

Quiz Date: 9th July 2020

Directions (1-15): In each of these questions, a number series is given. In each series, only one number is wrong. Find out the wrong number.

Q1. 84, 97, 114, 133, 156, 187

- (a) 114
- (b) 156
- (c) 84
- (d) 187
- (e) 97

Q2. 121, 170, 251, 372, 543, 766

- (a) 766
- (b) 170
- (c) 121
- (d) 251
- (e) 543

Q3. 210, 70, 280, 56, 336, 49

- (a) 49
- (b) 210
- (c) 56
- (d) 70
- (e) 280

Q4. 19, 140, 259, 376, 490, 604

- (a) 490
- (b) 259
- (c) 376
- (d) 604
- (e) 19

Q5. 21, 23, 49, 151, 609, 3053

- (a) 3053
- (b) 23
- (c) 21
- (d) 609
- (e) 151

Q6. 3601, 3602, 1803, 604, 154, 36, 12

- (a) 3602
- (b) 1803
- (c) 604
- (d) 154
- (e) 36



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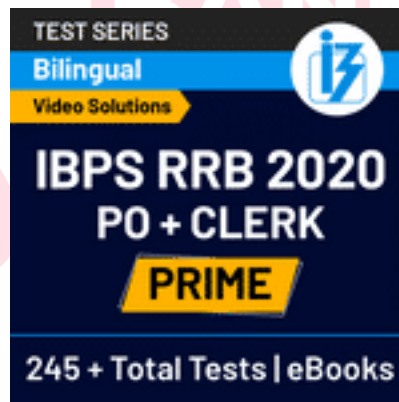


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Q7. 4, 12, 42, 196, 1005, 6066, 42511
(a) 12
(b) 42
(c) 1005
(d) 196
(e) 6066

Q8. 2, 8, 12, 20, 30, 42, 56
(a) 8
(b) 42
(c) 30
(d) 20
(e) 12

Q9. 32, 16, 24, 65, 210, 945, 5197.5
(a) 945
(b) 16
(c) 24
(d) 210
(e) 65



Q10. 7, 13, 25, 49, 97, 194, 385
(a) 13
(b) 49
(c) 97
(d) 194
(e) 25

Q11. 5, 15, 30, 135, 405, 1215, 3645
(a) 5
(b) 30
(c) 405
(d) 3645
(e) 1215

Q12. 2, 9, 28, 65, 126, 216, 344

- (a) 9
- (b) 28
- (c) 216
- (d) 65
- (e) 344

Q13. 1, 2, 6, 21, 86, 445, 2676

- (a) 86
- (b) 6
- (c) 21
- (d) 445
- (e) 2676

Q14. 3, 5, 12, 38, 154, 914, 4634

- (a) 5
- (b) 12
- (c) 154
- (d) 914
- (e) 4634

Q15. 696, 340, 168, 80, 36, 14, 3

- (a) 14
- (b) 168
- (c) 340
- (d) 80
- (e) 3

Solutions

S1. Ans.(d)

$$\begin{array}{cccccc}
 84 & 97 & 114 & 133 & 156 & \boxed{185} \\
 \underbrace{\hspace{1.5cm}} & \underbrace{\hspace{1.5cm}} & \underbrace{\hspace{1.5cm}} & \underbrace{\hspace{1.5cm}} & \underbrace{\hspace{1.5cm}} & \\
 +13 & +17 & +19 & +23 & +29 &
 \end{array}$$

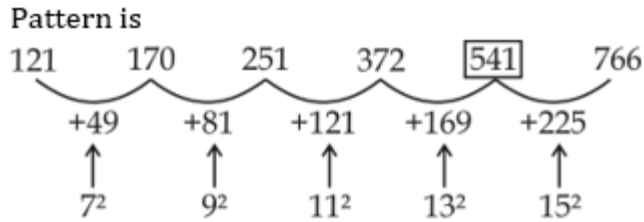
∴ 187 is wrong

$$\text{Right no.} = 156 + 29 = 185$$

13, 17, 19, 23, 29 are prime numbers

Sol.

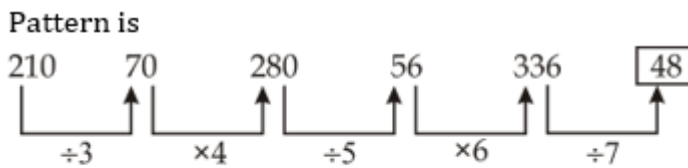
S2. Ans.(e)



Wrong No. = 543

Sol. Right no. = $372 + 169 = 541$

S3. Ans.(a)



Wrong no. = 49

Right no. = $336 \div 7 = 48$

Sol.



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S4. Ans.(a)



Wrong no = 490

Sol. Right no = $376 + 115 = 491$

S5. Ans.(a)

Pattern is

$$21 \times 1 + 2 = 23$$

$$23 \times 2 + 3 = 49$$

$$49 \times 3 + 4 = 151$$

$$151 \times 4 + 5 = 609$$

$$609 \times 5 + 6 = \boxed{3051}$$

Wrong no = 3053

Sol. Right no = $609 \times 5 + 6 = 3051$

S6. Ans.(d)

$$\begin{array}{cccccccc} 3601 & 3602 & 1803 & 604 & 155 & 36 & 12 \\ \downarrow & \uparrow & \downarrow & \uparrow & \downarrow & \uparrow & \downarrow & \uparrow \\ & \div 1+1 & \div 2+2 & \div 3+3 & \div 4+4 & \div 5+5 & \div 6+6 & \end{array}$$

Sol. 154 is written in place of 155.

S7. Ans.(b)

$$\begin{array}{cccccccc} 4 & 12 & 45 & 196 & 1005 & 6066 & 42511 \\ \downarrow & \uparrow & \downarrow & \uparrow & \downarrow & \uparrow & \downarrow & \uparrow \\ & \times 2+(2)^2 & \times 3+(3)^2 & \times 4+(4)^2 & \times 5+(5)^2 & \times 6+(6)^2 & \times 7+(7)^2 & \end{array}$$

Sol. 42 is written in place of 45.

S8. Ans.(a)

$$\begin{array}{cccccccc} 2 & 6 & 12 & 20 & 30 & 42 & 56 \\ \downarrow & \uparrow & \downarrow & \uparrow & \downarrow & \uparrow & \downarrow & \uparrow \\ & +4 & +6 & +8 & +10 & +12 & +14 & \end{array}$$

Sol. 8 is written in place of 6.

S9. Ans.(e)

$$\begin{array}{cccccccc} 32 & 16 & 24 & 60 & 210 & 945 & 5197.5 \\ \downarrow & \uparrow & \downarrow & \uparrow & \downarrow & \uparrow & \downarrow & \uparrow \\ & \times 0.5 & \times 1.5 & \times 2.5 & \times 3.5 & \times 4.5 & \times 5.5 & \end{array}$$

Sol. 65 is written in place of 60.

S10. Ans.(d)

$$\begin{array}{cccccccc} 7 & 13 & 25 & 49 & 97 & 193 & 385 \\ \downarrow & \uparrow & \downarrow & \uparrow & \downarrow & \uparrow & \downarrow & \uparrow \\ & +6 & +12 & +24 & +48 & +96 & +192 & \end{array}$$

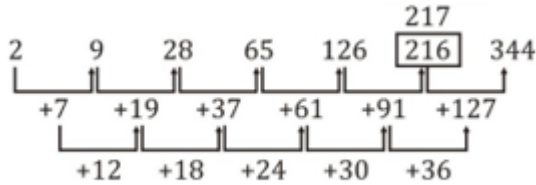
Sol. 194 is written in place of 193.

S11. Ans.(b)

Series is $\times 3, \times 3, \times 3, \times 3, \dots$

Sol. \therefore Wrong term = 30

S12. Ans.(c)



Sol. Wrong term = 216

S13. Ans.(a)

Series is $\times 1+1, \times 2+2, \times 3+3, \times 4+4, \dots$

\therefore Wrong term = 86

Sol.

S14. Ans.(d)

Series is $\times 1+2, \times 2+2, \times 3+2, \times 4+2$

\therefore Required answer = $154 \times 5 + 2 = 772$

Sol. Wrong term = 914

S15. Ans.(c)

Series is $\div 2-4, \div 2-4, \div 2-4, \dots$

\therefore Correct term = $\frac{696}{2} - 4 = 344$

Sol. Wrong term = 340



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