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# DI Info Chart Questions for IBPS PO Pre, IBPS Clerk, LIC AAO, SBI PO Pre and SBI Clerk Exams

## DI Info Chart 25

**Directions:** Study the following information carefully and answer the questions given beside.

There are seven pipes connected to a tank out of which four are inlet pipes i.e. A, C, E and F and three are outlet pipes i.e. B, D and G. Pipes B and E together can fill the empty tank in 90 hours. Pipe A is 50% more efficient than pipe D. Pipes E and F together can fill the empty tank in 36 hours. Pipe E is 10% less efficient than Pipe C. Pipes B and G together can empty the full tank in 36 hours. Pipes A and D together can fill the empty tank in 216 hours. Pipes B and F together can fill the empty tank in 180 hours.

**1. What is the time (upto one decimal point) taken by all the inlet pipes to fill the tank completely?**

- A. 16 hours                      B. 16.6 hours                      C. 17 hours  
D. 17.6 hours                      E. None of these

**2. In how many hours, pipes A and F together can fill the tank?**

- A. 42 hours                      B. 36 hours                      C. 40 hours  
D. 35 hours                      E. 45 hours

**3. If all the outlet pipes are opened together, then find the time taken by them to empty the full tank?**

- A. 32 hours                      B. 27 hours                      C. 25 hours  
D. 30 hours                      E. 24 hours

**4. What is the time taken by pipes B, C and D together to fill the empty tank?**

- A. 240 hours                      B. 250 hours                      C. 256 hours  
D. 270 hours                      E. 275 hours

5. If the pipes D and E are used as inlet pipes and A and C as outlet pipes. Find the approximate time required to fill the empty tank and empty the filled tank respectively?

A. 31 hours, 31 hours

B. 39 hours, 39 hours

C. 39 hours, 31 hours

D. 31 hours, 39 hours

E. None of these



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**Correct answer:**

1	2	3	4	5
B	C	B	D	C

**Explanation:**

1. Let the capacity of the tank be LCM of (90, 216, 36 and 180) = 1080 litres

Amount of water to be filled by pipes B and E together in one hour

$$= \frac{1080}{90} = 12 \text{ litres}$$

Amount of water to be filled by pipes F and E together in one hour

$$= \frac{1080}{36} = 30 \text{ litres}$$

Amount of water to be filled by pipes B and F together in one hour

$$= \frac{1080}{180} = 6 \text{ litres}$$

Amount of water to be filled by pipes B, F and E together in one hour

$$= \frac{12 + 30 + 6}{2} = 24 \text{ litres}$$

Amount of water filled by F in one hour =  $24 - 12 = 12$  litres

Amount of water filled by E in one hour =  $30 - 12 = 18$  litres

Pipe E is 10% less efficient than C

Amount of water filled by C in one hour = 20 litres

Amount of water to be filled by pipes A and D together in one hour

$$= \frac{1080}{216} = 5 \text{ litres}$$

Let, the amount of water taken out by pipe D in one hour = x litres

So, the amount of water filled by A in one hour = 1.5x litres

So,  $1.5x - x = 5$ ;  $x = 10$  litres

So, the amount of water filled by A in one hour =  $1.5 \times 10$  litres = 15 litres

So, the amount of water filled by A, C, E and F in one hour =  $15 + 12 + 18 + 20$   
= 65

Time taken by pipes A, C, E and F together to fill the empty tank

$$= \frac{1080}{65} = 16.6 \text{ hours}$$

Hence, option B is correct.

2. Let the capacity of the tank be LCM of (90, 216, 36 and 180) = 1080 litres

Amount of water to be filled by pipes B and E together in one hour

$$= \frac{1080}{90} = 12 \text{ litres}$$

Amount of water to be filled by pipes F and E together in one hour

$$= \frac{1080}{36} = 30 \text{ litres}$$

Amount of water to be filled by pipes B and F together in one hour

$$= \frac{1080}{180} = 6 \text{ litres}$$

Amount of water to be filled by pipes B, F and E together in one hour

$$= \frac{12 + 30 + 6}{2} = 24 \text{ litres}$$

Amount of water filled by F in one hour =  $24 - 12 = 12$  litres

Amount of water to be filled by pipes A and D together in one hour

$$= \frac{1080}{216} = 5 \text{ litres}$$

Let, the amount of water taken out by pipe D in one hour = x litres

So, the amount of water filled by A in one hour = 1.5x litres

So,  $1.5x - x = 5$ ;  $x = 10$  litres

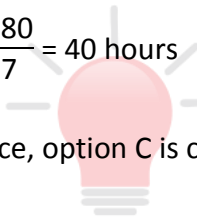
So, the amount of water filled by A in one hour =  $1.5 \times 10$  litres = 15 litres

Amount of water to be filled by pipes A and F together in one hour =  
 $12 + 15 = 27$  litres

Time taken by pipes A and F together to fill the empty tank

$$= \frac{1080}{27} = 40 \text{ hours}$$

Hence, option C is correct.



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- 3.** Let the capacity of the tank be LCM of (90, 216, 36 and 180) = 1080 litres

Amount of water taken out by pipes B and G together in one hour

$$= \frac{1080}{36} = 30 \text{ litres}$$

Amount of water to be filled by pipes A and D together in one hour

$$= \frac{1080}{216} = 5 \text{ litres}$$

Let, the amount of water taken out by pipe D in one hour = x litres

So, the amount of water filled by A in one hour = 1.5x litres

So,  $1.5x - x = 5$ ;  $x = 10$  litres

So, the amount of water taken out by D in one hour = 10 litres

Amount of water taken out by pipes B, D and G together in one hour = 10 + 30 = 40 litres

So, the time taken by pipes B, D and G together to empty the full tank

$$= \frac{1080}{40} = 27 \text{ hours}$$

Hence, option B is correct.

4. Let the capacity of the tank be LCM of (90, 216, 36 and 180) = 1080 litres

Amount of water to be filled by pipes B and E together in one hour

$$= \frac{1080}{90} = 12 \text{ litres}$$

Amount of water to be filled by pipes F and E together in one hour

$$= \frac{1080}{36} = 30 \text{ litres}$$

Amount of water to be filled by pipes B and F together in one hour

$$= \frac{1080}{180} = 6 \text{ litres}$$

Amount of water to be filled by pipes B, F and E together in one hour

$$= \frac{12 + 30 + 6}{2} = 24 \text{ litres}$$

Amount of water filled by B in one hour = 30 – 24 = 6 litres

Amount of water filled by E in one hour = 24 – 6 = 18 litres

Amount of water to be filled by pipes C in one hour

$$= \frac{18}{0.90} = 20 \text{ litres}$$

Amount of water to be filled by pipes A and D together in one hour

$$= \frac{1080}{216} = 5 \text{ litres}$$

Let, the amount of water taken out by pipe D in one hour = x litres

So, the amount of water filled by A in one hour = 1.5x litres

So,  $1.5x - x = 5$ ;  $x = 10$  litres

So, the amount of water filled by D in one hour = 10 litres

Amount of water to be filled by pipes B, C and D together in one hour =  $20 - 10 - 6 = 4$  litres

Time taken by pipes B, C and D together to fill the empty tank

$$= \frac{1080}{4} = 270 \text{ hours}$$

Hence, option D is correct.



5. Let the capacity of the tank be LCM of (90, 216, 36 and 180) = 1080 litres

Amount of water to be filled by pipes B and E together in one hour

$$= \frac{1080}{90} = 12 \text{ litres}$$

Amount of water to be filled by pipes F and E together in one hour

$$= \frac{1080}{36} = 30 \text{ litres}$$

Amount of water to be filled by pipes B and F together in one hour

$$= \frac{1080}{180} = 6 \text{ litres}$$



Amount of water to be filled by pipes B, F and E together in one hour

$$= \frac{12 + 30 + 6}{2} = 24 \text{ litres}$$

Amount of water filled by F in one hour =  $24 - 12 = 12$  litres

Amount of water filled by E in one hour =  $30 - 12 = 18$  litres

Pipe E is 10% less efficient than C

Amount of water filled by C in one hour = 20 litres

Let, the amount of water taken out by pipe D in one hour =  $x$  litres

So, the amount of water filled by A in one hour =  $1.5x$  litres

So,  $1.5x - x = 5$ ;  $x = 10$  litres

So, the amount of water filled by A in one hour =  $1.5 \times 10$  litres = 15 litres

And, amount of water filled by C in one hour = 20 litres

And, amount of water taken out by A and C = 35 litres

Therefore, time required to empty the filled tank

$$= \frac{1080}{35} = 31 \text{ hours}$$

Also, the amount of water filled by D and E in one hour = 28 litres

Therefore, time required to fill the empty tank

$$= \frac{1080}{28} = 39 \text{ hours}$$

Hence, option C is correct.

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