

Bachelor degree
Specialty 073 Management

Educational Professional Program "Aviation Logistics"

Group _____

Name, surname _____

**EXAM TEST ON SUBJECT "AVIATION MANAGEMENT"
VARIANT 1**

THEORETICAL PART:

1. The features of the theory of scientific management by F. Taylor
2. The features of the outsourcing applying in civil aviation.

PRACTICAL PART:

Build six deliveries of aviation spare parts used Inventory Control System (Fixed-Time Period System), when the Basic Data is:

- Demand is 91 250 000 units per year;
- Fixed Order Cost is 50 000 UAH;
- Storage Cost is 0.001 UAH per day;
- Delivery Lead Time is 9 days;
- Delay Time of Delivery is 1 days per 4,5,6 deliveries.
- Period of Control is 365 days.

Acting Head of Logistics Department
Svitlana SMERICHEVSKA

April 4, 2024

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**EXAM TEST ON SUBJECT "AVIATION MANAGEMENT"
VARIANT 2**

THEORETICAL PART:

1. The features of the theory of human relations in management by E. Mayo
2. The features of cluster strategy of airport-hubs.

PRACTICAL PART:

According to the initial data given in table. 1, you should calculate the forecast of air freight data for the 4th year. Detail formulas for determining data smoothing, trend smoothing, seasonality estimates and forecast for period 18.

Table 1 – Air freight data

Month	Year		
	1	2	3
1	335	370	380
2	340	360	390
3	345	370	395
4	345	375	405
5	365	390	420
6	375	395	420
7	380	410	435
8	395	420	440
9	390	415	425
10	380	405	425
11	375	390	410
12	360	385	400

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**EXAM TEST ON SUBJECT "AVIATION MANAGEMENT"
VARIANT 3**

THEORETICAL PART:

1. The features of the theory of classical management by A. Fayol

2. The features of the liberalization of air transport.

PRACTICAL PART:

Build six deliveries of aviation spare parts used Inventory Control System (Fixed-Order Quantity System), when the Basic Data is:

- Demand is 146 000 units per year;
- Fixed Order Cost is 200 UAH;
- Storage Cost is 0.04 UAH per day;
- Delivery Lead Time is 2 days;
- Delay Time of Delivery is 2 days per 4,5,6 deliveries.
- Period of Control is 365 days.

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**EXAM TEST ON SUBJECT "AVIATION MANAGEMENT"
VARIANT 4**

THEORETICAL PART:

1. The features of the theory of rational management by P. Drucker
2. Formation and management of air navigation infrastructure, types and characteristics of services.

PRACTICAL PART:

According to the initial data given in Table 1, you should calculate the forecast of air freight data for the 4th year. Detail formulas for determining data smoothing, trend smoothing, seasonality estimates and forecast for period 19.

Table 1 – Air freight data

Month	Year		
	1	2	3
1	320	345	365
2	325	355	375
3	340	370	385
4	340	365	380
5	355	380	395
6	360	390	405
7	375	395	415
8	375	405	425
9	380	400	415
10	365	385	410
11	360	375	395
12	350	370	400

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**EXAM TEST ON SUBJECT "AVIATION MANAGEMENT"
VARIANT 5**

THEORETICAL PART:

1. Features of Logistics Management for aviation companies
2. Communication and mutual understanding in aviation.

PRACTICAL PART:

Build six deliveries of aviation spare parts used Inventory Control System (Fixed-Time Period System), when the Basic Data is:

- Demand is 3 650 000 units per year;
- Fixed Order Cost is 5 000 UAH;
- Storage Cost is 0.04 UAH per day;
- Delivery Lead Time is 2 days;
- Delay Time of Delivery is 2 days per 3,5,6 deliveries.
- Period of Control is 365 days.

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EXAM TEST ON SUBJECT "AVIATION MANAGEMENT"
VARIANT 6

THEORETICAL PART:

1. The features of national, bilateral and multilateral regulation of international air transport.
2. The geoeconomic effect on aviation.

PRACTICAL PART:

According to the initial data given in Table 1, you should calculate the forecast of air freight data for the 4th year. Detail formulas for determining data smoothing, trend smoothing, seasonality estimates and forecast for period 29.

Table 1 – Air freight data

Month	Year		
	1	2	3
1	305	340	390
2	315	345	395
3	320	350	390
4	325	355	405
5	340	375	410
6	345	370	440
7	360	390	415
8	370	400	420
9	365	405	425
10	350	380	405
11	345	385	410
12	330	380	410

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**EXAM TEST ON SUBJECT "AVIATION MANAGEMENT"
VARIANT 7**

THEORETICAL PART:

1. The features of integrated logistics systems in air transport.
2. The corporate principle of partnership interaction of business entities of the air transportation chain.

PRACTICAL PART:

Build six deliveries of aviation spare parts used Inventory Control System (Fixed-Order Quantity System), when the Basic Data is:

- Demand 146 000 units per year;
- Fixed Order Cost is 20 000 UAH;
- Storage Cost is 4 UAH per day;
- Delivery Lead Time is 4 days;
- Delay Time of Delivery is 1 days per 1,4,5 deliveries.
- Period of Control is 365 days.

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**EXAM TEST ON SUBJECT "AVIATION MANAGEMENT"
VARIANT 8**

THEORETICAL PART:

1. Importance and features of strategic planning in aviation management.
2. The leading role of the interests of consumers - customers of aviation services.

PRACTICAL PART:

According to the initial data given in Table 1, you should calculate the forecast of air freight data for the 4th year. Detail formulas for determining data smoothing, trend smoothing, seasonality estimates and forecast for period 17.

Table 1 – Air freight data

Month	Year		
	1	2	3
1	315	345	380
2	320	345	390
3	310	355	405
4	335	360	400
5	345	370	410
6	355	375	405
7	360	395	415
8	375	410	420
9	365	400	425
10	360	395	415
11	355	390	410
12	340	380	400

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