

Aptitude :: Calendar

Ques1: It was Sunday on Jan 1, 2006. What was the day of the week Jan 1, 2010?

- A. Sunday
- B. Saturday
- C. Friday
- D. Wednesday

Answer: Option C

Explanation:

On 31st December, 2005 it was Saturday.

Number of odd days from the year 2006 to the year 2009 = $(1 + 1 + 2 + 1) = 5$ days.

On 31st December 2009, it was Thursday.

Thus, on 1st Jan, 2010 it is Friday.

Ques2: What will be the day of the week 15th August, 2010?

- A. Sunday
- B. Monday
- C. Tuesday
- D. Friday

Answer: Option A

Explanation:

15th August, 2010 = (2009 years + Period 1.1.2010 to 15.8.2010)

Odd days in 1600 years = 0

Odd days in 400 years = 0

9 years = (2 leap years + 7 ordinary years) = $(2 \times 2 + 7 \times 1) = 11$ odd days 4 odd days.

Jan. Feb. March April May June July Aug.

$(31 + 28 + 31 + 30 + 31 + 30 + 31 + 15) = 227$ days

227 days = (32 weeks + 3 days) 3 odd days.

Total number of odd days = $(0 + 0 + 4 + 3) = 7$ 0 odd days.

Given day is Sunday.

Ques3: Today is Monday. After 61 days, it will be:

- A. Wednesday
- B. Saturday
- C. Tuesday
- D. Thursday

Answer: Option B

Explanation:

Each day of the week is repeated after 7 days.

So, after 63 days, it will be Monday.

After 61 days, it will be Saturday.

Ques4: If 6th March, 2005 is Monday, what was the day of the week on 6th March, 2004?

- A. Sunday
- B. Saturday
- C. Tuesday
- D. Wednesday

Answer: Option A

Explanation:

The year 2004 is a leap year. So, it has 2 odd days.

But, Feb 2004 not included because we are calculating from March 2004 to March 2005. So it has 1 odd day only.

The day on 6th March, 2005 will be 1 day beyond the day on 6th March, 2004.

Given that, 6th March, 2005 is Monday.

6th March, 2004 is Sunday (1 day before to 6th March, 2005).

Ques5: How many days are there in x weeks x days?

- A. $7x^2$
- B. $8x$
- C. $14x$
- D. 7

Answer: Option B

Explanation:

x weeks x days = $(7x + x)$ days = $8x$ days.

Ques6: The last day of a century cannot be

- A. Monday
- B. Wednesday
- C. Tuesday
- D. Friday

Answer: Option C

Explanation:

100 years contain 5 odd days.

Last day of 1st century is Friday.

200 years contain $(5 \times 2) + 3$ odd days.

Last day of 2nd century is Wednesday.

300 years contain $(5 \times 3) + 1$ odd day.

Last day of 3rd century is Monday.

400 years contain 0 odd day.

Last day of 4th century is Sunday.

This cycle is repeated.

Last day of a century cannot be Tuesday or Thursday or Saturday.

Ques7: On 8th Feb, 2005 it was Tuesday. What was the day of the week on 8th Feb, 2004?

- A. Tuesday
- B. Monday
- C. Sunday
- D. Wednesday

Answer: Option C

Explanation:

The year 2004 is a leap year. It has 2 odd days.

The day on 8th Feb, 2004 is 2 days before the day on 8th Feb, 2005.

Hence, this day is Sunday.

Ques8: The calendar for the year 2007 will be the same for the year:

- A. 2014
- B. 2016
- C. 2017
- D. 2018

Answer: Option D

Explanation:

Count the number of odd days from the year 2007 onwards to get the sum equal to 0 odd day.

Year : 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017

Odd day: 1 2 1 1 1 2 1 1 1 2 1

Sum = 14 odd days 0 odd days.

Calendar for the year 2018 will be the same as for the year 2007.

Ques9: Which of the following is not a leap year?

- A. 700
- B. 800
- C. 1200
- D. 2000

Answer: Option A

Explanation:

The century divisible by 400 is a leap year.

The year 700 is not a leap year.

Ques10: On 8th Dec, 2007 Saturday falls. What day of the week was it on 8th Dec, 2006?

- A. Sunday
- B. Thursday
- C. Tuesday
- D. Friday

Answer: Option D

Explanation:

The year 2006 is an ordinary year. So, it has 1 odd day.

So, the day on 8th Dec, 2007 will be 1 day beyond the day on 8th Dec, 2006.

But, 8th Dec, 2007 is Saturday.

8th Dec, 2006 is Friday.

Ques11: January 1, 2007 was Monday. What day of the week lies on Jan. 1, 2008?

- A. Monday

- B. Tuesday
- C. Wednesday
- D. Sunday

Answer: Option B

Explanation:

The year 2007 is an ordinary year. So, it has 1 odd day.

1st day of the year 2007 was Monday.

1st day of the year 2008 will be 1 day beyond Monday.

Hence, it will be Tuesday.

Ques12: January 1, 2008 is Tuesday. What day of the week lies on Jan 1, 2009?

- A. Monday
- B. Wednesday
- C. Thursday
- D. Sunday

Answer: Option C

Explanation:

The year 2008 is a leap year. So, it has 2 odd days.

1st day of the year 2008 is Tuesday (Given)

So, 1st day of the year 2009 is 2 days beyond Tuesday.

Hence, it will be Thursday.

Ques13: On what dates of April, 2001 did Wednesday fall?

- A. 1st, 8th, 15th, 22nd, 29th
- B. 2nd, 9th, 16th, 23rd, 30th
- C. 3rd, 10th, 17th, 24th
- D. 4th, 11th, 18th, 25th

Answer: Option D

Explanation:

We shall find the day on 1st April, 2001.

1st April, 2001 = (2000 years + Period from 1.1.2001 to 1.4.2001)

Odd days in 1600 years = 0

Odd days in 400 years = 0

Jan. Feb. March April

$(31 + 28 + 31 + 1) = 91$ days 0 odd days.

Total number of odd days = $(0 + 0 + 0) = 0$

On 1st April, 2001 it was Sunday.

In April, 2001 Wednesday falls on 4th, 11th, 18th and 25th.

