## Aptitude Clocks Questions and Answers Pdf

1. How many times in a day, are the hands of a clock in straight line but opposite in direction?
(A) 20
(B) 22
(C) 24
(D) 48

Ans: B
The hands of a clock point in opposite directions (in the same straight line) 11 times in every 12 hours (Because between 5 and 7 they point in opposite directions at 60 'clock only).
So, in a day, the hands point in the opposite directions 22 times.
2. How many times in a day, the hands of a clock are straight?
(A) 22
(B) 24
(C) 44
(D) 48

Ans: C
In 12 hours, the hands coincide or are in opposite directions 22 times.
$\therefore$ In 24 hours, the hands coincide or are in opposite direction 44 times a day.
3. How many times do the hands of a clock coincide in a day?
(A) 20
(B) 21
(C) 22
(D) 24

Ans: C
The hands of a clock coincide 11 times in every 12 hours (since between 11 and 1, they coincide only once i.e., at 12 o'clock).
$\therefore$ the hands coincide 22 times in a day.
4. How many times are the hands of a clock at right angle in a day?
(A) 22
(B) 24
(C) 44
(D) 48

Ans; C
In 12 hours, they are right angles times.
$\therefore$ In 24 hours, they are at right angles 44 times.
5. The reflex angle between the hands of a clock at 10.25 is
a. 180\°
b. 192 (1/2)\°
c. 195\°
d. 197 (1/2)\°

Ans: D
Angle traced by hour hand in $\frac{125}{12} \mathrm{hrs}=\left(\frac{360}{12} \times \frac{125}{12}\right)^{\circ}=312 \frac{1}{2}^{\circ}$.
Angle traced by minute hand in $25 \mathrm{~min}=\left(\frac{360}{60} \times 25^{\circ}\right)=150^{\circ}$. $\therefore$ Reflex angle $=360^{\circ}-\left(312 \frac{1}{2}-150\right)^{\circ}=360^{\circ}-162 \frac{1}{2}^{\circ}=197 \frac{1}{2}^{\circ}$

