CALENDARS

Ranchan Kaul

Calendar

If the 1st of April, 2003 was Monday, then which day of the week will 25th of December, 2003 be?

a. Tuesday

b. Wednesday

c. Thursday

d. Friday

If the 1st Jan 1992 is a Tuesday, then on which day of the week will the 1st of January, 1993 fall?

a. Wednesday

b. Thursday

c. Friday

d. Saturday

If you were born on 14th of April, 1995 which was a Sunday, then on which day of the week does your birthday fall in 1996?

a. Monday

b. Tuesday

c. Wednesday

d. Friday

What is the next leap year after 2396?

a. 2398

b. 2408

c. 2404

d. 2400

What will be the next leap year after 2096?

a. 2100

b. 2101

c. 2104

d. 2108

If 14th of November 2006 is a Sunday, then 14th of November 2706 is a:

a. Sunday

b. Friday

c. Tuesday

d. Monday

Which day of the week was 18th of April, 1901?

a. Monday

b. Tuesday

c. Wednesday

d. Thursday

Which day of the week was 15th of August, 1947?

a. Wednesday

b. Thursday

c. Friday

d. Monday

Which day of the week was 24th of July, 2400?

a. Monday

b. Tuesday

c. Wednesday

d. Thursday

What was the day of the week of 1ˢᵗ January 2001?

(A) Tuesday

(B) Wednesday

(C) Friday

(D) Sunday

(E) Monday

What was the day of the week of 1st January 2000?

(A) Tuesday

(B) Wednesday

(C) Saturday

(D) Sunday

(E) Monday

What was the day of the week of 1ˢᵗ January 1999?

(A) Tuesday

(B) Wednesday

(C) Friday

(D) Sunday

(E) Monday

The day on 5th March of a year is the same day on what date of the same year?

(A) 5th August

(B) 5th October

(C) 5th November

(D) 5th December

Which year will have the same calendar as that of 2005?

a. 2006

b. 2007

c. 2008

d. 2011

Which year will have the same calendar as that of 2002?

a. 2009

b. 2008

c. 2013

d. 2010

UPSC 2019

59. Which year has the same calendar as that of 2009 ?

    (a)   2018

    (b)   2017

    (c)   2016

    (d)   2015

If in a particular non-leap year, June month had 5 Mondays, then that year must have started with which one of the following days?

(a) Thursday or Friday

(b) Friday or Wednesday

(c) Thursday or Saturday

(d) None of the above

UPSC 2019

12. Mr 'X' has three children. The birthday of the first child falls on the 5th Monday of April, that of the second one falls on the 5th Thursday of November. On which day is the birthday of his third child, which falls on 20th December ?

(a) Monday

(b) Thursday

(c) Saturday

(d) Sunday

UPSC 2020

20. If in a particular year 12th January is a Sunday, then which one of the following is correct?

(a) 15th July is a Sunday if the year is a leap year.

(b) 15th July is a Sunday if the year is not a leap year.

(c) 12th July is a Sunday if the year is a leap year.

(d) 12th July is not a Sunday if the year is a leap year.

UPSC 2021

47. Consider two Statements and a Question :

Statement-1 : The last day of the month is a Wednesday.

Statement-2 : The third Saturday of the month was the seventeenth day.

Question : What day is the fourteenth of the given month ?

Which one of the following is correct in respect of the Statements and the Question ?

(a) Statement-1 alone is sufficient to answer the Question

(b) Statement-2 alone is sufficient to answer the Question

(c) Both Statement-1 and Statement-2 are required to answer the Question

(d) Neither Statement-1 alone nor Statement-2 alone is sufficient to answer the Question

48. Which day is 10th October, 2027 ?

    (a)   Sunday

    (b)   Monday

    (c)   Tuesday

    (d)   Saturday

75. Joseph visits the club on every 5th day, Harsh visits on every 24th day, while Sumit visits on every 9th day. If all three of them met at the club on a Sunday, then on which day will all three of them meet again ?

(a) Monday

(b) Wednesday

(c) Thursday

(d) Sunday

UPSC 2022

Which date of June 2099 among the following is Sunday ?

A. 4

B. 5

C. 6

D. 7

UPSC 2023

49. If today is Sunday, then which day is it exactly on 10^{10} th day ?

(a) Wednesday

(b) Thursday

(c) Friday

(d) Saturday

CLOCKS

Ranchan Kaul

Clocks

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°

Through how many degrees does the minute hand rotate between 3:00 AM to 3:15 AM?

(a) 30°

(b) 90°

(c) 60°

(d) 30(5/11)°

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

(a) 120°

(b) 125°

(c) 130°

(d) 135°

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°

The angle between the minute hand and the hour hand of a clock when the time is 4:20 AM is :

(a) 0°

(b) 10°

(c) 5°

(d) 20°

At which one of the following times, do the hour hand and the minute hand of a clock make an angle of 180° with each other?

A. Between 8:10 and 8:15

B. At 8:10

C. At 8:05

D. Between 8:05 and 8:10

UPSC 2022

57. At which one of the following times, do the hour hand and the minute hand of the clock make an angle of 180° with each other ?

(a)   At 7:00 hours

(b)   Between 7:00 hours and 7:05 hours

(c)   At 7:05 hours

(d)   Between 7:05 hours and 7:10 hours

At what angle the hands of a clock are inclined at 15 minutes past 5 ?

(a) $58\frac{1}{2}^o$ (b) 64° (c) $67\frac{1}{2}^o$ (d) $72\frac{1}{2}^o$

) At what time,in minutes,between 3'o clock and 4'o clock, both the needles will coincide each other?

(a) $5\frac{1}{11}$ (b) $12\frac{4}{11}$ (c) $13\frac{4}{11}$ (d) $16\frac{4}{11}$

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

(a) 20   (b) 21   (c) 22   (d) 24

) At what time between 5.30 and 6 will the hands of a clock be at right angles ?

(a) $43\frac{5}{11}$ min. past 5   (b) $43\frac{7}{11}$ min. past 5   (c) 40 min. past 5   (d) 45 min. past 5

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

(a) 20   (b) 22   (c) 24   (d) 48

Between 6 PM and 7 PM the minute hand of a clock will be ahead of the hour hand by 3 minutes at:

A. 6: 15 PM

B. 6: 18 PM

C. 6: 36 PM

D. 6: 48 PM

A watch showed a time of fourteen minutes past nine (9 hrs and 14 minutes). The positions of the hour-hand and the minute hand of the watch are exactly interchanged. The new time shown by the watch is closest to which one of the following?

A. Twelve minutes to three

B. Thirteen minutes to three

C. Fourteen minutes to three

D. Fifteen minutes to three

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

(a) 2 PM on Tuesday

(b) 2 PM on Wednesday

(c) 3 PM on Thursday

(d) 1 PM on Friday

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 p.m   (c) $58\frac{7}{11}$ min. past 3   (d) $2\frac{3}{11}$ min. past 4

UPSC 2019

49. A wall clock moves 10 minutes fast in every 24 hours. The clock was set right to show the correct time at 8:00 a.m. on Monday. When the clock shows the time 6:00 p.m. on Wednesday, what is the correct time ?

(a) 5:36 p.m.

(b) 5:30 p.m.

(c) 5:24 p.m.

(d) 5:18 p.m.

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

UPSC 2022

A man started from home at 14:30 hours and drove to a village, arriving there when the village clock indicated 15:15 hours. After staying 25 minutes, he drove back by a different route of length 1.25 times the first route at a rate twice as fast, reaching home at 16:00 hours. As compared to the clock at home the village clock is

A. 10 min slow

B. 5 min slow

C. 5 min fast

D. 20 min fast

UPSC 2022

35. How many seconds in total are there in x weeks, x days, x hours, x minutes and x seconds?

(a) 11580x

(b) 11581x

(c) 694860x

(d) 694861x

UPSC 2022

68. Consider the following statements :

1. Between 3:16 p.m. and 3:17 p.m., both hour hand and minute hand coincide.

2. Between 4:58 p.m. and 4:59 p.m., both minute hand and second hand coincide.

Which of the above statements is/are correct?

(a) 1 only

(b) 2 only

(c) Both 1 and 2

(d) Neither 1 nor 2