically: |
| | (a) Half | (b) One fourth |
| | (c) Double | (d) Four times |
| 35. | Quantity of motion in a body is known | |
| | (a) Mass | (b) Momentum |
| | (c) Velocity | (d) Acceleration |
| 36. | Product of mass and velocity is known | |
| | (a) Force | (b) Speed |
| | (c) Momentum | (d) Acceleration |
| 37. | SI unit of Momentum is: | (GRW 2013, LHR 2015) |
| | (a) Kgms ⁻² | (b) Ns |
| | (c) Kgms ⁻¹ | (d) Both b & c |
| 38. | Kgms ⁻¹ = | |
| | (a) N | (b) J |
| | (c) Ns | (d) W |
| 39. | Rate of change of momentum is equal to | |
| | (a) Force | (b) Velocity |
| | (c) Acceleration | (d) Impulse |
| 40. | Direction of the rate of change of mome | |
| | (a) Acceleration | (b) Momentum |
| | (c) Velocity | (d) Force |
| 41. | The force which resists the motion of or | ne surface on another surface is known as: |
| | (a) Gravity | (b) Friction |
| | (c) Weight | (d) Repulsion |
| 42. | When object is at rest, the force of frict | |
| | (a) Static | (b) Limiting |
| | (c) Kinetic | (d) Dynamics |
| 43. | The maximum value of static friction is | |
| remetoralite | (a) Static | (b) Limiting |
| | (c) Kinetic | (d) Dynamics |
| 44. | When an object is in motion then the fo | |
| 16 R.D. | (a) Static | (b) Limiting |
| | (c) Kinetic | (d) Dynamics |

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| 45. | Static friction is than kinetic | |
|-----------|--|--|
| | (a) Less | (b) Quartered |
| | (c) Greater | (d) Equal |
| 46. | Rolling friction is than Sliding | ng friction: |
| | (a) Less | (b) Quartered |
| | (c) Greater | (d) Equal |
| 47. | The coefficient of friction has | · unit: |
| | (a) Newton | (b) Dynes |
| | (c) No | (d) Kilogram |
| 48. | Friction of liquids is than fri | ction of solids: |
| | (a) Less | (b) Quartered |
| | (c) Greater | (d) Equal |
| 49. | Coefficient of friction does not depend upo | |
| | (a) Area of contact | (b) Normal Reaction |
| | (c) Weight | (d) Roughness |
| 50. | The rolling friction is about ti | |
| 1000 | (a) 10 | (b) 50 |
| | (c) 100 | (d) 1000 |
| 51. | Friction in the human joints is much red | No. 2 |
| 01, | (a) Bones | (b) Muscles |
| | (c) Fluid | (d) Gas |
| 52. | Value of coefficient of friction (μ _k) depen | CANADA TELEPO |
| 52. | (a) Nature of the surfaces | (b) Area of contact |
| | (c) Force | (d) All of above |
| 53. | The Rotation of water sprinkler is an exa | |
| 33. | (a) First | (b) Second |
| | (c) Third | (d) Fourth |
| 54. | A spider web remains intact due to: | (d) Tourin |
| 34. | (a) Weight | (b) Momentum |
| | (c) Tension | (d) None of these |
| 55. | Momentum of a moving body depends u | And the second s |
| 33, | (a) Mass | (b) Velocity |
| | (c) Weight | (d) Both a & b |
| 56. | Motion of the rocket is an example of: | (d) Both a & o |
| 30. | (a) First law of motion | (b) Law of conservation of Momentum |
| | (c) Law of conservation of Energy | |
| <i>57</i> | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | (d) Weight is usually than coefficient of kinetic |
| 57. | | is usually than coefficient of kinetic |
| | friction (μ _k): | (b) Quartered |
| | (a) Less | (b) Quartered |
| 50 | (c) Greater | (d) Equal |
| 58. | When air is released from an inflated ba | |
| | (a) First law of motion | (b) Law of conservation of Energy |
| 50 | (c) Weight | (d) Law of conservation of Momentum |
| 59. | Sliding friction is commonly converted in | |
| | (a) Ball bearing | (b) Oil |
| | (c) Grease | (d) Polish |
| 60. | | aeroplanes and ships are shaped wedge like to |
| | reduce: | A N D |
| | (a) Weight | (b) Pressure |
| | (c) Speed | (d) Friction |

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ANSWER KEY

| Q. | Ans |
|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|
| 1 | b | 11 | a | 21 | a | 31 | b | 41 | b | 51 | c |
| 2 | b | 12 | b | 22 | c | 32 | d | 42 | a | 52 | a |
| 3 | a | 13 | c | 23 | a | 33 | b | 43 | b | 53 | c |
| 4 | c | 14 | b | 24 | b | 34 | a | 44 | c | 54 | c |
| 5 | a | 15 | a | 25 | c | 35 | b | 45 | c | 55 | d |
| 6 | c | 16 | c | 26 | d | 36 | С | 46 | a | 56 | b |
| 7 | b | 17 | c | 27 | d | 37 | d | 47 | c | 57 | c |
| 8 | a | 18 | d | 28 | a | 38 | c | 48 | a | 58 | d |
| 9 | b | 19 | c | 29 | d | 39 | a | 49 | a | 59 | a |
| 10 | b | 20 | d | 30 | a | 40 | d | 50 | c | 60 | d |

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