

Unit 13 - Week 11

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Assignment 11

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-12-02, 23:59 IST.

1) Which of the following is/are the part of Operating Empty Weight? 1 point

- Emergency Equipment
- Cargo Baggage Weight
- Life Rafts and Vests
- Food and Beverages

No, the answer is incorrect.
Score: 0

Accepted Answers:
Emergency Equipment
Life Rafts and Vests
Food and Beverages

2) Maximum Ramp Weight (MRW) is defined as 1 point

- Weight of the Aircraft with Mission Fuel only
- Weight of the Aircraft with Total Fuel, and maximum Payload
- Weight of the Aircraft with Total Fuel, but no Payload
- Weight of the Aircraft Including the Safety Equipment and Crew

No, the answer is incorrect.
Score: 0

Accepted Answers:
Weight of the Aircraft with Total Fuel, and maximum Payload

3) Harmonic Range is defined as 1 point

- Range with Maximum Fuel and Maximum Takeoff Weight
- Range with Maximum Payload and Maximum Takeoff Weight
- Range with Maximum Takeoff Weight and Mission Fuel
- Range with Maximum Payload and Maximum Fuel

No, the answer is incorrect.
Score: 0

Accepted Answers:
Range with Maximum Payload and Maximum Takeoff Weight

4) Which of the following statements is/are TRUE with respect to Aircraft Weight Build Up? 1 point

- Takeoff Weight includes Payload Weight, Fuel Weight and Operating Empty Weight
- Fuel Weight includes Mission Fuel Weight and Reserve Fuel Weight
- Payload Weight includes the Passenger Weight, Baggage Weight and Weight of the equipment for passenger safety
- Payload Weight is limited by Volume or Structural Strength of the Cargo bay
- Operating Empty Weight includes the Weight of the equipment for passenger safety and emergency oxygen equipment

No, the answer is incorrect.
Score: 0

Accepted Answers:
Takeoff Weight includes Payload Weight, Fuel Weight and Operating Empty Weight
Fuel Weight includes Mission Fuel Weight and Reserve Fuel Weight
Payload Weight is limited by Volume or Structural Strength of the Cargo bay
Operating Empty Weight includes the Weight of the equipment for passenger safety and emergency oxygen equipment

5) The following data is related to a transport aircraft:

Maximum Ramp Weight = 60,500 kg
Maximum Payload Weight = 20,000 kg
Operating Empty Weight = 30,000 kg
Fuel required for Warm Up, Taxi-out and Takeoff = 500 kg
Reserve Fuel = 1,000 kg
Specific Range = 0.2 nm/kg

Estimate the Harmonic Range (in nm)

Hint

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Numeric) 1800

1 point

6) Which of these is/are provided to reduce Noise from an aircraft? 1 point

- Creation of contrails behind an aircraft
- Low Bypass Ratio Engines
- Chevron Nozzles
- Geared Turboprops

No, the answer is incorrect.
Score: 0

Accepted Answers:
Chevron Nozzles
Geared Turboprops

7) Which of the Following Statements is/are True? 1 point

- Acceptable level of noise due to aircraft is 90 EPNdB
- Airport Noise Contours are drawn using A-weighted adjustment, i.e., db(A)
- Community Noise Equivalent Level (CNEL) has different weighting factors for day, evening and night
- Effective Perceived Noise Level in dB (EPNdB) takes care of subjective effects of loudness and annoyance, as well as the duration

No, the answer is incorrect.
Score: 0

Accepted Answers:
Airport Noise Contours are drawn using A-weighted adjustment, i.e., db(A)
Community Noise Equivalent Level (CNEL) has different weighting factors for day, evening and night
Effective Perceived Noise Level in dB (EPNdB) takes care of subjective effects of loudness and annoyance, as well as the duration

8) Which of the following parts is/are the major source of noise in an aircraft? 1 point

- Exhaust Jet from engine
- Propeller in case of propeller driven aircraft
- Flap side edge
- Nose gear brake system

No, the answer is incorrect.
Score: 0

Accepted Answers:
Exhaust Jet from engine
Propeller in case of propeller driven aircraft

9) Displacement Noise is caused due to 1 point

- Exhaust of Piston Engines
- Pressure Fluctuations in Boundary Layer
- Rotating Airfoils in Compressor
- Bluff Body Noise

No, the answer is incorrect.
Score: 0

Accepted Answers:
Exhaust of Piston Engines
Bluff Body Noise

10) Clean Fuel produced by the synthesis of H_2 and CO_2 is termed as 1 point

- Biomass-to-Jet
- Alcohol-to-Jet
- Power-to-Jet
- Hydrocarbon-to-Jet

No, the answer is incorrect.
Score: 0

Accepted Answers:
Power-to-Jet