

# Prepp

## Your Personal Exams Guide



NDA



CDS



SSC CGL



CBSE UGC NET



IAS



SSC CHSL



CTET



MPSC



AFCAT



CSIR UDC NET



IBPS PO



UP POLICE



SSC MTS



SBI PO



BPS



UPTET



IBPS RRB



IBPS CLERK



IES



UPSC CAPF



SSC Stenogr..



RRB NTPC



SSC GD



RBI GRADE B



RBI Assistant



DSSSB

# Puzzle Test - 02

Total Time: 20 Minute

Total Marks: 10

## Instructions

Sl No.	Section Name	No. of Question	Maximum Marks	Negative Marks	Positive Marks
1	Chapter Test	10	10	0.25	1

- 1.) A total of 20 minutes is allotted for the examination.
- 2.) The server will set your clock for you. In the top right corner of your screen, a countdown timer will display the remaining time for you to complete the exam. Once the timer reaches zero, the examination will end automatically. The paper need not be submitted when your timer reaches zero.
- 3.) There will, however, be sectional timing for this exam. You will have to complete each section within the specified time limit. Before moving on to the next section, you must complete the current one within the time limits.

Your Personal Exams Guide

## Chapter Test

1. Read the following information carefully and answer the questions that follow: (+1, -0.25)

Eight students, A, B, C, D, E, F, G and H of a cricket club have a fitness test lined in the upcoming month. Each of them has to visit the club on eight different dates (1 - 30) assigned to them wearing the code. The code is generated by writing the following colors: black, blue, white, yellow, red, pink, brown and grey in the code language in which PURPLE is coded as 88.

A got the code 29 and have to visit on 2nd. C has the code greater than 20 and less than 30 and visits on the same date as his code. D and E visit on consecutive days in the last three days of the month with 50 and 55 as their codes respectively. G got an odd code and visits on the date which is divisible by the product of the two digits of his code. The difference between F and H's code is 20. One who got the code as 72 visits on a date which is divisible by 9. B visits on the date which is the sum of the two digits of his code. One who visits on 15th got the highest code.

On which of the following dates did B visit?

- a. 19<sup>th</sup>
- b. 6<sup>th</sup>
- c. 4<sup>th</sup>
- d. 8<sup>th</sup>
- e. 11<sup>th</sup>

- 
2. Read the following information carefully and answer the questions that follow: (+1, -0.25)

Eight students, A, B, C, D, E, F, G and H of a cricket club have a fitness test lined in the upcoming month. Each of them has to visit the club on eight different dates (1 – 30) assigned to them wearing the code. The code is generated by writing the following colors: black, blue, white, yellow, red, pink, brown and grey in the code language in which PURPLE is coded as 88.

A got the code 29 and have to visit on 2nd. C has the code greater than 20 and less than 30 and visits on the same date as his code. D and E visit on consecutive days in the last three days of the month with 50 and 55 as their codes respectively. G got an odd code and visits on the date which is divisible by the product of the two digits of his code. The difference between F and H's code is 20. One who got the code as 72 visits on a date which is divisible by 9. B visits on the date which is the sum of the two digits of his code. One who visits on 15th got the highest code.

Who got 92 as the code?

- a. F
- b. H
- c. Either F or H
- d. Neither F nor H
- e. None of these

3. Read the following information carefully and answer the questions that follow: (+1, -0.25)

Eight students, A, B, C, D, E, F, G and H of a cricket club have a fitness test lined in the upcoming month. Each of them has to visit the club on eight different dates (1 – 30) assigned to them wearing the code. The code is generated by writing the following colors: black, blue, white, yellow, red, pink, brown and grey in the code language in which PURPLE is coded as 88.

A got the code 29 and have to visit on 2nd. C has the code greater than 20 and less than 30 and visits on the same date as his code. D and E visit on consecutive days in the last three days of the month with 50 and 55 as their codes respectively. G got an odd code and visits on the date which is divisible by the product of the two digits of his code. The difference between F and H's code is 20. One who got the code as 72 visits on a date which is divisible by 9. B visits on the date which is the sum of the two digits of his code. One who visits on 15th got the highest code.

What code did G get?

- a. 92
- b. 72
- c. 65
- d. 29
- e. None of theses

4. Read the following information carefully and answer the questions that follow: (+1, -0.25)

Eight students, A, B, C, D, E, F, G and H of a cricket club have a fitness test lined in the upcoming month. Each of them has to visit the club on eight different dates (1 - 30) assigned to them wearing the code. The code is generated by writing the following colors: black, blue, white, yellow, red, pink, brown and grey in the code language in which PURPLE is coded as 88.

A got the code 29 and have to visit on 2nd. C has the code greater than 20 and less than 30 and visits on the same date as his code. D and E visit on consecutive days in the last three days of the month with 50 and 55 as their codes respectively. G got an odd code and visits on the date which is divisible by the product of the two digits of his code. The difference

between F and H's code is 20. One who got the code as 72 visits on a date which is divisible by 9. B visits on the date which is the sum of the two digits of his code. One who visits on 15th got the highest code.

What is the difference between the code got by E and G?

- a. 10
- b. 17
- c. 18
- d. 15
- e. 16

- 
5. Read the following information carefully and answer the questions that follow: (+1, -0.25)

Eight students, A, B, C, D, E, F, G and H of a cricket club have a fitness test lined in the upcoming month. Each of them has to visit the club on eight different dates (1 - 30) assigned to them wearing the code. The code is generated by writing the following colors: black, blue, white, yellow, red, pink, brown and grey in the code language in which PURPLE is coded as 88.

A got the code 29 and have to visit on 2nd. C has the code greater than 20 and less than 30 and visits on the same date as his code. D and E visit on consecutive days in the last three days of the month with 50 and 55 as their codes respectively. G got an odd code and visits on the date which is divisible by the product of the two digits of his code. The difference between F and H's code is 20. One who got the code as 72 visits on a date which is divisible by 9. B visits on the date which is the sum of the two digits of his code. One who visits on 15th got the highest code.

When does D visit for the test?

- a. 28<sup>th</sup>
- b. 29<sup>th</sup>
- c. Either 28<sup>th</sup> or 29<sup>th</sup>
- d. Neither 28<sup>th</sup> nor 29<sup>th</sup>
- e. None of these

6. Direction (1 – 5): Study the given information and answer the following questions. (+1, -0.25)

A family of 10 members D, E, F, G, H, P, Q, R, S, and T comprises of three generations. They all graduated from college in different years, 1995, 1997, 2000, 2002, 2003, 2005, 2008, 2014, 2015 and 2017.

E is the son in law of F who has only two daughters. H is the brother in law of S who is the maternal aunt of G. R is the paternal aunt of P who is graduated 6 years after her. The difference between the graduating year of H and his spouse is the same as the difference between the graduating year of S and her spouse, i.e. 3 years. T is graduated 2 years after his brother and 20 years after his maternal grandmother Q. Only G and T are children of D who is the sister in law of E. G is graduated in the year 2015. R is graduated in the leap year after 2001. D did not graduate in the leap year. P is the only maternal granddaughter of F. E's spouse graduated in the year that is an odd multiple of 5. The person graduated earliest does not belong to the second generation.

In which year did D graduate?

- a. 1995
- b. 2003
- c. 2005

d. 2015

e. 2014

7. Direction (1 – 5): Study the given information and answer the following questions. (+1, -0.25)

A family of 10 members D, E, F, G, H, P, Q, R, S, and T comprises of three generations. They all graduated from college in different years, 1995, 1997, 2000, 2002, 2003, 2005, 2008, 2014, 2015 and 2017.

E is the son in law of F who has only two daughters. H is the brother in law of S who is the maternal aunt of G. R is the paternal aunt of P who is graduated 6 years after her. The difference between the graduating year of H and his spouse is the same as the difference between the graduating year of S and her spouse, i.e. 3 years. T is graduated 2 years after his brother and 20 years after his maternal grandmother Q. Only G and T are children of D who is the sister in law of E. G is graduated in the year 2015. R is graduated in the leap year after 2001. D did not graduate in the leap year. P is the only maternal granddaughter of F. E's spouse graduated in the year that is an odd multiple of 5. The person graduated earliest does not belong to the second generation.

Who is the cousin of G?

a. Q

b. H

c. T

d. F

e. P

8. Direction (1 – 5): Study the given information and answer the following questions. (+1, -0.25)

A family of 10 members D, E, F, G, H, P, Q, R, S, and T comprises of three generations. They all graduated from college in different years, 1995, 1997, 2000, 2002, 2003, 2005, 2008, 2014, 2015 and 2017.

E is the son in law of F who has only two daughters. H is the brother in law of S who is the maternal aunt of G. R is the paternal aunt of P who is graduated 6 years after her. The difference between the graduating year of H and his spouse is the same as the difference between the graduating year of S and her spouse, i.e. 3 years. T is graduated 2 years after his brother and 20 years after his maternal grandmother Q. Only G and T are children of D who is the sister in law of E. G is graduated in the year 2015. R is graduated in the leap year after 2001. D did not graduate in the leap year. P is the only maternal granddaughter of F. E's spouse graduated in the year that is an odd multiple of 5. The person graduated earliest does not belong to the second generation.

How many male and female members are there in the family?

- a. 4, 6
- b. 6, 4
- c. 5, 5
- d. 3, 7
- e. 7, 3

9. Direction (1 – 5): Study the given information and answer the following questions. (+1, -0.25)

A family of 10 members D, E, F, G, H, P, Q, R, S, and T comprises of three generations. They all graduated from college in different years, 1995, 1997,

2000, 2002, 2003, 2005, 2008, 2014, 2015 and 2017.

E is the son in law of F who has only two daughters. H is the brother in law of S who is the maternal aunt of G. R is the paternal aunt of P who is graduated 6 years after her. The difference between the graduating year of H and his spouse is the same as the difference between the graduating year of S and her spouse, i.e. 3 years. T is graduated 2 years after his brother and 20 years after his maternal grandmother Q. Only G and T are children of D who is the sister in law of E. G is graduated in the year 2015. R is graduated in the leap year after 2001. D did not graduate in the leap year. P is the only maternal granddaughter of F. E's spouse graduated in the year that is an odd multiple of 5. The person graduated earliest does not belong to the second generation.

Who is the uncle of P?

- a. E
- b. F
- c. H
- d. D
- e. G

10. Direction (1 – 5): Study the given information and answer the following questions. (+1, -0.25)

A family of 10 members D, E, F, G, H, P, Q, R, S, and T comprises of three generations. They all graduated from college in different years, 1995, 1997, 2000, 2002, 2003, 2005, 2008, 2014, 2015 and 2017.

E is the son in law of F who has only two daughters. H is the brother in law of S who is the maternal aunt of G. R is the paternal aunt of P who is graduated 6 years after her. The difference between the graduating year

of H and his spouse is the same as the difference between the graduating year of S and her spouse, i.e. 3 years. T is graduated 2 years after his brother and 20 years after his maternal grandmother Q. Only G and T are children of D who is the sister in law of E. G is graduated in the year 2015. R is graduated in the leap year after 2001. D did not graduate in the leap year. P is the only maternal granddaughter of F. E's spouse graduated in the year that is an odd multiple of 5. The person graduated earliest does not belong to the second generation.

In which year did Q graduate?

- a. 1997
- b. 1995
- c. 2015
- d. 2017
- e. 2002



## Answers

### 1. Answer: c

#### Explanation:

**Student:** A, B, C, D, E, F, G, H

**Date:** 1<sup>st</sup> to 30<sup>th</sup>

**Code:** 29, 40, 65, 92, 27, 50, 72, 55

According to the given coding language,

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13

Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

P	U	R	P	L	E	Code
16	21	18	16	12	5	88

Similarly,

B	L	A	C	K	Code
2	12	1	3	11	29

B	L	U	E	Code
2	12	21	5	40

W	H	I	T	E	Code
23	8	9	20	5	65

Y	E	L	L	O	W	Code
25	5	12	12	15	23	92

R	E	D	Code
18	5	4	27

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P	I	N	K	Code
16	9	14	11	50

B	R	O	W	N	Code
2	18	15	23	14	72

G	R	E	Y	Code
7	18	5	25	55

1) A got the code 29 and have to visit on 2<sup>nd</sup>.

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Student	Date	Code
A	2 <sup>nd</sup>	29 (Black)
B		
C		
D		
E		
F		
G		
H		

2) C has the code greater than 20 and less than 30 and visits on the same date as his code.

(Since the only code which lies between 20 and 30 is 27 other than 29 given to A.)

Student	Date	Code
A	2 <sup>nd</sup>	29 (Black)
B		
C	27 <sup>th</sup>	27 (Red)
D		
E		
F		
G		
H		

3) D and E visit on consecutive days in the last three days of the month with 50 and 55 as their codes respectively.

(Since the consecutive days could be 28<sup>th</sup> and 29<sup>th</sup> or 29<sup>th</sup> and 30<sup>th</sup>.)

Student	Date	Code
A	2 <sup>nd</sup>	29 (Black)
B		
C	27 <sup>th</sup>	27 (Red)
D	28/29 or 29/30	50 (Pink)
E	28/29 or 29/30	55 (Grey)
F		
G		
H		

4) G got an odd code and visits on the date which is divisible by the product of the two digits of his code.

(Since, 65 is the only odd code left and their product is 30. Thus, 30<sup>th</sup> is the date.)

Student	Date	Code
A	2 <sup>nd</sup>	29 (Black)
B		
C	27 <sup>th</sup>	27 (Red)
D	28 <sup>th</sup> / 29 <sup>th</sup>	50 (Pink)
E	28 <sup>th</sup> / 29 <sup>th</sup>	55 (Grey)
F		
G	30 <sup>th</sup>	65 (White)
H		

5) The difference between F and H's code is 20.

(Since, only 92 and 72 are the two codes which differ by 20. So, F and H get either of 92 or 72.)

Student	Date	Code
A	2 <sup>nd</sup>	29 (Black)
B		
C	27 <sup>th</sup>	27 (Red)
D	28 <sup>th</sup> / 29 <sup>th</sup>	50 (Pink)
E	28 <sup>th</sup> / 29 <sup>th</sup>	55 (Grey)
F		92 (Yellow) / 72 (Brown)
G	30 <sup>th</sup>	65 (White)
H		92 (Yellow) / 72 (Brown)

6) One who got the code as 72 visits on a date which is divisible by 9. One who visits on 15<sup>th</sup> got the highest code.

(Since, 9<sup>th</sup>, 18<sup>th</sup> and 27<sup>th</sup> are the three dates divisible by 9 but 27<sup>th</sup> is when C visits. So, one who got the code as 72 got either of 9<sup>th</sup> or 18<sup>th</sup> .

Also, since, one who visits on 15<sup>th</sup> got the highest code. So, 92 is the code got by the person who visits on 15<sup>th</sup> .)

Student	Date	Code
A	2 <sup>nd</sup>	29 (Black)
B		
C	27 <sup>th</sup>	27 (Red)
D	28 <sup>th</sup> / 29 <sup>th</sup>	50 (Pink)
E	28 <sup>th</sup> / 29 <sup>th</sup>	55 (Grey)
F	15 <sup>th</sup> / 9 <sup>th</sup> / 18 <sup>th</sup>	92 (Yellow) / 72 (Brown)
G	30 <sup>th</sup>	65 (White)
H	15 <sup>th</sup> / 9 <sup>th</sup> / 18 <sup>th</sup>	92 (Yellow) / 72 (Brown)

7) B visits on the date which is the sum of the two digits of his code.

Since 40 is the only code remaining and the sum of the digits is 4. So, B got 40 as the code and visits on 4<sup>th</sup>.

Student	Date	Code
A	2 <sup>nd</sup>	29 (Black)
B	4 <sup>th</sup>	40 (Blue)
C	27 <sup>th</sup>	27 (Red)
D	28 <sup>th</sup> / 29 <sup>th</sup>	50 (Pink)
E	28 <sup>th</sup> / 29 <sup>th</sup>	55 (Grey)
F	15 <sup>th</sup> / 9 <sup>th</sup> / 18 <sup>th</sup>	92 (Yellow) / 72 (Brown)
G	30 <sup>th</sup>	65 (White)
H	15 <sup>th</sup> / 9 <sup>th</sup> / 18 <sup>th</sup>	92 (Yellow) / 72 (Brown)

Thus, B visits on 4<sup>th</sup>.

## 2. Answer: c

### Explanation:

Student: A, B, C, D, E, F, G, H

Date: 1<sup>st</sup> to 30<sup>th</sup>

Code: 29, 40, 65, 92, 27, 50, 72, 55

According to the given coding language,

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13

Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

P	U	R	P	L	E	Code
16	21	18	16	12	5	88

Similarly,

B	L	A	C	K	Code
2	12	1	3	11	29

B	L	U	E	Code
2	12	21	5	40

W	H	I	T	E	Code
23	8	9	20	5	65

Y	E	L	L	O	W	Code
25	5	12	12	15	23	92

R	E	D	Code
18	5	4	27

P	I	N	K	Code
16	9	14	11	50

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B	R	O	W	N	Code
2	18	15	23	14	72

G	R	E	Y	Code
7	18	5	25	55

1) A got the code 29 and have to visit on 2 nd .



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Student	Date	Code
A	2 nd	29 (Black)
B		
C		
D		
E		
F		
G		
H		

2) C has the code greater than 20 and less than 30 and visits on the same date as his code.

(Since the only code which lies between 20 and 30 is 27 other than 29 given to A.)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D		
E		
F		
G		
H		

3) D and E visit on consecutive days in the last three days of the month with 50 and 55 as their codes respectively.

(Since the consecutive days could be 28 th and 29 th or 29 th and 30 th.)

Student	Date	Code
A	2 <sup>nd</sup>	29 (Black)
B		
C	27 <sup>th</sup>	27 (Red)
D	28/29 or 29/30	50 (Pink)
E	28/29 or 29/30	55 (Grey)
F		
G		
H		

4) G got an odd code and visits on the date which is divisible by the product of the two digits of his code.

(Since, 65 is the only odd code left and their product is 30. Thus, 30<sup>th</sup> is the date.)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D	28 th / 29 th	50 (Pink)
E	28 th / 29 th	55 (Grey)
F		
G	30 th	65 (White)
H		

5) The difference between F and H's code is 20.

(Since, only 92 and 72 are the two codes which differ by 20. So, F and H get either of 92 or 72.)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D	28 th / 29 th	50 (Pink)
E	28 th / 29 th	55 (Grey)
F		92 (Yellow) / 72 (Brown)
G	30 th	65 (White)
H		92 (Yellow) / 72 (Brown)

6) One who got the code as 72 visits on a date which is divisible by 9. One who visits on 15th got the highest code.

(Since, 9 th , 18 th and 27 th are the three dates divisible by 9 but 27 th is when C visits. So, one who got the code as 72 got either of 9 th or 18 th .

Also, since, one who visits on 15 th got the highest code. So, 92 is the code got by the person who visits on 15 th .)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D	28 th / 29 th	50 (Pink)
E	28 th / 29 th	55 (Grey)
F	15 th / 9 th / 18 th	92 (Yellow) / 72 (Brown)
G	30 th	65 (White)
H	15 th / 9 th / 18 th	92 (Yellow) / 72 (Brown)

7) B visits on the date which is the sum of the two digits of his code.

Since 40 is the only code remaining and the sum of the digits is 4. So, B got 40 as the code and visits on 4 th .

Student	Date	Code
A	2 nd	29 (Black)
B	4 th	40 (Blue)
C	27 th	27 (Red)
D	28 th / 29 th	50 (Pink)
E	28 th / 29 th	55 (Grey)
F	15 th / 9 th / 18 th	92 (Yellow) / 72 (Brown)
G	30 th	65 (White)
H	15 th / 9 th / 18 th	92 (Yellow) / 72 (Brown)

Thus, either of F or H got the code 92.

### 3. Answer: c

#### Explanation:

Student: A, B, C, D, E, F, G, H

Date: 1<sup>st</sup> to 30<sup>th</sup>

Code: 29, 40, 65, 92, 27, 50, 72, 55

According to the given coding language,

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13

Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

P	U	R	P	L	E	Code
16	21	18	16	12	5	88

Similarly,

B	L	A	C	K	Code
2	12	1	3	11	29

B	L	U	E	Code
2	12	21	5	40

W	H	I	T	E	Code
23	8	9	20	5	65

Y	E	L	L	O	W	Code
25	5	12	12	15	23	92

R	E	D	Code
18	5	4	27

P	I	N	K	Code
16	9	14	11	50

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B	R	O	W	N	Code
2	18	15	23	14	72

G	R	E	Y	Code
7	18	5	25	55

1) A got the code 29 and have to visit on 2 nd .



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Student	Date	Code
A	2 nd	29 (Black)
B		
C		
D		
E		
F		
G		
H		

2) C has the code greater than 20 and less than 30 and visits on the same date as his code.

(Since the only code which lies between 20 and 30 is 27 other than 29 given to A.)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D		
E		
F		
G		
H		

3) D and E visit on consecutive days in the last three days of the month with 50 and 55 as their codes respectively.

(Since the consecutive days could be 28 th and 29 th or 29 th and 30 th.)

Student	Date	Code
A	2 <sup>nd</sup>	29 (Black)
B		
C	27 <sup>th</sup>	27 (Red)
D	28/29 or 29/30	50 (Pink)
E	28/29 or 29/30	55 (Grey)
F		
G		
H		

4) G got an odd code and visits on the date which is divisible by the product of the two digits of his code.

(Since, 65 is the only odd code left and their product is 30. Thus, 30<sup>th</sup> is the date.)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D	28 th / 29 th	50 (Pink)
E	28 th / 29 th	55 (Grey)
F		
G	30 th	65 (White)
H		

5) The difference between F and H's code is 20.

(Since, only 92 and 72 are the two codes which differ by 20. So, F and H get either of 92 or 72.)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D	28 th / 29 th	50 (Pink)
E	28 th / 29 th	55 (Grey)
F		92 (Yellow) / 72 (Brown)
G	30 th	65 (White)
H		92 (Yellow) / 72 (Brown)

6) One who got the code as 72 visits on a date which is divisible by 9. One who visits on 15th got the highest code.

(Since, 9 th , 18 th and 27 th are the three dates divisible by 9 but 27 th is when C visits. So, one who got the code as 72 got either of 9 th or 18 th .

Also, since, one who visits on 15 th got the highest code. So, 92 is the code got by the person who visits on 15 th .)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D	28 th / 29 th	50 (Pink)
E	28 th / 29 th	55 (Grey)
F	15 th / 9 th / 18 th	92 (Yellow) / 72 (Brown)
G	30 th	65 (White)
H	15 th / 9 th / 18 th	92 (Yellow) / 72 (Brown)

7) B visits on the date which is the sum of the two digits of his code.

Since 40 is the only code remaining and the sum of the digits is 4. So, B got 40 as the code and visits on 4 th .

Student	Date	Code
A	2 nd	29 (Black)
B	4 th	40 (Blue)
C	27 th	27 (Red)
D	28 th / 29 th	50 (Pink)
E	28 th / 29 th	55 (Grey)
F	15 th / 9 th / 18 th	92 (Yellow) / 72 (Brown)
G	30 th	65 (White)
H	15 th / 9 th / 18 th	92 (Yellow) / 72 (Brown)

Thus, G got 65 as the code.

#### 4. Answer: a

#### Explanation:

Student: A, B, C, D, E, F, G, H

Date: 1<sup>st</sup> to 30<sup>th</sup>

Code: 29, 40, 65, 92, 27, 50, 72, 55

According to the given coding language,

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13

Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

P	U	R	P	L	E	Code
16	21	18	16	12	5	88

Similarly,

B	L	A	C	K	Code
2	12	1	3	11	29

B	L	U	E	Code
2	12	21	5	40

W	H	I	T	E	Code
23	8	9	20	5	65

Y	E	L	L	O	W	Code
25	5	12	12	15	23	92

R	E	D	Code
18	5	4	27

P	I	N	K	Code
16	9	14	11	50

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B	R	O	W	N	Code
2	18	15	23	14	72

G	R	E	Y	Code
7	18	5	25	55

1) A got the code 29 and have to visit on 2 nd.



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Student	Date	Code
A	2 <sup>nd</sup>	29 (Black)
B		
C		
D		
E		
F		
G		
H		

2) C has the code greater than 20 and less than 30 and visits on the same date as his code.

(Since the only code which lies between 20 and 30 is 27 other than 29 given to A.)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D		
E		
F		
G		
H		

3) D and E visit on consecutive days in the last three days of the month with 50 and 55 as their codes respectively.

(Since the consecutive days could be 28 th and 29 th or 29 th and 30 th .)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D	28/29 or 29/30	50 (Pink)
E	28/29 or 29/30	55 (Grey)
F		
G		
H		

4) G got an odd code and visits on the date which is divisible by the product of the two digits of his code.

(Since, 65 is the only odd code left and their product is 30. Thus, 30 th is the date.)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D	28 th / 29 th	50 (Pink)
E	28 th / 29 th	55 (Grey)
F		
G	30 th	65 (White)
H		

5) The difference between F and H's code is 20.

(Since, only 92 and 72 are the two codes which differ by 20. So, F and H get either of 92 or 72.)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D	28 th / 29 th	50 (Pink)
E	28 th / 29 th	55 (Grey)
F		92 (Yellow) / 72 (Brown)
G	30 th	65 (White)
H		92 (Yellow) / 72 (Brown)

6) One who got the code as 72 visits on a date which is divisible by 9. One who visits on 15th got the highest code.

(Since, 9 th , 18 th and 27 th are the three dates divisible by 9 but 27 th is when C visits. So, one who got the code as 72 got either of 9 th or 18 th .

Also, since, one who visits on 15 th got the highest code. So, 92 is the code got by the person who visits on 15 th .)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D	28 th / 29 th	50 (Pink)
E	28 th / 29 th	55 (Grey)
F	15 th / 9 th / 18 th	92 (Yellow) / 72 (Brown)
G	30 th	65 (White)
H	15 th / 9 th / 18 th	92 (Yellow) / 72 (Brown)

7) B visits on the date which is the sum of the two digits of his code.

Since 40 is the only code remaining and the sum of the digits is 4. So, B got 40 as the code and visits on 4 th .

Student	Date	Code
A	2 nd	29 (Black)
B	4 th	40 (Blue)
C	27 th	27 (Red)
D	28 th / 29 th	50 (Pink)
E	28 th / 29 th	55 (Grey)
F	15 th / 9 th / 18 th	92 (Yellow) / 72 (Brown)
G	30 th	65 (White)
H	15 th / 9 th / 18 th	92 (Yellow) / 72 (Brown)

Thus, 10 is the difference between the codes.

**5. Answer: c**

**Explanation:**

Student: A, B, C, D, E, F, G, H

Date: 1<sup>st</sup> to 30<sup>th</sup>

Code: 29, 40, 65, 92, 27, 50, 72, 55

According to the given coding language,

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13

Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

P	U	R	P	L	E	Code
16	21	18	16	12	5	88

Similarly,

B	L	A	C	K	Code
2	12	1	3	11	29

B	L	U	E	Code
2	12	21	5	40

W	H	I	T	E	Code
23	8	9	20	5	65

Y	E	L	L	O	W	Code
25	5	12	12	15	23	92

R	E	D	Code
18	5	4	27

P	I	N	K	Code
16	9	14	11	50

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B	R	O	W	N	Code
2	18	15	23	14	72

G	R	E	Y	Code
7	18	5	25	55

1) A got the code 29 and have to visit on 2 nd.



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Student	Date	Code
A	2 <sup>nd</sup>	29 (Black)
B		
C		
D		
E		
F		
G		
H		

2) C has the code greater than 20 and less than 30 and visits on the same date as his code.

(Since the only code which lies between 20 and 30 is 27 other than 29 given to A.)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D		
E		
F		
G		
H		

3) D and E visit on consecutive days in the last three days of the month with 50 and 55 as their codes respectively.

(Since the consecutive days could be 28 th and 29 th or 29 th and 30 th.)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D	28/29 or 29/30	50 (Pink)
E	28/29 or 29/30	55 (Grey)
F		
G		
H		

4) G got an odd code and visits on the date which is divisible by the product of the two digits of his code.

(Since, 65 is the only odd code left and their product is 30. Thus, 30 th is the date.)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D	28 th / 29 th	50 (Pink)
E	28 th / 29 th	55 (Grey)
F		
G	30 th	65 (White)
H		

5) The difference between F and H's code is 20.

(Since, only 92 and 72 are the two codes which differ by 20. So, F and H get either of 92 or 72.)

Student	Date	Code
A	2 <sup>nd</sup>	29 (Black)
B		
C	27 <sup>th</sup>	27 (Red)
D	28 <sup>th</sup> / 29 <sup>th</sup>	50 (Pink)
E	28 <sup>th</sup> / 29 <sup>th</sup>	55 (Grey)
F		92 (Yellow) / 72 (Brown)
G	30 <sup>th</sup>	65 (White)
H		92 (Yellow) / 72 (Brown)

6) One who got the code as 72 visits on a date which is divisible by 9. One who visits on 15<sup>th</sup> got the highest code.

(Since, 9<sup>th</sup>, 18<sup>th</sup> and 27<sup>th</sup> are the three dates divisible by 9 but 27<sup>th</sup> is when C visits. So, one who got the code as 72 got either of 9<sup>th</sup> or 18<sup>th</sup>.)

Also, since, one who visits on 15<sup>th</sup> got the highest code. So, 92 is the code got by the person who visits on 15<sup>th</sup>.)

Student	Date	Code
A	2 nd	29 (Black)
B		
C	27 th	27 (Red)
D	28 th / 29 th	50 (Pink)
E	28 th / 29 th	55 (Grey)
F	15 th / 9 th / 18 th	92 (Yellow) / 72 (Brown)
G	30 th	65 (White)
H	15 th / 9 th / 18 th	92 (Yellow) / 72 (Brown)

7) B visits on the date which is the sum of the two digits of his code.

Since 40 is the only code remaining and the sum of the digits is 4. So, B got 40 as the code and visits on 4 th .

Student	Date	Code
A	2 <sup>nd</sup>	29 (Black)
B	4 <sup>th</sup>	40 (Blue)
C	27 <sup>th</sup>	27 (Red)
D	28 <sup>th</sup> / 29 <sup>th</sup>	50 (Pink)
E	28 <sup>th</sup> / 29 <sup>th</sup>	55 (Grey)
F	15 <sup>th</sup> / 9 <sup>th</sup> / 18 <sup>th</sup>	92 (Yellow) / 72 (Brown)
G	30 <sup>th</sup>	65 (White)
H	15 <sup>th</sup> / 9 <sup>th</sup> / 18 <sup>th</sup>	92 (Yellow) / 72 (Brown)

Thus, D visits on either 28<sup>th</sup> or 29<sup>th</sup>.

**6. Answer: b**

**Explanation:**

From the given information,

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married couple
—	Siblings
	Difference of a generation

1) G is graduated in the year 2015.

2) R is graduated in the leap year after 2001.

So there is only one possibility for R i.e. R is graduated in 2015.

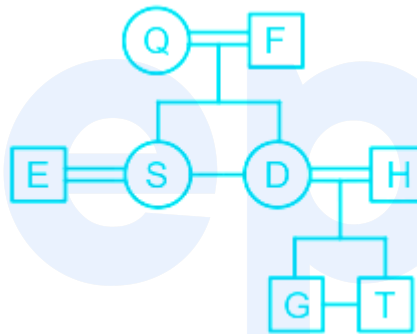
3) E is the son in law of F who has only two daughters.

4) Only G and T are children of D who is the sister in law of E.

5) T is graduated 2 years after his brother and 20 years after his maternal grandmother Q.

6) H is the brother in law of S who is the maternal aunt of G.

Name	Year of Graduation
D	
E	
F	
G	2015
H	
P	
Q	1997
R	2008
S	
T	2017



7) R is the paternal aunt of P who graduated 6 years after her.

So, P is graduated in the year of  $2008 + 6 = 2014$

8) P is the only maternal granddaughter of F.

9) The person graduated earliest does not belong to the second generation.

So the person who is graduated earliest is F and the year is 1995.

12) E's spouse graduated in the year that is an odd multiple of 5.

So, S graduated in the year 2005.

13) The difference between the graduating year of H and his spouse is the same as the difference between the graduating year of S and her spouse.

So, the remaining years are 2000, 2003 and 2002 as we know that the graduate year of S is 2005 so there are enough chances the year of D and H must be either 2003 or 2000 as E is graduated in 2002.

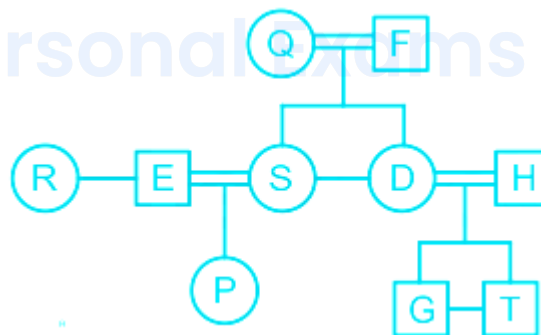
So the difference is 3 years.

14) D did not graduate in the leap year.

So D is graduated in 2003 and hence H is 2000.

Name	Year of Graduation
D	2003
E	2002
F	1995
G	2015
H	2000
P	2014
Q	1997
R	2008
S	2005
T	2017

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So, the graduating year of D is **2003**.

7. Answer: e

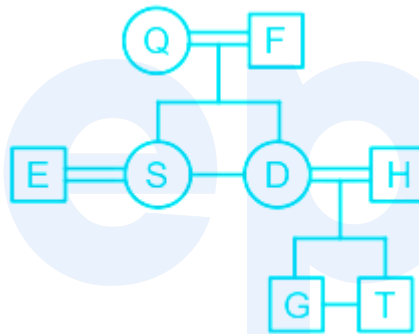
Explanation:

From the given information,

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married couple
—	Siblings
	Difference of a generation

- 1) G is graduated in the year 2015.
- 2) R is graduated in the leap year after 2001.  
So there is only one possibility for R i.e. R is graduated in 2015.
- 3) E is the son in law of F who has only two daughters.
- 4) Only G and T are children of D who is the sister in law of E.
- 5) T is graduated 2 years after his brother and 20 years after his maternal grandmother Q.
- 6) H is the brother in law of S who is the maternal aunt of G.

Name	Year of Graduation
D	
E	
F	
G	2015
H	
P	
Q	1997
R	2008
S	
T	2017



7) R is the paternal aunt of P who graduated 6 years after her.

So, P is graduated in the year of  $2008 + 6 = 2014$

8) P is the only maternal granddaughter of F.

9) The person graduated earliest does not belong to the second generation.

So the person who is graduated earliest is F and the year is 1995.

12) E's spouse graduated in the year that is an odd multiple of 5.

So, S graduated in the year 2005.

13) The difference between the graduating year of H and his spouse is the same as the difference between the graduating year of S and her spouse.

So, the remaining years are 2000, 2003 and 2002 as we know that the graduate year of S is 2005 so there are enough chances the year of D and H must be either 2003 or 2000 as E is graduated in 2002.

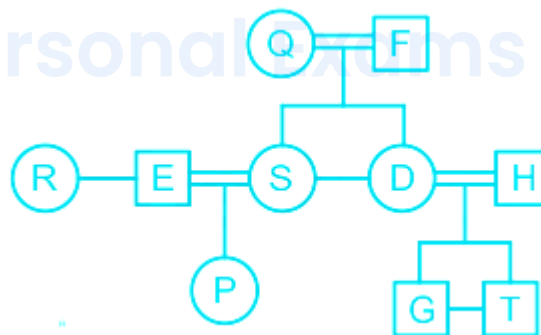
So the difference is 3 years.

14) D did not graduate in the leap year.

So D is graduated in 2003 and hence H is 2000.

Name	Year of Graduation
D	2003
E	2002
F	1995
G	2015
H	2000
P	2014
Q	1997
R	2008
S	2005
T	2017

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So, P is the cousin of G.

8. Answer: c

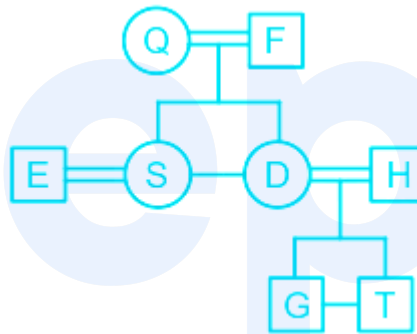
Explanation:

From the given information,

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married couple
—	Siblings
	Difference of a generation

- 1) G is graduated in the year 2015.
- 2) R is graduated in the leap year after 2001.  
So there is only one possibility for R i.e. R is graduated in 2015.
- 3) E is the son in law of F who has only two daughters.
- 4) Only G and T are children of D who is the sister in law of E.
- 5) T is graduated 2 years after his brother and 20 years after his maternal grandmother Q.
- 6) H is the brother in law of S who is the maternal aunt of G.

Name	Year of Graduation
D	
E	
F	
G	2015
H	
P	
Q	1997
R	2008
S	
T	2017



7) R is the paternal aunt of P who graduated 6 years after her.

So, P is graduated in the year of  $2008 + 6 = 2014$

8) P is the only maternal granddaughter of F.

9) The person graduated earliest does not belong to the second generation.

So the person who is graduated earliest is F and the year is 1995.

12) E's spouse graduated in the year that is an odd multiple of 5.

So, S graduated in the year 2005.

13) The difference between the graduating year of H and his spouse is the same as the difference between the graduating year of S and her spouse.

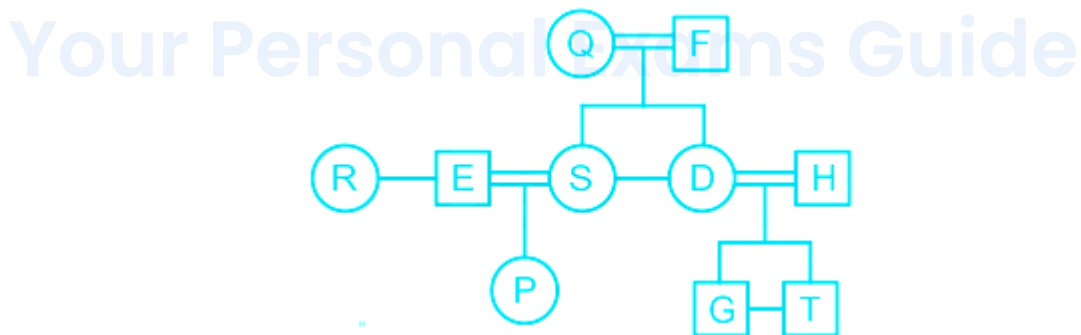
So, the remaining years are 2000, 2003 and 2002 as we know that the graduate year of S is 2005 so there are enough chances the year of D and H must be either 2003 or 2000 as E is graduated in 2002.

So the difference is 3 years.

14) D did not graduate in the leap year.

So D is graduated in 2003 and hence H is 2000.

Name	Year of Graduation
D	2003
E	2002
F	1995
G	2015
H	2000
P	2014
Q	1997
R	2008
S	2005
T	2017



So, there are **5 male and 5 female** members of the family.

9. Answer: c

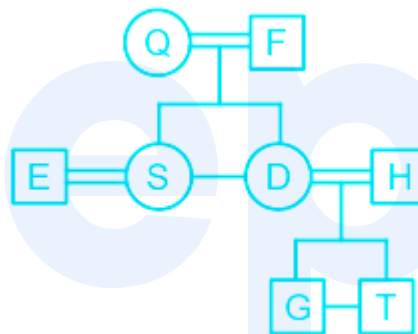
Explanation:

From the given information,

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married couple
—	Siblings
	Difference of a generation

- 1) G is graduated in the year 2015.
- 2) R is graduated in the leap year after 2001.  
So there is only one possibility for R i.e. R is graduated in 2015.
- 3) E is the son in law of F who has only two daughters.
- 4) Only G and T are children of D who is the sister in law of E.
- 5) T is graduated 2 years after his brother and 20 years after his maternal grandmother Q.
- 6) H is the brother in law of S who is the maternal aunt of G.

Name	Year of Graduation
D	
E	
F	
G	2015
H	
P	
Q	1997
R	2008
S	
T	2017



7) R is the paternal aunt of P who graduated 6 years after her.

So, P is graduated in the year of  $2008 + 6 = 2014$

8) P is the only maternal granddaughter of F.

9) The person graduated earliest does not belong to the second generation.

So the person who is graduated earliest is F and the year is 1995.

12) E's spouse graduated in the year that is an odd multiple of 5.

So, S graduated in the year 2005.

13) The difference between the graduating year of H and his spouse is the same as the difference between the graduating year of S and her spouse.

So, the remaining years are 2000, 2003 and 2002 as we know that the graduate year of S is 2005 so there are enough chances the year of D and H must be either 2003 or 2000 as E is graduated in 2002.

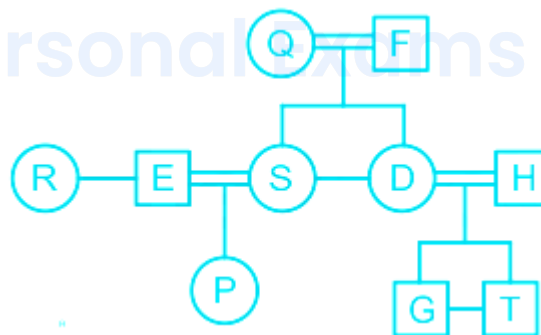
So the difference is 3 years.

14) D did not graduate in the leap year.

So D is graduated in 2003 and hence H is 2000.

Name	Year of Graduation
D	2003
E	2002
F	1995
G	2015
H	2000
P	2014
Q	1997
R	2008
S	2005
T	2017

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So, His the uncle of P

10. Answer: a

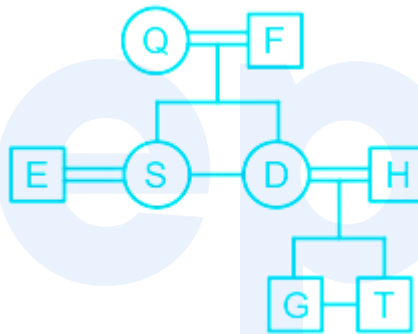
Explanation:

From the given information,

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married couple
—	Siblings
	Difference of a generation

- 1) G is graduated in the year 2015.
- 2) R is graduated in the leap year after 2001.  
So there is only one possibility for R i.e. R is graduated in 2015.
- 3) E is the son in law of F who has only two daughters.
- 4) Only G and T are children of D who is the sister in law of E.
- 5) T is graduated 2 years after his brother and 20 years after his maternal grandmother Q.
- 6) H is the brother in law of S who is the maternal aunt of G.

Name	Year of Graduation
D	
E	
F	
G	2015
H	
P	
Q	1997
R	2008
S	
T	2017



7) R is the paternal aunt of P who graduated 6 years after her.

So, P is graduated in the year of  $2008 + 6 = 2014$

8) P is the only maternal granddaughter of F.

9) The person graduated earliest does not belong to the second generation.

So the person who is graduated earliest is F and the year is 1995.

12) E's spouse graduated in the year that is an odd multiple of 5.

So, S graduated in the year 2005.

13) The difference between the graduating year of H and his spouse is the same as the difference between the graduating year of S and her spouse.

So, the remaining years are 2000, 2003 and 2002 as we know that the graduate year of S is 2005 so there are enough chances the year of D and H must be either 2003 or 2000 as E is graduated in 2002.

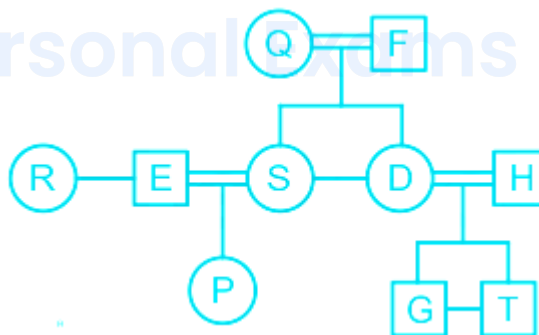
So the difference is 3 years.

14) D did not graduate in the leap year.

So D is graduated in 2003 and hence H is 2000.

Name	Year of Graduation
D	2003
E	2002
F	1995
G	2015
H	2000
P	2014
Q	1997
R	2008
S	2005
T	2017

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So, the graduating year of Q was **1997**.