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IBPS RRB PO Pre 2022 21st Aug Memory Based (PDF in English)

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Direction: Study the following information carefully and answer the following question.

Seven People i.e. A, B, C, D, E, F, and G live in an seven-floor building. The lowermost floor is numbered as 1, the floor above it numbered as 2 so on till the last floor which is numbered as 7. They all like to play seven different musical instruments i.e., Guitar, Tabla, Piano, Violin, Drum, Flute and Sitar. All the information is not necessarily in the same order.

B lives on an odd numbered floor above floor number 4. Two people live between B and the one who likes Guitar. The one who likes Sitar lives just below the one who likes Guitar. Number of people live below the one who likes Sitar is same as the number of people live above D. Three people lives between the one who likes Tabla and D. Two people live between The one who likes Tabla and E. G lives just above the one who likes Piano. Three people live between the one who likes Piano and the one who likes Violin. A lives just above the one who likes Drum. C does not like Piano.

1. Who likes Flute?
A. B
B. A
C. D
D. E
E. None of these

2.How many people lives below the one who likes Drum?
A. One
B. Three
C. Four
D. None
E. Two

3.How many people lives between G and the one who likes Tabla?
A. Two
B. None
C. One
D. Three
E. Four

4.D likes which of the following instrument?
A. Flute
B. Violin
C. Sitar
D. Drum
E. None of the above

5.Number of people live above the one who likes Tabla is same as number of people lives below the one who likes ____.
A. Drum
B. Guitar
C. Flute
D. Sitar
E. None of the above

Direction: In the question below are given three statements followed by two conclusions which are numbered as I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read

all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

6. **Statement:**
All Mouse is Rat
Only a few Rat is Ant
No Ant is Mud
Conclusion:
I. No Mouse is Ant
II. Some Rat being Mud is a Possibility
A. Only I follows
B. Only II follows
C. Both I and II follow
D. Either I or II follows
E. Neither I nor II follows

7. **Statement:**
Some Paper is Tree
All Tree is Door
Some Door is Wood
Conclusion:
I. No Paper is Wood
II. Some Wood is Paper
A. Only I follows
B. Only II follows
C. Both I and II follow
D. Either I or II follows
E. Neither I nor II follows

8. **Statement:**
Some White is Clean
All Clean is Ride
All Ride is Black
Conclusion:
I. Some White is Ride
II. Some White is Black

A. Only I follows
B. Only II follows
C. Both I and II follow
D. Either I or II follows
E. Neither I nor II follows

9. **Statement:**
No Glass is Clean
All Lens is Clean
Some Lens is Gap
Conclusion:
I. Some Lens is not Glass
II. No Gap is Glass
A. Only I follows
B. Only II follows
C. Both I and II follow
D. Either I or II follows
E. Neither I nor II follows

10.How many such pairs of letters are there in the word **COMPUTER**, each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English alphabetical series?
A. Three
B. One
C. More than three
D. None
E. Two

Direction: Study the following information carefully and answer the given questions.
The given line graph shows the production and number of items sold of 5 companies Lenovo, Bloomberg, HP, IBM and Dell in a particular year.
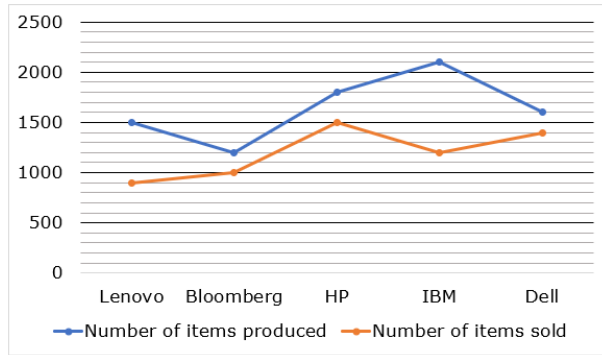
11. Number of items produced by IBM is what percentage more than the number of items sold by HP?
A. 75%
B. 45%
C. 40%
D. 33.33%
E. None of these

12.What is the average number of items produced by all five companies?
A. 1640
B. 1525
C. 1472
D. 1720
E. None of these

13.If the ratio of number of number of items produced by the Dell to the number of items produced by an another company Microsoft is 5 : 8 and the number of items sold by Microsoft is 35% more than the number of items produced by Bloomberg, what is the difference between the number of items produced and sold by Microsoft?
A. 1225
B. 845
C. 1210

D. 1050
E. None of these

14.If the number of items produced by Lenovo increased by 20% and number of items sold by the Dell is decreased by 10%, then what will be the ratio of the number of items sold by Dell to the number of items produced by lenovo?
A. 8 : 11
B. 4 : 5
C. 5 : 9
D. 7 : 10
E. 10 : 7

15.A shopkeeper gives a discount of 10% on marked price and still make a profit 8%. If the cost price of article is Rs. 1200, find the marked price of article?
A. Rs. 1280
B. Rs. 1440
C. Rs. 1410
D. Rs. 1350
E. Rs. 1530

16.A can do a piece of work in 30 days and B can do the same work in 24 days. B starts working alone, then A joins him for last 5 days only. For how many days did B work alone?
A. 30 days
B. 18 days
C. 12 days
D. 20 days
E. 15 days

17. Present age of Abhay is 1.5 time the present age of Ram. Sum of present ages of Ram and Sohan is 6.5 times the present age of Abhay. If Sohan's age seven years hence will be 77 years, what is the difference between the present age of Sohan and Ram?
A. 56 years
B. 74 years
C. 65 years
D. 62 years
E. 48 years

Direction: In the following question two equations are given in variables x and y. You have to solve these equations and determine the relation between x and y.
18.
I. $x^2 - 8x + 15 = 0$
II. $y^2 - 9y + 18 = 0$
A. y > x
B. x > y
C. x ≤ y
D. x ≥ y
E. x = y or no relation can be established

Direction: In the following number series, only one number is wrong. Find out the wrong number.
19. 3, 7, 22, 89, 445, 2677
A. 445
B. 7
C. 89
D. 2677
E. 22

20. **Direction :** What approximate value will come in place of the question mark (?) in the following question? (You are not expected to calculate the exact value)
40% of 39.91 + 51.89 – 5.01 × 7.92 = $2^{1.99}$ + ? × 3
A. 4
B. 6
C. 12
D. 8
E. 15

ANSWERS

1. Ans. A.

Floor	People	Instrument
7	B	Flute
6	A	Violin
5	D	Drum
4	E	Guitar
3	G	Sitar
2	F	Piano
1	C	Tabla

2. Ans. C.

Floor	People	Instrument
7	B	Flute
6	A	Violin
5	D	Drum
4	E	Guitar
3	G	Sitar
2	F	Piano
1	C	Tabla

3. Ans. C.

Floor	People	Instrument
7	B	Flute
6	A	Violin
5	D	Drum
4	E	Guitar
3	G	Sitar
2	F	Piano
1	C	Tabla

4. Ans. D.

Floor	People	Instrument
7	B	Flute
6	A	Violin
5	D	Drum
4	E	Guitar
3	G	Sitar
2	F	Piano
1	C	Tabla

5. Ans. C.

Floor	People	Instrument
7	B	Flute
6	A	Violin
5	D	Drum
4	E	Guitar
3	G	Sitar
2	F	Piano
1	C	Tabla

6. Ans. B.
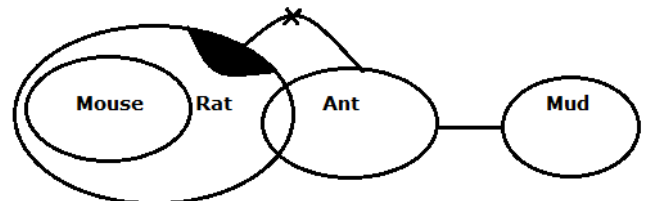
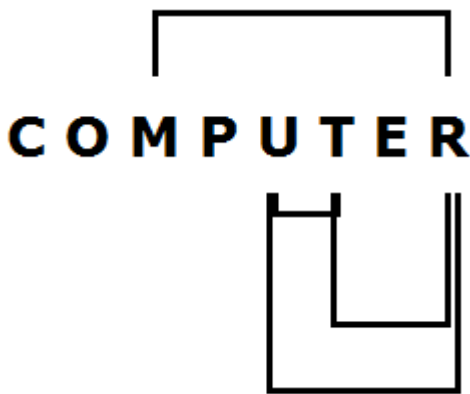**7. Ans. D.**
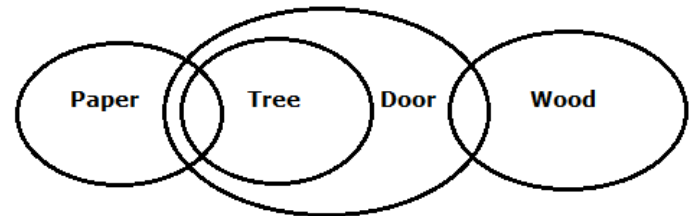
8. Ans. C.
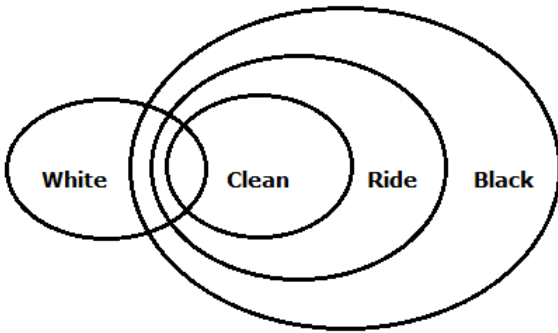
9. Ans. A.
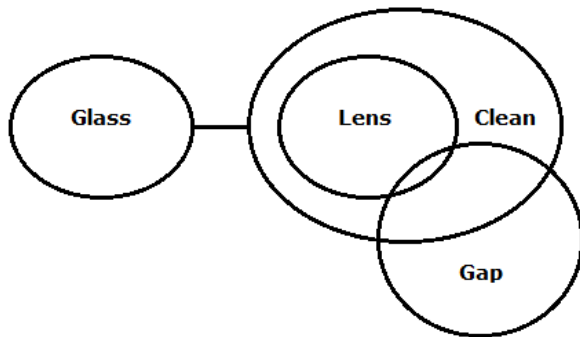
10. Ans. C.

11. Ans. C.
Required percentage
$= \frac{2100 - 1500}{1500} \times 100 = 40\%$

12. Ans. A.
Total number of items produced by all five companies = 1500 + 1200 + 1800 + 2100 + 1600 = 8200

Required average $= \frac{8200}{5} = 1640$

13. Ans. E.
Number of items produced by Microsoft $= \frac{1600}{5} \times 8 = 2560$
Number of items sold by Microsoft = 135% of 1200 = 135 × 12
= 1620
Reuquired difference = 2560 – 1620
= 940

14. Ans. D.
Required ratio = 90% of 1400 : 120% of 1500
= 1260 : 1800
= 7 : 10

15. Ans. B.
Selling price of article = 108% of 1200 = Rs. 1296
90% of marked price of article = Rs. 1296
Marked price of article = $1296 \times \frac{100}{90}$ = Rs. 1440

16. Ans. E.
Let the total work be 120 units.
Efficiency of A $= \frac{120}{30}$ = 4 units/day
Efficiency of B $= \frac{120}{24}$ = 5 units/day
Work done by A and B together in last 5 days = 5(4 + 5) = 45 units
Work done by B alone = 120 – 45 = 75 units
Number of days for which B worked alone $= \frac{75}{5} = 15$

17. Ans. D.
Let the present age of Ram be 4x years.
Present age of Abhay = 1.5 × 4x = 6x years

Present age of Sohan = 77 − 7 = 70 years

$4x + 70 = 6.5 \times 6x$

$\Rightarrow 4x + 70 = 39x$

$\Rightarrow 35x = 70$

$\Rightarrow x = 2$

Required difference = 70 − 4 × 2 = 62 years

18. Ans. E.

I. $x^2 - 8x + 15 = 0$

$\Rightarrow x^2 - 5x - 3x + 15 = 0$

$\Rightarrow x(x - 5) - 3(x - 5) = 0$

$\Rightarrow (x - 5)(x - 3) = 0$

$\Rightarrow x = 5, 3$

II. $y^2 - 9y + 18 = 0$

$\Rightarrow y^2 - 6y - 3y + 18 = 0$

$\Rightarrow y(y - 6) - 3(y - 6) = 0$

$\Rightarrow (y - 6)(y - 3) = 0$

$\Rightarrow y = 6, 3$

Hence, no relation can be established.

19. Ans. A.

The pattern of the series is:

$3 \times 2 + 1 = 7$

$7 \times 3 + 1 = 22$

$22 \times 4 + 1 = 89$

$89 \times 5 + 1 = 446$

$446 \times 6 + 1 = 2677$

Hence, the wrong number is 445.

20. Ans. D.

By approximation, we get:

40% of 40 + 52 − 5 × 8 = 2^2 + ? × 3

$\Rightarrow \frac{40}{100} \times 40 + 52 - 5 \times 8 = 4 + ? \times 3$

$\Rightarrow 16 + 52 - 40 = 4 + ? \times 3$

$\Rightarrow ? \times 3 = 28 - 4$

$\Rightarrow ? = \frac{24}{3} = 8$