22. Which of the following is not conservative force
    A. friction   B. electric

    C. gravitational   D. magnetic

    Answer: Option A

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23. Work has the dimension as that of same as that of
    A. torque   B. angular momentum

    C. linear momentum   D. power

    Answer: Option A

---

24. The consumption of energy by a 60 watt bulb in 2 sec is
    A. 120 J   B. 60 J

    C. 30 J   D. 0.02 J

    Answer: Option A

---

25. The relation between the escape velocity V esc and orbital speed Vo is given by
    A. V esc = 1/2Vo   B. V esc = ?2 Vo

    C. V esc = Vo   D. V esc = 2Vo

    Answer: Option B

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26. The escape velocity form the earth surface in km S-1 is
    A. 4.2 km S-1   B. 7.5 km S-1

    C. 9.5 km S-1   D. 1.1 km S-1

    Answer: Option D

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27. If moon radius is 1600 km and g on its surface is 1.6 ms-2 then the escape
    velocity on the moon is

A. 1600 ms-1   B. 50.6 ms-1

C. 71.6 ms-1   D. 2263ms-1

Answer: Option B

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28. When two protons are brought together

A. Kinetic energy increases   B. P.E. between them increases

C. P.E. between them decreases   D. P.E. between tem does not change

Answer: Option B

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29. When arrow is released form its bow, its energy is transformed from

A. heat energy to K.E   B. elastic P.E to K.E

C. elemical energy to elastic P.E   D. K.E to elastic P.E.

Answer: Option B

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30. A man lifts vertically a weight of 40kg through 1m in 10s; while a chile lifts vertically a weight of 10kg through a distance of 1m in 1s. What will be correct inference?

A. man does more work than child   B. child does more work than man

C. both do the same amount of work   D. it is a foolish question

Answer: Option B