ALL BRANCH (Hinglish)

General Aptitude

Quantitative Aptitude

DPP 11 Discussion Notes

Clock

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MCQ

How many times do the hands of a clock point towards each other in a day?

12 hrs = 11 times

24 hrs = 22 times

same direction

0°

A 18

B 19

C 22

D 20

MCQ

A clock which gains 5 minutes in every two hours is set at 12.00 P.M. on a certain day. Find the time shown by the watch on the next day 11 A.M.

(+) 2.5 min/hr

12pm → 11 am = 23 hrs

(A) 12 hrs 47 min 30 sec

(B) 11 hrs 57 min 30 sec

(C) 12 hrs 20 min 30 sec

(D) 12 hrs 15 min 30 sec

$$\begin{array}{r} 23 \\ \times 2.5 \\ \hline 57.5\,(+) \end{array}$$

57 min 30 sec

MCQ

A clock which loses 10 seconds in every minute is set at 2.00 P.M. on a certain day. Find the time shown by the watch on the next day 8 P.M.

(A) 1 P.M.

(B) 2 P.M.

(C) 3 P.M.

(D) 4 P.M.

(−) 10 minute / hr

2pm − 8pm = 30 hrs

30 × 10 = 300 min (−)

= 5 hrs (−)

8pm
− 5hr
3pm

MCQ

A clock which loses 50 seconds every two minutes is set at 6.00 P.M. on a certain day. What is the time shown by this watch on the next day if the current time is 3.00 P.M.?

480 min

(-) 25 sec / min

(-) 25 min / hour

6 pm − 3 pm = 21 hrs

3 pm − 8 hrs 45 min

6:15 am

21 × 25 = 525 min (-)

8 hrs 45 min (-)

A. 4 A.M.

B. 9:15 A.M.

C. 5 A.M.

D. 6:15 A.M. ✓

MCQ

How many times do the hands of a clock coincide in a day?

A 22

B 23

C 24

D 48

0°

12 hrs = 11 times

24 hrs = 22 times

MCQ

How many times are the hands of a clock at right angles in a day?

90°

A 22

B 48

C 44

D 46

12 hrs = 22 times

24 hrs = 44 times

MCQ

What is the angle between the hands of the clock at 2:45?

(A) $180\frac{1^\circ}{2}$

(B) $182\frac{1^\circ}{2}$

(C) $172\frac{1^\circ}{2}$

(D) $181\frac{1^\circ}{2}$

$2 \Rightarrow 60^\circ$

$45 \times 5.5 \Rightarrow 247.5^\circ$

187.5°

$360 - 187.5 = 172.5$

MCQ

At 9' O clock find the angle between the hands of the clock?

$9 \times 30^\circ = 270$

(A) 270°

(B) $250\frac{1^\circ}{2}$

(C) $150\frac{1^\circ}{2}$

(D) $220\frac{1^\circ}{2}$

MCQ

At what time between 6 O' clock and 7 O' clock the hands of the clock will coincide?

(A) $30\frac{8}{11}$ min

(B) $32\frac{8}{11}$ min

(C) $20\frac{8}{11}$ min

(D) $25\frac{8}{11}$ min

$\frac{180}{5.5} = \frac{360}{11} = 32\frac{8}{11}$

MCQ

At what time between 3 O' clock and 4 O' clock the hands of the clock will be at right angles?

90°

(A) $30\frac{8}{11}$ min

(B) $32\frac{8}{11}$ min

(C) $20\frac{8}{11}$ min

(D) $25\frac{8}{11}$ min

$\frac{180}{5.5} = \frac{360}{11} = 32\frac{8}{11}$

Thank You!

GW Soldiers