



GATE

Data Science & AI



General Aptitude

QUANTITATIVE APTITUDE

Lecture No.- 02

By- Amulya Ratan Sir



Recap of Previous Lecture



Topic

Calendar



Topics to be Covered



Topic-1

Clock



[MCQ]



#Q. The GATE 2020 result was declared on March 16, 2020. What day of the week was it?

- A** Saturday
- B** Sunday
- C** Monday
- D** None

Assignment

2019 → 2

J - 3

F - 1

M - 2

6

8

2000 → 0

19 → 2

L: 4

4

8

N: 4

15

15

1 + 1 = 2

04
x 4
16

[MCQ]



#Q. Mahatma Gandhi was born on 2nd October 1869. What was the week Day?

Assignment

A

Monday

B

Thursday

C

Tuesday

D

Saturday

Handwritten calculations for Zeller's Congruence:

$1868 \rightarrow 4$ (circled in green)

$1800 \rightarrow 3$ (circled in orange)

$+2 = 6022 \text{ days}$ (written in green)

$68 \rightarrow 1$ (circled in green)

$L: 4$ (circled in orange)

$N: 4$ (circled in orange)

17 (circled in orange)

51 (circled in orange)

34 (circled in orange)

51 (circled in orange)

$6 + 2 = 8(1)$ (circled in orange)

Days of the week with Zeller's formula values:

- J - 3
- S - 2
- O - 2
- L - 4
- N - 4
- 17
- 51
- 34
- 51
- 6 + 2 = 8(1)

Handwritten calculation:

04

$\times 17$

68

[MCQ]



#Q. The day of the March 16th of any year is the same day of the week as the corresponding date in which month of the same year?

Assignment

- A** July
- B** November
- C** April
- D** September

March → 3
April → 2
May → 3
June → 2
July → 3
Aug → 3

Sep → 2
Oct → 3
→ Nov

[MCQ]



#Q. If January 1st, 1992 was a Wednesday. What day of the week was January 1st, 2003?

A

Sunday

B

Wednesday

C

Thursday

D

Friday

+0 = Wednesday

11 years

L-4

N-4

3

8

6

8

6 + 1 = 7(0)

Odd day

Assignment

92L

96L

2000L

29
MCQ
1 Mark

#Q. A person was born on fifth Monday of February in a particular year. Which one of the following statements is correct based on the above information?

AThe 2nd February of that year is a Tuesday.**B**There will be five Sundays in the month of February in that year.**C**The 1st February of that year is a Sunday.**D**

All Mondays of February in that year have even dates.

$$90\%: \frac{600}{x} = \frac{600}{x+5}$$

#Q. For the year 2019, which of the previous year's calendar can be used?

A 2011

B 2012

C 2013

D 2014

2013

2019 → 1
2018 → 1
2017 → 1
2016 → 2
2015 → 1
2014 → 1

2005 → 1
2004 → 2
2013 → 1
2003 → 1
2012 → 2
2002 → 1
2011 → 1
2010 → 1
2009 → 1
2008 → 2
2007 → 1
2006 → 1

CLOCK



Relative Speed



Relative Speed:

Same \rightarrow (-)
opposite \rightarrow (+)



$P \sim \text{O}$

$\leftarrow 60 \text{ kmph} \quad 80 \text{ kmph} \rightarrow$

Relative Speed:

1. Hands

2. Movement

3. Relative Speed

Minimum

Same

(-)

2 hands

Hour Hand (HH)
Minute Hand (MH)



2 mins Summary



Topic

~~Clock~~

Calendar Questions



THANK - YOU