

Clocks and faulty clocks

Q1. How many times in a day, the hands of a clock are straight?

- (a) 22 (b) 24 (c) 44 (d) 48

Q2. At what time between 9 and 10 o'clock will the hands of a watch be together?

- (a) 45 min. past 9 (b) 50 min. past 9 (c) $49\frac{1}{11}$ min. past 9 (d) $48\frac{2}{11}$ min. past 9

Q3. At what time between 4 and 5 o'clock will the hands of a watch point in opposite directions?

- (a) 45 min. past 4 (b) 40 min. past 4 (c) $50\frac{4}{11}$ min. past 4. (d) $54\frac{6}{11}$ min. past 4

Q4. The angle between the minute hand and the hour hand of a clock when the time is 8.30, is:

- (a) 80° (b) 75° (c) 60° (d) 105°

Q5. A clock gains 15 minutes per day. If it is set right at 12 noon, the time it shows at 4 AM is:

- (a) 4 : 20 AM (b) 4 : 30 AM (c) 4 : 02 AM (d) 4 : 10 AM

Q6. A watch gains 5 seconds in 3 minutes and was set right at 8 AM. What time will it show at 10 PM on the same day ?

- (a) 10 : 27 : 41 AM (b) 8 : 51 : 04 AM (c) 9 : 45 : 15 PM (d) 10 : 23 : 20 PM

Q7. In 16 minutes, the minute hand gains over the hour hand by –

- (a) 16° (b) 80° (c) 88° (d) 94°

Q8. What is the angle made by the hour hand and the minute hand, if the clock shows 9:15 pm?

- (a) 165 degrees (b) 172.5 degrees (c) 125.5 degrees (d) 180 degrees

Q9. A clock is set right at 5 a.m. The clock loses 16 minutes in 24 hours. What will be the true time when the clock indicates 10 p.m. on 4th day?

- (a) 11 pm (b) 12 pm (c) 1 pm (d) 2 pm

Q10. A clock is set right at 8 a.m. The clock gains 10 minutes in 24 hours will be the true time when the clock indicates 1 p.m. on the following day?

- (a) 48 min. past 12. (b) 46 min. past 12. (c) 45 min. past 12. (d) 47 min past 12.

Q11. An accurate clock shows 8 o'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?

- (a) 144° (b) 150° (c) 168° (d) 180°

Q12. A watch which gains 5 seconds in 3 minutes was set right at 7 a.m. In the afternoon of the same day, when the watch indicated quarter past 4 o'clock, the true time is:

- (a) $59\frac{7}{12}$ Min. past 3. (b) 4 PM (c) $58\frac{7}{11}$ Min. past 3. (d) None of these

Q13. How much does a watch lose per day, if its hands coincide every 64 minutes?

- (a) $32\frac{8}{11}$ Min. (b) $36\frac{5}{11}$ Min. (c) 90 Min. (d) 96 Min.

Q14. A watch which gains uniformly is 2 minutes low at noon on Monday and is 4 min. 48 sec fast at 2 p.m. on the following Monday. When was it correct?

- (a) 2 p.m. on Tuesday (b) 2 p.m. on Wednesday
(c) 3 p.m. on Thursday (d) 1 p.m. on Friday

Q15. A watch which gains uniformly, is 5 min, slow at 8 o'clock in the morning on Sunday and it is 5 min 48 sec. fast at 8 p.m. on following Sunday. when was it correct?

- (a) 7 pm on Wednesday (b) 20 min past 7 pm on Wednesday
(c) 15 min past 7 pm on Wednesday (d) 8 pm on Wednesday

Q16. How many degrees will the minute hand move, in the same time in which the second hand move 4800 degrees?

- (a) 80 degrees (b) 160 degrees (c) 140 degrees (d) 135 degrees

Q17. At 6'o clock a clock ticks 6 times. The time between first and last ticks is 30 seconds. How long does it tick at 12'o clock ?

- (a) 24 sec (b) 36 sec (c) 55 sec (d) 66 sec

Q18. In every 60 minutes, the minute hand gains ----- minutes on the hour hand?

- (a) 53 min (b) 54 min (c) 55 min (d) 56 min

Q19. What will be the acute angle between the hour-hand and the minute-hand at 4:37 p.m.?

- (a) 18.5 degrees (b) 6 degrees (c) 83.5 degrees (d) None of these

Q20. Select the time that would depict the correct mirror image of 9:30 on a clock.

- (a) 2 : 30 (b) 4 : 30 (c) 6 : 30 (d) 7 : 30

Q21. How many times in a week does both the hands of the clock will coincide with each other?

- (a) 56 (b) 84 (c) 160 (d) 168

Answer key

1	C	6	D	11	D	16	A	21	D
2	C	7	C	12	B	17	D		
3	D	8	B	13	A	18	C		
4	B	9	A	14	B	19	C		
5	D	10	A	15	B	20	A		