

September Sprint for CAT 2025

Class 18

Routes and Network





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September Sprint Schedule

Date	Topic	Date	Topic	Date	Topic
01-Sep	Number System - 1	11-Sep	Games and Tournament	21-Sep	Algebra - 3
02-Sep	Arrangement	12-Sep	Odd One Out	22-Sep	Logical DI
03-Sep	Number System - 2	13-Sep	Chart Based DI - 3	23-Sep	Geometry - 1
04-Sep	Para Completion	14-Sep	Arithmetic - 4	24-Sep	Reading Comprehension - 3
05-Sep	Arithmetic - 1	15-Sep	Venn Diagram	25-Sep	Geometry - 2
06-Sep	Chart Based DI - 1	16-Sep	Reading Comprehension - 2	26-Sep	Quantitative Reasoning
07-Sep	Arithmetic - 2	17-Sep	Algebra - 1	27-Sep	Geometry - 3
08-Sep	Reading Comprehension - 1	18-Sep	Routes and Network	28-Sep	Parajumbles
09-Sep	Chart Based DI - 2	19-Sep	Algebra - 2	29-Sep	Misc. LR topics
10-Sep	Arithmetic - 3	20-Sep	Para Summary	30-Sep	Modern Maths

Preparing for MBA exams for 2025-26?



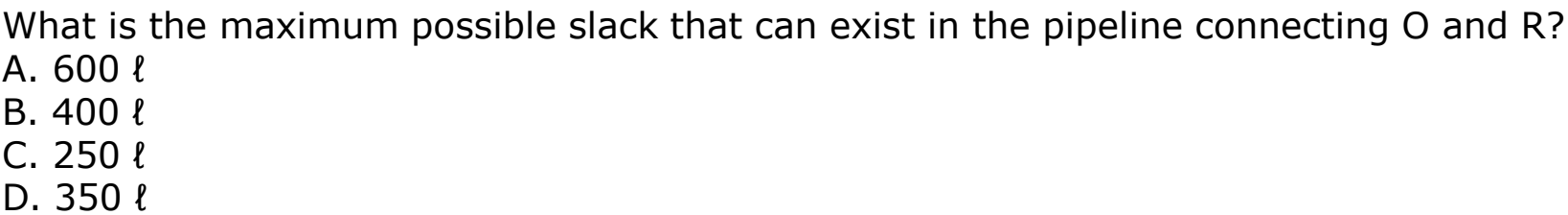
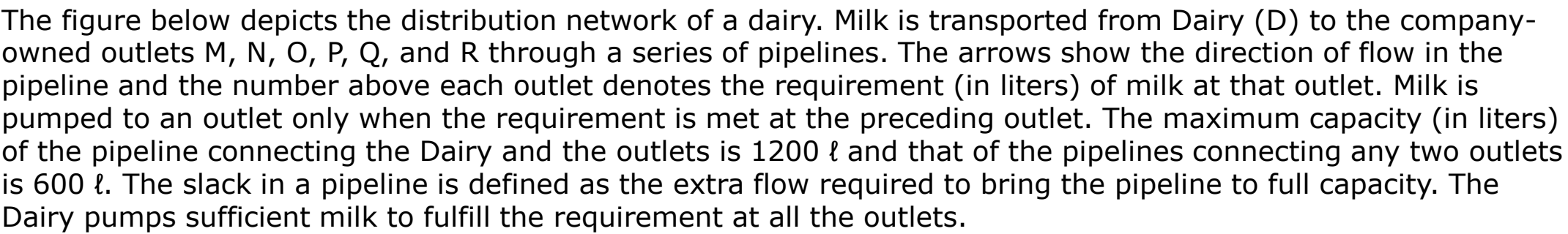
- Recorded concept videos
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- Topic wise Practice sheets
- Doubt Resolution Group
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- In VA, grammar and vocab also covered
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Price: **15000/-**

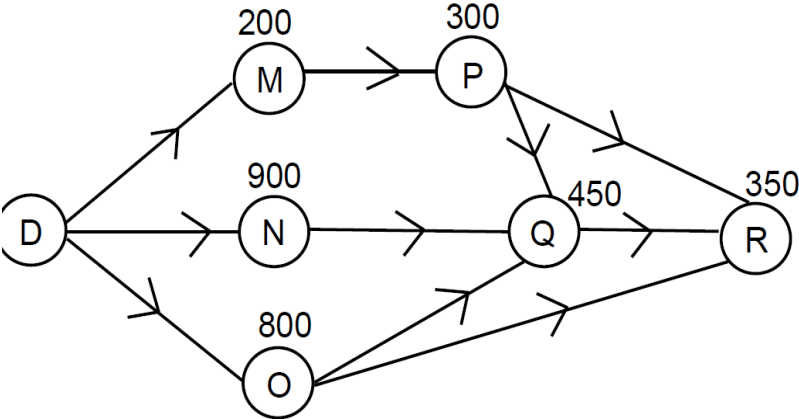
Section-wise modules are also available

Pause the video, solve the set, and then look at the solution!





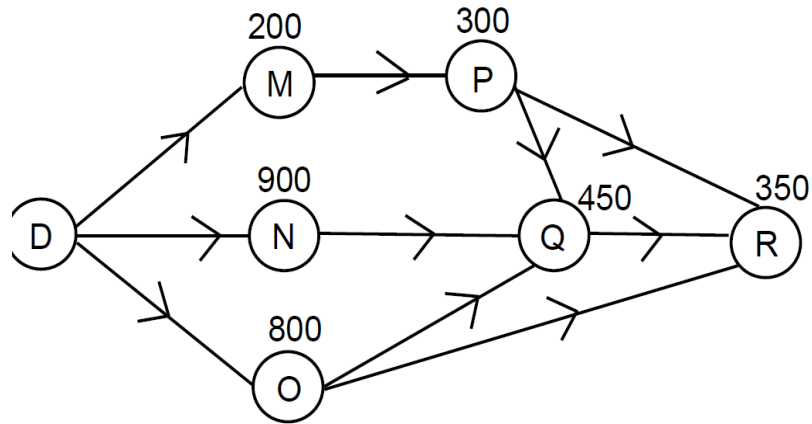
The figure below depicts the distribution network of a dairy. Milk is transported from Dairy (D) to the company-owned outlets M, N, O, P, Q, and R through a series of pipelines. The arrows show the direction of flow in the pipeline and the number above each outlet denotes the requirement (in liters) of milk at that outlet. Milk is pumped to an outlet only when the requirement is met at the preceding outlet. The maximum capacity (in liters) of the pipeline connecting the Dairy and the outlets is 1200 ℓ and that of the pipelines connecting any two outlets is 600 ℓ. The slack in a pipeline is defined as the extra flow required to bring the pipeline to full capacity. The Dairy pumps sufficient milk to fulfill the requirement at all the outlets.



Due to a technical problem, if the pipeline connecting N and Q cannot be used, then what will be the deficit at Q and R put together?

- A. 300 ℓ
- B. 250 ℓ
- C. 100 ℓ
- D. 0

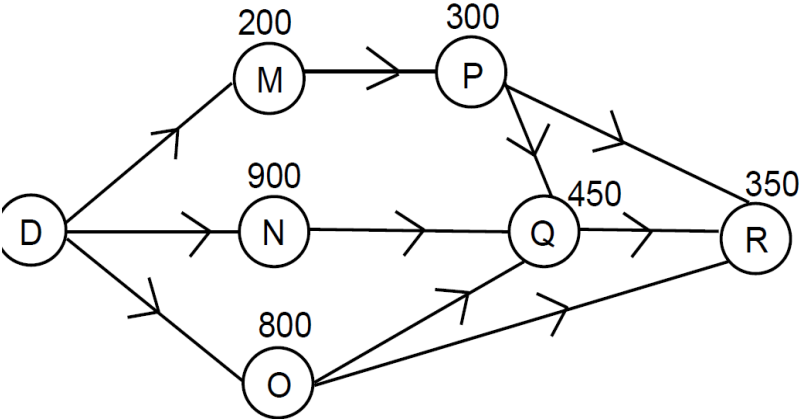
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If the requirement at R increases by three-fifths because of a surge in demand, the deficit at P, Q, O, and R put together is

- A. 210 ℓ
- B. 110 ℓ
- C. 60 ℓ
- D. 10 ℓ

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If the pipeline connecting N and Q is carrying only half its capacity, the pipeline connecting which other two points can also have a 50% slack?

- A. D and O
- B. M and P
- C. D and M
- D. D and N



CAT 2025 Mock Tests

15 Full- Length Mocks
10 VARC Sectionals (Text Solutions)
10 DILR Sectionals (Video Solutions)
10 QA Sectionals (Video Solutions)



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₹ 1,500



CAT and OMETs Mock Test Bundle

All Mocks Based on the Latest Exam Pattern

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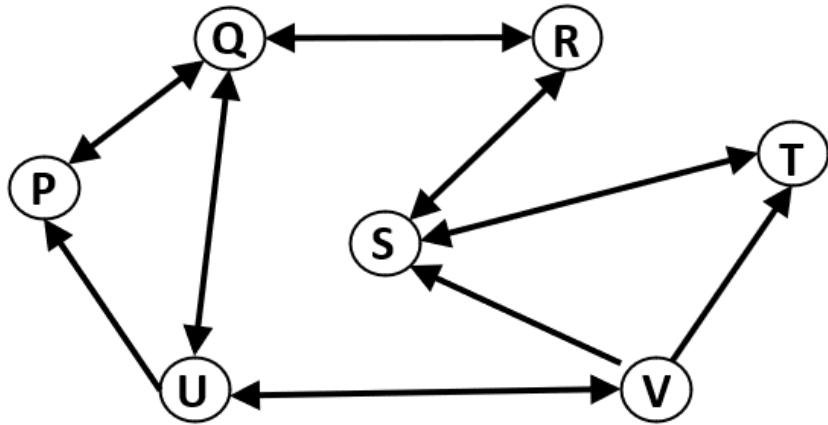
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NMAT 2025: 15 Mocks
SNAP 2025: 20 Mocks
XAT 2026: 5 Mocks
CMAT 2026: 10 Mocks
MAHCET 2026: 10 Mocks
CUET PG 2026: 10 Mocks
MICAT 2025: 5 Mocks
XGMT 2026: 5 Mocks
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CAT and OMETs Mocks by MBA Karo



Seven localities in a city are connected by certain two-way and one-way roads as shown in the figure:



On a rainy day, the Traffic Commissioner of the city, changed all the existing two-way roads into one-way roads while ensuring that any locality can be reached from any other locality.

Which of the following is one of the one-way roads after the changes?
 A. Q to R B. R to S C. U to V D. S to T

What is the minimum number of localities that a person must pass through to go from T to U (excluding T and U)?

In how many ways can a person travel from V to Q without passing through any locality twice?

If a person traveled from one locality to another and passed through all the localities exactly once, how many of the seven localities can be the locality from which he started?

If a person started from V and passed through all the localities exactly once, which was the last locality he must have visited?
 A. P B. Q C. U D. T



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Four colleagues Alam, Balram, Corey, and Daljeet, during their office lunch time which is from 1:00 – 2:00 pm go for a walk through 2 different routes i.e. they exit from one gate and enter from the other one. A straight path, within the office, connects Gates 1 and 2. Alam and Balram exit from Gate 1 and enter from Gate 2, and again move towards Gate 1 using the straight path; while Corey and Daljeet exit from Gate 2 and enter from Gate 1, and again move towards Gate 2 using the straight path. The routes are in a clockwise direction i.e. from Gate 1 to Gate 2 a person can only walk in a clockwise direction and similarly from Gate 2 to Gate 1. All of them walk at the same speed. It takes 5 minutes to walk from the Gate 1 exit to the Gate 2 entrance and 6 minutes to walk from the Gate 2 exit to the Gate 1 entrance. The time taken to walk from Gate 1 to Gate 2 and vice versa within the office is 1 minute. Each person starts the next round of walk immediately after completing the first round.

If Alam and Corey complete the maximum possible number of equal rounds, when can be the last time when Alam starts walking?

- A. 1:08 pm B. 1:10 pm C. 1:12 pm D. 1:15 pm

If both Balram and Daljeet start walking at 1 pm, how many times will they meet by 2 pm?

If the colleagues leave at a gap of 3 minutes each in the order of Balram, Alam, Corey, and David, with Balram leaving at 1 pm, which will be the first pair to meet at gate 2?

- A. Balram, Corey B. Balram, Daljeet
C. Alam, Corey D. Alam, Daljeet

If the colleagues leave at a gap of 3 minutes each in the order of Balram, Alam, Corey, and David, with Balram leaving at 1 pm, how many times will a pair of people meet at gate 1?





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CAT and OMETs Mocks by MBA Karo

11 students appeared in an exam consisting of 70 multiple-choice questions. Some of them attended the paper honestly and attempted the entire paper. Coincidentally, each one of them made a mistake in one of the questions (which were different from one another). The remaining students copied the answers from at least one or at most two students. Each of these students deliberately introduced a wrong answer to one of the questions. If a student copied answers from two students, they would copy all the identical answers and leave those questions blank for which the answers are different. The table below gives the incorrect responses and the questions left blank by these students:

	Incorrect	Left Blank
Anurag	16, 64	
Beena	7	
Cyrus	25, 34	
Disha	28	16, 25, 34
Edwin	7, 46, 52	
Farhan	16	
Gayatri	7, 52	
Harsh	10	16, 25, 34, 64
Ishmeet	11	7, 16, 52, 64
Jhoolan	25	
Kavita	29	7, 16

How many students answered the test honestly?

How many students copied from two students?

At least how many students must have completed their paper before Edwin?

Harsh must have copied the answers from:

- A. Anurag and Cyrus
- B. Farhan and Cyrus
- C. Kavita and Farhan
- D. Ishmeet



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There are 9 employees in a startup – Abhishek, Bandhan, Chitra, Diksha, Eklavya, Falguni, Gaurav, Himanshi, and Ikshit. Abhishek had to communicate a piece of information to the other employees but not all employees were present in the office together. The information was passed on to each employee only once and each employee passed the information to exactly one other employee except Eklavya, who was the last person to receive the information. The table shows who was present along with whom in the office that day. For example, Chitra met Bandhan, Gaurav, and Himanshi on that day. The names are marked with their initial letters.

	A	B	C	D	E	F	G	H	I
A				Y			Y		
B			Y	Y	Y	Y	Y	Y	Y
C		Y					Y	Y	
D	Y	Y			Y		Y		Y
E		Y		Y			Y		
F		Y							Y
G	Y	Y	Y	Y	Y				
H		Y	Y						
I		Y		Y		Y			

Who was the fourth person to receive the information?

- A. Bandhan B. Diksha C. Gaurav D. Ikshit

If Chitra was the sixth person to receive the information, who was the second?

- A. Falguni B. Himanshi C. Gaurav D. Ikshit

Which of these pairs of persons definitely passed on information between them?

- A. Gaurav-Diksha B. Chitra-Himanshi
C. Diksha-Bandhan D. Ikshit-Bandhan

If Himanshi received the information before Diksha, which of the following is true?

- A. Ikshit was the first person to receive the information
B. The fifth person to receive the information was Diksha
C. Bandhan passed the information to Falguni
D. Gaurav received the information from Chitra

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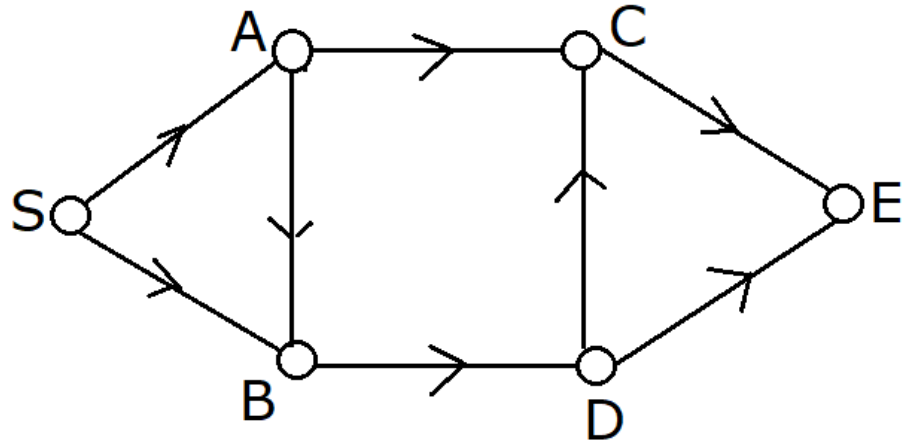


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The following is a network of five dams - A, B, C, D, and E, and S is the source dam, which provides just the necessary supply of water to each of the other dams.



**Answer in
Comments**

The direction of flow in the canals connecting one dam to the other is given in the above diagram. The requirement at any dam and the flow in any of the canals is a positive multiple of 1000 cusecs.

- (i) The requirement at A is 5000 cusecs and that at E is the same as that at B.
- (ii) The requirement at C is twice that at D.
- (iii) The total flow in the canals connecting A and C and that connecting B and D is 9000 cusecs.
- (iv) The flow in the canal connecting S and B is 1000 cusecs less than the flow in the canal connecting S and A.
- (v) The maximum possible flow in any canal is 9000 cusecs
- (vi) For any canal the difference between the maximum possible flow and the actual flow is called the slack in that canal.

What is the total requirement (in cusecs) of water in the five dams?

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Thank
You

