

QUANTITATIVE APTITUDE- CLOCK

1. A clock is started at 6 O'clock in the morning. Though how many degrees will the hour hand rotate when the clock shows 11 O clock in the morning?

- (a) 140°
- (b) 180°
- (c) 150°
- (d) 100°

2. A clock is started at 5 pm. Through how many degrees will the hour hand rotate when the clock shows quarter past 9?

- (a) 128.5°
- (b) 142.5°
- (c) 127.5°
- (d) 141.5°

3. At 6: 15, the hour hand and the minute hand of a clock form an angle of

- (a) 90°
- (b) 91.5°
- (c) 97.5°
- (d) 94.5°

4. The angle between the minute hand and the hour Hand of a clock when the time is 9:30, is

- (a) 100°
- (b) 90°
- (c) 120°
- (d) 105°

5. A clock strikes 5 taking 8 s. In order to strike at 9 the same rate, the time taken is

- (a) 16 s
- (b) 12 s
- (c) 14 s
- (d) 18 s

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6. A clock strikes 12 taking 48 s. In order to strike 3 at the same rate, the time taken is

- (a) 24 s
- (b) 12 s
- (c) $8\frac{8}{11}$ s
- (d) $8\frac{2}{11}$ s

7. At what time between 1 and 2 O'clock are the hands of a clock together?

- (a) $5\frac{5}{11}$ min past 1
- (b) $5\frac{2}{11}$ min past 1
- (c) $5\frac{1}{11}$ min past 1
- (d) $5\frac{9}{11}$ min past 1

8. At what time between 9 and 10 O'clock will the hands of a clock be in the same straight line but not together?

- (a) $16\frac{4}{11}$ min past 9
- (b) $16\frac{2}{11}$ min past 9
- (c) $15\frac{4}{11}$ min past 9
- (d) $15\frac{3}{11}$ min past 9

9. At what time between 5 and 6 O'clock will the hands of clock be at right angle?

- (a) $10\frac{10}{11}$ min past 5
- (b) $43\frac{7}{11}$ min past 5
- (c) Both (a) and (b)
- (d) None of these

10. A watch which gains uniformly is 2 min slow at 10 am on Wednesday and is $2\frac{1}{2}$ min fast at 1 pm the following day. When was it correct?

- (a) 10:30 pm Wednesday
- (b) 9:15 pm Wednesday

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(c) 10:45 pm Wednesday

(d) 10 pm Wednesday

11. If the hands of a clock coincide every 64 min (true time) in 24 h. How much a day does the clock gain?

(a) $31\frac{5}{6}$ min

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

(c) $33\frac{8}{11}$ min

(d) $34\frac{5}{6}$ min

12. If the hands of a clock coincide every 66 min (true time) in 24 h, how much a day does the clock loose?

(a) $31\frac{5}{11}$ min

(b) $11\frac{109}{121}$ min

(c) $11\frac{100}{121}$ min

(d) $11\frac{4}{11}$ min

13. At what time between 5 and 5 : 30 are the hands of a clock 5 min apart?

(a) $20\frac{4}{11}$ min past 5

(b) $21\frac{7}{11}$ min past 5

(c) $20\frac{8}{11}$ min past 5

(d) $21\frac{9}{11}$ min past 5

14: A clock is set right at 10 am. The clock gains 10 min in a day. What will be the true time when the watch indicates 3 pm the next day?

(a) 12 min past 2 pm

(b) 45 min past 2 pm

(c) 48 min past 2 pm

(d) 30 min past 2 pm

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15. A clock is set to show the correct time at 7 am Monday. The clock loses 15 min in 24 h. What will be the true time when the clock indicates 6 am on the following Friday?

- (a) 6 : 15 am Friday
- (b) 6:30 am Friday
- (c) 7 am Friday
- (d) 7:15 am Friday

16. The reflection of a clock in the mirror is 3 h 45 min. What is the actual time shown in the clock? (a) 8 h 15 min

- (b) 9 h 30 min
- (c) 8 h 45 min
- (d) 9 h 15 min

17. If a wall clock shows 2 h 30 min. What time will the clock show in the mirror?

- (a) 8 h 45 min
- (b) 8 h 50 min
- (c) 9 h 50 min
- (d) 9 h 30 min

18. Find at what time between 8 and 9 o'clock will the hands of a clock be in the same straight line but not together?

- (a) 100/11 min past 8
- (b) 120/11 min past 8
- (c) 90/11 min past 8
- (d) 80/11 min past 8

19. 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.

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20. The angle between the minute hand and the hour hand of a clock when the time is 4.20, is:

- (a) 0
- (b) 10
- (c) 30
- (d) 60

21. What time will it be 18 hours from now in India, if in the USA it is 4:15 AM?

(Hint: IST = US + 9:30 hrs)

- (a) 1:45 in the afternoon
- (b) 7:45 in the evening
- (c) 7:45 in the next morning
- (d) 1:45 in the next morning

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

- (a) 54 past 4
- (b) $(53 + 7/11)$ past 4
- (c) $(54 + 8/11)$ past 4
- (d) $(54 + 6/11)$ past 4

23. At 3.40, the hour hand and the minute hand of a clock form an angle of:

- (a) 110
- (b) 120
- (c) 130
- (d) 140

24. How many times are the hands of a clock at right angle in a day?

- (a) 44
- (b) 54
- (c) 64
- (d) 22

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25. When the hands are in the opposite directions, they are minute spaces apart,

- (a) 15
- (b) 30
- (c) 60
- (d) 0

26. At what time between 2 and 3 o'clock will the hands of a clock be together?

- (a) $(9 + 10/11)$ min past 2
- (b) $(10 + 10/11)$ min past 2
- (c) $(11 + 10/11)$ min past 2
- (d) $(12 + 10/11)$ min past 2

27. 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) 360
- (b) 180
- (c) 90
- (d) 60

28. 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) 112.5 degrees
- (d) 125.5 degrees

29. Find the angle between the hour hand and the minute hand of a clock when the time is 3.25

- (a) 47.5 degrees
- (b) 57.5 degrees
- (c) 45.5 degrees
- (d) 55.5 degrees

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30. 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) 66 sec
- (b) 55 sec
- (c) 36 sec
- (d) 24 sec

31. 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) 11pm
- (b) 12pm
- (c) 1pm
- (d) 2pm

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

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

