**TEST QUESTIONS**

**1. A doctor prescribes a medicine with an adult dose of 250 mg. How much should be given to a 4-year-old child?**

Solution:

Using **Young’s Rule** formula,

 Child’s Dose = Age in years × Adult Dose

 Age + 12

 = 4\_\_\_ × 250

 4 + 12

 = 62.5 mg

Thus, the child’s dose is **62.5 mg**.

**2. An adult dose of a drug is 150 mg. What is the correct dose for a 9-month-old infant?**

Solution:

Using **Fried’s Rule** formula,

 Child’s Dose= Age in Months × Adult Dose

 150

 = 9\_\_\_ × 150

 150

 = 9mg

Thus, the infant’s dose is **9 mg**.

**3. A doctor prescribes 400 mg of a drug for adults. What is the correct dose for a 12-year-old child?**

**Solution:**

Using **Dilling’s Rule** formula,

 Child’s dose = Age in years​ × Adult Dose

 20

 = $\frac{12}{20}×400$

 = 240mg

 Thus, the child’s dose is **240 mg**.

**4. A doctor prescribes a medicine with an adult dose of 400 mg. What is the correct dose for a child weighing 20 kg?**

**Solution:**

Using Clarke’s Rule formula,

 Child’s Dose= Childs Weight(kg)×2.2 × Adult dose

 150

 **=** $\frac{20×2⋅2}{150}×400$

 = 117.33 mg

Thus, the child’s dose is **117 mg** .