1. In 30.00 min, the minute hand makes

    (i)  179.00°  (ii)  182.00°  (iii)  181.00°  (iv)  178.00°  (v)  180.00°

2. In 47.00 min, the hour hand makes

    (i)  24.50°  (ii)  21.50°  (iii)  23.50°  (iv)  25.50°  (v)  22.50°

3. In how many minutes, the minute hand makes an angle of 96.00°?

    (i)  17 min  (ii)  18 min  (iii)  15 min  (iv)  16 min  (v)  14 min

4. In how many minutes, the hour hand makes an angle of 19.50°?

    (i)  37 min  (ii)  39 min  (iii)  41 min  (iv)  40 min  (v)  38 min

5. What is the angle between the minute and hour hands at 07:04?

    (i)  188.00°  (ii)  186.00°  (iii)  190.00°  (iv)  187.00°  (v)  189.00°

6. At what time between 3 hr and 4 hr, the angle between the minute and hour hands is 42.00°?

    (i)  03:27:00 and 03:11:43  (ii)  03:24:00 and 03:08:43  (iii)  03:26:00 and 03:10:43

    (iv)  03:21:00 and 03:05:43  (v)  03:22:00 and 03:06:43

7. What is the time between 3 hr and 4 hr when the two hands coincide?

    (i)  03:16:22  (ii)  03:14:22  (iii)  03:13:22  (iv)  03:18:22  (v)  03:19:22

8. What is the time between 6 hr and 7 hr, when the two hands are perpendicular to each other?

    (i)  06:13:22 and 06:46:05  (ii)  06:14:22 and 06:47:05  (iii)  06:16:22 and 06:49:05

    (iv)  06:19:22 and 06:52:05  (v)  06:18:22 and 06:51:05

9. What is the time between 2 hr and 3 hr, when the two hands are opposite to each other?

    (i)  02:41:38  (ii)  02:40:38  (iii)  02:45:38  (iv)  02:46:38  (v)  02:43:38

10. A watch which gains time uniformly was observed to be 2 min slow at 09:54 AM on a day. At 06:15 PM on the same day it was 2 min fast. At what time did the watch show the correct time?

    (i)  02:07 PM  (ii)  02:06 PM  (iii)  02:02 PM  (iv)  02:04 PM  (v)  02:01 PM

11. A watch which gains time uniformly was observed to be 2 min slow at 08:25 AM on a day and 3 min fast at 00:16 PM on the next day. At what time did the watch show the correct time?

    (i)  07:33 PM  (ii)  07:30 PM  (iii)  07:35 PM  (iv)  07:31 PM  (v)  07:36 PM

12. A watch which looses time uniformly showed 3 min fast on a day when the correct time was 07:36 AM. It was observed to be 3 min slow at 01:21 PM on the same day. When did the watch show the correct time?

    (i)  10:31 AM  (ii)  10:25 AM  (iii)  10:28 AM  (iv)  10:26 AM  (v)  10:30 AM

13. A watch which looses time uniformly showed 2 min fast on a day when the correct time was 11:49 AM. It was observed to be 2 min slow at 02:18 PM on the next day. When did the watch show the correct time?

(i) 01:03 AM next day  (ii) 01:00 AM next day  (iii) 01:06 AM next day  (iv) 01:01 AM next day

(v) 01:05 AM next day

14. A clock was set at 01:48 PM on 14th September. On 15th September, at 08:48 PM, the clock showed 08:55 PM. If the clock showed 01:48 PM on 16th September, what was the correct time then?

(i) 01:40:13 PM  (ii) 01:34:13 PM  (iii) 01:35:13 PM  (iv) 01:39:13 PM  (v) 01:37:13 PM

15. A clock was set at 11:56 AM on 9th January. On 10th January, at 05:56 PM, the clock showed 05:48 PM. If the clock showed 10:56 AM on 11th January, what was the correct time then?

(i) 11:06:35 AM  (ii) 11:10:35 AM  (iii) 11:11:35 AM  (iv) 11:08:35 AM  (v) 11:05:35 AM

16. If the time in a clock is 0 hr 50 min, then what time does its mirror image show?

(i) 11:13  (ii) 11:10  (iii) 11:08  (iv) 11:12  (v) 11:07

17. In 57.00 min, the minute hand makes

(i) 341.00°  (ii) 343.00°  (iii) 340.00°  (iv) 342.00°  (v) 344.00°

18. In 0.00 min, the hour hand makes

(i) 7.00°  (ii) 0.00°  (iii) 1.00°  (iv) 2.00°  (v) 8.00°

19. In how many minutes, the minute hand makes an angle of 66.00°?

(i) 9 min  (ii) 10 min  (iii) 12 min  (iv) 13 min  (v) 11 min

20. In how many minutes, the hour hand makes an angle of 4.50°?

(i) 8 min  (ii) 10 min  (iii) 9 min  (iv) 7 min  (v) 11 min

21. What is the angle between the minute and hour hands at 07:27?

(i) 62.50°  (ii) 63.50°  (iii) 60.50°  (iv) 61.50°  (v) 59.50°

22. At what time between 8 hr and 9 hr, the angle between the minute and hour hands is 157.50°?

(i) 08:17:00  (ii) 08:18:00  (iii) 08:12:00  (iv) 08:15:00  (v) 08:13:00

23. What is the time between 10 hr and 11 hr when the two hands coincide?

(i) 10:54:33  (ii) 10:57:33  (iii) 10:51:33  (iv) 10:52:33  (v) 10:56:33

24. What is the time between 10 hr and 11 hr, when the two hands are perpendicular to each other?

(i) 10:38:11  (ii) 10:35:11  (iii) 10:41:11  (iv) 10:36:11  (v) 10:40:11

25. What is the time between 0 hr and 1 hr, when the two hands are opposite to each other?

(i) 00:30:44  (ii) 00:34:44  (iii) 00:35:44  (iv) 00:32:44  (v) 00:29:44

26. A watch which gains time uniformly was observed to be 2 min slow at 02:15 PM on a day. At 09:48 PM on the same day it was 2 min fast. At what time did the watch show the correct time?

(i) 06:03 PM  (ii) 06:01 PM  (iii) 05:58 PM  (iv) 05:59 PM  (v) 06:04 PM

27. A watch which gains time uniformly was observed to be 1 min slow at 11:34 AM on a day and 2 min fast at 08:19 PM on the next day. At what time did the watch show the correct time?

 (i) 10:31 PM  (ii) 10:29 PM  (iii) 10:32 PM  (iv) 10:27 PM  (v) 10:26 PM

28. A watch which looses time uniformly showed 2 min fast on a day when the correct time was 09:20 AM. It was observed to be 1 min slow at 02:31 PM on the same day. When did the watch show the correct time?

 (i) 00:44 PM  (ii) 00:47 PM  (iii) 00:45 PM  (iv) 00:50 PM  (v) 00:49 PM

29. A watch which looses time uniformly showed 6 min fast on a day when the correct time was 03:08 PM. It was observed to be 6 min slow at 05:09 PM on the next day. When did the watch show the correct time?

 (i) 04:10 AM next day  (ii) 04:06 AM next day  (iii) 04:08 AM next day  (iv) 04:05 AM next day

 (v) 04:11 AM next day

30. A clock was set at 06:20 AM on 12th March. On 13th March, at 11:20 AM, the clock showed 11:27 AM. If the clock showed 08:20 AM on 14th March, what was the correct time then?

 (i) 08:05:59 AM  (ii) 08:09:59 AM  (iii) 08:07:59 AM  (iv) 08:04:59 AM  (v) 08:10:59 AM

31. A clock was set at 06:02 AM on 11th September. On 12th September, at 00:02 PM, the clock showed 11:57 AM. If the clock showed 08:02 AM on 13th September, what was the correct time then?

 (i) 08:07:21 AM  (ii) 08:08:21 AM  (iii) 08:13:21 AM  (iv) 08:12:21 AM  (v) 08:10:21 AM

32. If the time in a clock is 1 hr 17 min, then what time does its mirror image show?

 (i) 10:43  (ii) 10:41  (iii) 10:40  (iv) 10:46  (v) 10:45

## Assignment Key

| | | | | | |
|---|---|---|---|---|---|
| 1) (v) | 2) (iii) | 3) (iv) | 4) (ii) | 5) (i) | 6) (ii) |
| 7) (i) | 8) (iii) | 9) (v) | 10) (iv) | 11) (i) | 12) (iii) |
| 13) (i) | 14) (v) | 15) (iv) | 16) (ii) | 17) (iv) | 18) (ii) |
| 19) (v) | 20) (iii) | 21) (iv) | 22) (iv) | 23) (i) | 24) (i) |
| 25) (iv) | 26) (ii) | 27) (ii) | 28) (ii) | 29) (iii) | 30) (iii) |
| 31) (v) | 32) (i) | | | | |