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TIME & WORK
PIPES & CISTERNS

PREVIOUS YEAR QUESTIONS

with

ANSWER KEY
2011-2023

CSAT (GS PAPER II)

CSAT CLASSROOM PROGRAMME
OFFLINE | LIVE-ONLINE

for PRELIMS 2024

📞 **9613-19-20-21**

Previous Year Questions

Time and Work

1. In a garrison, there was food for 1000 soldiers for one month. After 10 days, 1000 more soldiers joined the garrison. How long would the soldiers be able to carry on with the remaining food ?

   (a) 25 days   (b) 20 days

   (c) 15 days   (d) 10 days

   [CSAT 2013]

2. Ram and Shyam work on a job together for four days and complete 60% of it. Ram takes leave then and Shyam works for eight more days to complete the job. How long would Ram take to complete the entire job alone ?

   (a) 6 days   (b) 8 days

   (c) 10 days   (d) 11 days

   [CSAT 2016]

3. W can do 25% of a work in 30 days, X can do 1/4 of the work in 10 days, Y can do 40% of the work in 40 days and Z can do 1/3 of the work in 13 days. Who will complete the work first ?

   (a) W   (b) X

   (c) Y   (d) Z   **[CSAT 2016]**

4. P works thrice as fast as Q, whereas P and Q together can work four times as fast as R. If P, Q and R together work on a job, in what ratio should they share the earnings ?

   (a) 3 : 1 : 1   (b) 3 : 2 : 4

   (c) 4 : 3 : 4   (d) 3 : 1 : 4

   [CSAT 2017]

5. A man completes 7/8 of a job in 21 days. How many more days will it take him to finish the job if quantum of work is further increased by 50% ?

   (a) 24   (b) 21

   (c) 18   (d) 15

   [CSAT 2021]

6. 24 men and 12 women can do a piece of work in 30 days. In how many days can 12 men and 24 women do the same piece of work ?

   (a) 30 days

   (b) More than 30 days

   (c) Less than 30 days or more than 30 days

   (d) Data is inadequate to draw any conclusion

   [CSAT 2022]

7. A, B, C working independently can do a piece of work in 8, 16 and 12 days respectively. A alone works on Monday, B alone works on Tuesday, C alone works on Wednesday; A alone, again works on Thursday and so on. Consider the following statements :

   1. The work will be finished on Thursday.
   2. The work will be finished in 10 days.

   Which of the above statements is/are correct ?

   (a) 1 only

   (b) 2 only

   (c) Both 1 and 2

   (d) Neither 1 nor 2

   [CSAT 2023]

ANSWER KEY

1.	(d)	2.	(c)	3.	(d)	4.	(a)	5.	(d)	6.	(d)	7.	(a)

Previous Year Questions

Pipes and Cisterns

1. Two pipes A and B can independently fill a tank completely in 20 and 30 minutes respectively. If both the pipes are opened simultaneously, how much time will they take to fill the tank completely ?

   (a) 10 minutes   (b) 12 minutes

   (c) 15 minutes   (d) 25 minutes

   [CSAT 2015]

2. There are three pillars X, Y and Z of different heights. Three spiders A, B and C start to climb on these pillars simultaneously. In one chance, A climbs on X by 6 cm but slips down 1 cm. B climbs on Y by 7 cm but slips down 3 cm. C climbs on Z by 6.5 cm but slips down 2 cm. If each of them requires 40 chances to reach the top of the pillars, what is the height of the shortest pillar ?

   (a) 161 cm   (b) 163 cm

   (c) 182 cm   (d) 210 cm

   [CSAT 2017]

3. A frog tries to come out of a dried well 4.5 m deep with slippery walls. Every time the frog jumps 30 cm, slides down 15 cm. What is the number of jumps required for the frog to come out of the well ?

   (a) 28

   (b) 29

   (c) 30

   (d) 31   **[CSAT 2020]**

ANSWER KEY

1. (b)   2. (b)   3. (b)

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