



Boat and Streams Questions for SBI Clerk Prelims 2020-21

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Boat and Streams Questions for SBI Clerk Prelims 2020-21

Boat and Streams

1. Sum of the downstream speed and upstream speed of a boat is 36 Km/h. Speed of the boat in still water is 2 Km/h more than four times the speed of the stream. Find the total time taken by the boat to go 132 Km downstream and 56 Km upstream.

- A. 6 hours
- B. 10 hours
- C. 12 hours
- D. 8 hours
- E. None of these

2. The ratio of speed of stream and boat is 1: 7. If a boat covers 120 km upstream and downstream in 3.5 h, then find the sum of speed of boat and stream.

- A. 70 kmph
- B. 50 kmph
- C. 140 kmph
- D. 80 kmph
- E. 120 kmph

3. The upstream speed and downstream speed of the boat is 28 kmph and 36 kmph respectively. Find the time taken to cover the distance 224km in still water.

- A. 6 h
- B. 7 h
- C. 8 h
- D. 6.2 h
- E. None of these

4. A fisherman goes 28 km along the stream and returning back to the same point in x hours. What is the value of x if the speed of boat in still water is 12 km/hr and speed of stream is 2 km/hr?

- A. 3.2 hrs
- B. 3.8 hrs
- C. 4.2 hrs
- D. 4.8 hrs
- E. 5.2 hrs

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5. If downstream speed is 20km/hr and upstream speed is 10km/hr. Find the speed of stream?

- A.5
- B.4
- C.7
- D.8
- E.9

6. A boat goes certain distance in upstream in 6 hour and return back in 4 hour. If speed of stream is 4 km/hr find the distance?

- A.66
- B.50
- C.62
- D.95
- E.96

7. A boat goes 20 km downstream in one hour and the same distance upstream in two hours. The speed of the boat in still water is?

- A.5
- B.7

C.8

D.15

E.13

8. Ratio of downstream speed and upstream speed is 2:1. Then find ratio speed of boat and speed of stream?

A.2:1

B.2:9

C.3:1

D.1:7

E.1:4

9. A boat goes 75 km upstream in 3 hours and 60 km downstream in 1.5 hours. Find the speed of the boat in still water?

A.13.6

B.32.5

C.18.9

D.15.6

E.12.3



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10. If the speed of a boat in still water is 20km/hr and the speed of the current is 5km/hr. Then find the time taken by the boat to travel 100 km?

- A.10.6
- B.15.9
- C.12.3
- D.14.7
- E.11.7

11. Speed of boat in still water is 12km/hr and speed of stream is 4km/hr. then find the time taken by boat to go 84 km and comeback?

- A.11.2
- B.10.1
- C.9.9
- D.14.23
- E.15.75

12. The speed of boat in still water is 8km/hr. A boatman goes a distance in downstream and return back. Speed of stream is 4km/hr. Then find average velocity?

- A.3
- B.4
- C.8
- D.6
- E.9

13. A boat goes a certain distance in downstream in 8 hour and return back in 12 hour. If speed of stream is 5km/hr then find speed of boat?

- A.33
- B.96
- C.25
- D.63
- E.45

14. Speed of stream is 7km/hr and downstream speed is 35km/hr. Find the speed of upstream?

- A.36
- B.21
- C.96
- D.27
- E.36





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15. Speed of boat in still water is 10km/hr and speed of stream is 3km/hr. then find the time taken by boat in 49 km upstream?

- A.7
- B.9
- C.6
- D.4
- E.1

16. A boat goes in 12 km in upstream in 36 minute. If speed of boat is 24km/hr then find the speed of stream?

- A.1.2
- B.3.3
- C.9.6
- D.4.6
- E.4

17. A boat cover 2km downstream in 30 minute and cover 14 km upstream in 2 hour 20 min. find the speed of boat in still water?

- A.3.3

B.2.3

C.4.3

D.5

E.14.3

18. Speed of stream is 6 km/hr and downstream speed is 16km/hr. Find the ratio of upstream speed and downstream speed?

A.1:2

B.2:5

C.1:4

D.1:3

E.3:6

19. To go a certain distance in upstream a boat takes thrice as much time in going the same distance in downstream. Speed of boat is 14km/hr then find speed of stream?

A.2

B.7

C.8

D.5





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E.1

20. A boat goes a certain distance in downstream in 9 hour and return back in 27 hour. If speed of boat is 12km/hr then find the distance?

A.162

B.103

C.14.6

D.123

E.113

21. A man can row 6km/hr in still water. If the speed of the current is 2km/hr it takes 4hr more in upstream than in the downstream for the same distance. Find the distance?

A.11

B.19

C.17

D.14

E.32

22. Speed of boat is 9km/hr. Boat covers 45 km upstream in 9 hours. Find the speed of the stream?

A.11

B.12

C.4.5

D.4

E.7

23. Speed of boat is 12 km/hr. Speed of the stream is 25% less than speed of boat. Then find time taken by boat to go 80km downstream?

A.10.3

B.22.36

C.3.80

D.6.3

E.2.2

24. A boat goes 84 km upstream in 7 hours and 60 km downstream in 3 hours. Find the speed of the boat in still water?

A.11.3

B.16

C.14.36

D.14.17





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E.14

25. Downstream speed of a boat is 15km/hr and upstream speed is 9km/hr. find the speed of boat in still water?

A.12

B.12.3

C.11

D.14.6

E.11.2

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Boat and Streams – Answer and Explanation

Q1) Answer: B

Let, speed of the boat in still water = x km/h

And speed of the stream = y Km/h

$$x + y + x - y = 36$$

$$\Rightarrow 2x = 36$$

$$\Rightarrow x = 36/2$$

$$\Rightarrow x = 18 \text{ Km/h}$$

Now,

$$4y + 2 = 18$$

$$\Rightarrow 4y = 18 - 2$$

$$\Rightarrow 4y = 16$$

$$\Rightarrow y = 16/4$$

$$\Rightarrow y = 4 \text{ Km/h}$$

$$\text{Required time} = 132/(18 + 4) + 56/(18 - 4)$$

$$= 132/22 + 56/14$$

$$= 6 + 4$$

$$= 10 \text{ hours}$$

Q2) Answer: D

The ratio of speed of stream and boat = 1: 7 ($x, 7x$)

$$[120/(7x - x)] + [120/(7x + x)] = 3.5$$

$$35/x = 3.5$$

$$x = 10$$

$$\text{Required sum} = 8 * 10 = 80 \text{ kmph}$$

Q3) Answer: B

$$\text{Speed of the boat in still water} = (28 + 36)/2 = 32 \text{ kmph}$$

$$\text{Required time} = 224/32 = 7 \text{ h}$$

Q4) Answer: D

$$\text{Downstream speed of boat in River} = 12 + 2 = 14 \text{ km/hr}$$

$$\text{Upstream speed of boat in River} = 12 - 2 = 10 \text{ km/hr}$$

$$\text{So required time for the fisherman to return} = 28/14 + 28/10$$

$$= 2 + 2.8$$

$$= 4.8 \text{ hrs}$$

Q5) Answer a

$$\text{Upstream speed} = \text{boat speed} - \text{stream speed} = 10$$

$$\text{Downstream speed} = \text{boat speed} + \text{stream speed} = 20$$

$$2 * \text{Speed of boat} = 30$$

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Speed of boat = $30/2 = 15$

Speed of stream = $20 - 15 = 5$

Q6) Answer e

Let the distance is D km

Speed of boat is x km/hr

So according to the question,

$$D/x - 4 = 6 \rightarrow (1) \text{ and } D/x + 4 = 4 \rightarrow (2)$$

Dividing eq 1 from eq 2

$$(x+4)/(x-4) = 6/4 = 3/2$$

$$\text{Or, } x = 20$$

$$D = 16 \times 6 = 96 \text{ km}$$

Q7) Answer d

Speed of boat is x

Speed of stream is y

So according to the question,

$$20/(x-y) = 2$$

$$\text{Or, } x-y = 10 \rightarrow (1)$$

$$20/(x+y) = 1$$

$$\text{Or, } x+y = 20 \rightarrow (2)$$

From 1 and 2 we get

$$2x = 30$$

$$\text{So, } x = 15$$

Speed of boat is 15 km/hr

Q8) Answer c

Let the downstream speed is 2x and upstream speed is x

$$\text{So speed of boat is } = 2x + x/2 = 3x/2 =$$

$$\text{Speed of stream } = 2x - x/2 = x/2$$

$$\text{So required ratio } = 3x/2 : x/2 = 3:1$$

Q9) Answer b

$$\text{Upstream speed } = 75/3 = 25$$

$$\text{Downstream speed } = 60/1.5 = 40$$

$$\text{Speed of boat } = (40 + 25)/2 = 65/2 = 32.5 \text{ km/hr}$$

Q10) Answer a

$$\text{Downstream speed } = 20 + 5 = 25 \text{ km/hr}$$

$$\text{Upstream speed } = 20 - 5 = 15 \text{ km/hr}$$

$$\text{Time taken to go 100 km and return back is } = 100/25 + 100/15 = 4 + 6.6 = 10.6$$

Q11) Answer e

$$\text{Downstream speed } = 12 + 4 = 16 \text{ km/hr}$$

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Upstream speed = $12 - 4 = 8 \text{ km/hr}$

Time taken to go 84 km and return back
is $= 84/16 + 84/8 = 5.25 + 10.5 = 15.75$

Q12) Answer d

Let total distance is D

Downstream speed = $8 + 4 = 12 \text{ km/hr}$

Upstream speed = $8 - 4 = 4 \text{ km/hr}$

Average velocity = $2D / \{ (D/12) + (D/4) \} = 2 * 12 / 4 = 6 \text{ km/hr}$

Q13) Answer c

Let the distance is D km

Speed of boat is x km/hr

So according to the question,

$D/x - 5 = 12 \rightarrow (1)$ and $D/x + 5 = 8 \rightarrow (2)$

Dividing eq 1 from eq 2

$(x+5)/(x-5) = 12/8 = 3/2$

Or, $x = 25$

So speed of boat is 25 km/hr

Q14) Answer b

Speed of boat is $= 35 - 7 = 28 \text{ km/hr}$

So upstream speed = $28 - 7 = 21 \text{ km/hr}$

Q15) Answer a

Upstream speed = $10 - 3 = 7 \text{ km/hr}$

Time taken to go 49 km upstream is $= 49/7 = 7 \text{ hour}$

Q16) Answer e

Upstream speed = boat speed - speed of stream
 $= 12 / (36/60) = 20 \text{ km/hr}$

Speed of stream = $24 - 20 = 4 \text{ km/hr}$

Q17) Answer d

Upstream speed = $2 / (30/60) = 4 \text{ km/hr}$

Downstream speed = $14 / (7/3) = 6 \text{ km/hr}$

Speed of boat = $(6 + 4) / 2 = 10 / 2 = 5 \text{ km/hr}$

Q18) Answer c

Downstream speed = 16 km/hr

Speed of stream = 6 km/hr

Speed of boat = $16 - 6 = 10 \text{ km/hr}$

Upstream speed = $10 - 6 = 4 \text{ km/hr}$

Required ratio = $4:16 = 1:4$

Q19) Answer b

Let the distance D and speed of stream is x

So according to the question,

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$$D/14-x=3*(D/14+x)$$

$$\text{Or, } 42-3x=14+x$$

$$\text{Or, } 4x=28 \text{ or, } x=7$$

$$\text{Speed of stream} = 7 \text{ km/hr}$$

Q20) Answer a

Let the distance is D km

Speed of stream is x km/hr

So according to the question,

$$D/12+x=9 \rightarrow (1) \text{ and } D/12-x=27 \rightarrow (2)$$

Dividing eq 1 from eq 2

$$(12-x)/(12+x)=1/3$$

$$\text{Or, } x=6$$

$$D=18*9=162\text{km}$$

Q21) Answer e

$$\text{Downstream speed} = 6+2=8\text{km/hr}$$

$$\text{Upstream speed} = 6-2=4\text{km/hr}$$

Let the distance is D

$$D/4-D/8=4$$

$$\text{Or, } D/8=4$$

$$D=32 \text{ km}$$

Q22) Answer d

$$\text{Upstream speed} = 45/9=5\text{km/hr}$$

$$\text{Boat speed} = 9 \text{ km/hr}$$

$$\text{Speed of stream} = 9-5=4\text{km/hr}$$

Q23) Answer c

$$\text{Speed of boat is } 12\text{km/hr}$$

$$\text{Speed of stream is } = 12*75/100=9\text{km/hr}$$

$$\text{Time taken to go } 80\text{km} = 80/21=3.80 \text{ hr}$$

Q24) Answer b

$$\text{Upstream speed} = 84/7=12$$

$$\text{Downstream speed} = 60/3=20$$

$$\text{Speed of boat} = (20+12)/2=32/2=16\text{km/hr}$$

Q25) Answer a

$$\text{Downstream speed} = 15$$

$$\text{Upstream speed} = 9$$

$$\text{So boat speed} = 15+9/2=24/2=12\text{km/hr}$$

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