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Questions:

Problems

1. Inian and Ezhilan argue about the light year. Inian tells that it is 9.46×10^{15} m and Ezhilan argues that it is 9.46×10^{12} km. Who is right? Justify your answer.
2. The main scale reading while measuring the thickness of a rubber ball using Vernier caliper is 7 cm and the Vernier scale coincidence is 6. Find the radius of the ball.
3. Find the thickness of a five rupee coin with the screw gauge, if the pitch scale reading is 1 mm and its head scale coincidence is 68.
4. Find the mass of an object weighing 98 N.
5. If a man has a mass 50 kg on the earth, then what is his weight?

Assertion and reason

6. Assertion(A): The scientifically correct expression is " The mass of the bag is 10 kg"
   Reason (R): In everyday life, we use the term weight instead of mass
   (a) Both A and R are true but R is not the correct reason
   (b) Both A and R are true and R is the correct reason
   (c) A is true but R is false
   (d) A is false but R is true
7. Assertion (A): 0 °C = 273.16 K. For our convenience we take it as 273 K after rounding off the decimal
   Reason (R): To convert a temperature on the Celsius scale we have to add 273 to the given temperature
   (a) Both A and R are true but R is not the correct reason
   (b) Both A and R are true and R is the correct reason
   (c) A is true but R is false
   (d) A is false but R is true
8. Assertion (A): Distance between two celestial bodies is measured in terms of light year
   Reason (R): The distance travelled by the light in one year is one light year
   (a) Both A and R are true but R is not the correct reason
   (b) Both A and R are true and R is the correct reason
   (c) A is true but R is false
   (d) A is false but R is true

QB365 Study Material QUESTION BANK 365

Match the following

9. Length
10. Mass
11. Time
12. Temperature
13. Screw gauge
14. Vernier caliper
15. Beam balance
16. Digital balance

True or False

17. With the help of vernier caliper we can have an accuracy of 0.1 mm and with screw gauge we can have an accuracy of 0.01 mm.
    (a) True (b) False

Fill in the blanks

18. Metre is the unit of _____
19. 1 kg of rice is weighed by _____
20. Thickness of a cricket ball is measured by _____
21. Radius of a thin wire is measured by _____
22. A physical balance measures small differences in mass up to _____.

Multiple Choice Question

23. Choose the correct one
    (a) mm < cm < m < km (b) mm > cm > m > km (c) km < m < cm < mm (d) mm > m > cm > km
24. Rulers, measuring tapes and metre scales are used to measure
    (a) Mass (b) Weight (c) Time (d) Length
25. 1 metric ton is equal to
    (a) 100 quintals (b) 10 quintals (c) 1/10 quintals (d) 1/100 quintals
26. Which among the following is not a device to measure mass?
    (a) Spring balance (b) Beam balance (c) Physical balance (d) Digital balance