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ASHRAE Healthcare Facility Design Professionals Sample Questions (Q40-Q45):

NEW QUESTION # 40
In accordance with ASHRAE Standard 170, which of the following areas is required to have a positive pressure relationship?

- A. Morgue and autopsy area
- B. Nuclear medicine laboratory
- C. Physical therapy room
- D. Cystoscopy surgical suite

Answer: D

Explanation:
Comprehensive and Detailed Explanation:
Pressure Requirements: ASHRAE 170, Table 7.1, mandates positive pressure for cystoscopy surgical suites (0.01 in. w.g.) to maintain sterility. Morgue/autopsy (C) and some nuclear medicine areas (D) require negative pressure; physical therapy (B) is typically neutral.

NEW QUESTION # 41
In accordance with the ASHRAE HVAC Design Manual for Hospitals and Clinics, which of the following is the BEST form of communication to accomplish good planning, testing, and commissioning?

- A. Written reports
- B. Phone message logs
- C. Requests for information
- D. Change orders

Answer: A

NEW QUESTION # 42
An airborne infection isolation (AII) patient room has a volume of 1,100 cubic feet (31.15 m^3) and requires a minimum supply airflow of 12 air changes per hour (ACH). Airflow across the door to maintain pressurization is 150 CFM (70.8 L/s). Leakage and toilet room exhaust is 130 CFM (61.4 L/s). What airflow should the exhaust fan serving the patient room and toilet room be sized for?

- A. 150 CFM (70.8 L/s)
- B. 70 CFM (33.0 L/s)
- C. 370 CFM (174.6 L/s)
- D. 500 CFM (236.0 L/s)

Answer: C

Explanation:
Comprehensive and Detailed Explanation:
Supply Air: 12 ACH × 1,100 ft^3 / 60 = 220 CFM.
Exhaust Requirement: Exhaust = Supply + Leakage + Door Airflow = 220 + 130 + 150 = 500 CFM.
However, toilet exhaust (130 CFM) is included, so room exhaust = 500 - 130 = 370 CFM.

NEW QUESTION # 43
The isolation room is supplied with 300 cfm (142 L/s) of HEPA filtered air. The return air grille is located in the ceiling and has been balanced to 150 cfm (71 L/s). The room is monitored with a differential pressure sensor, and the sensor is sending an alarm signal to the nurse's station. Which of the following BEST describes the problem?

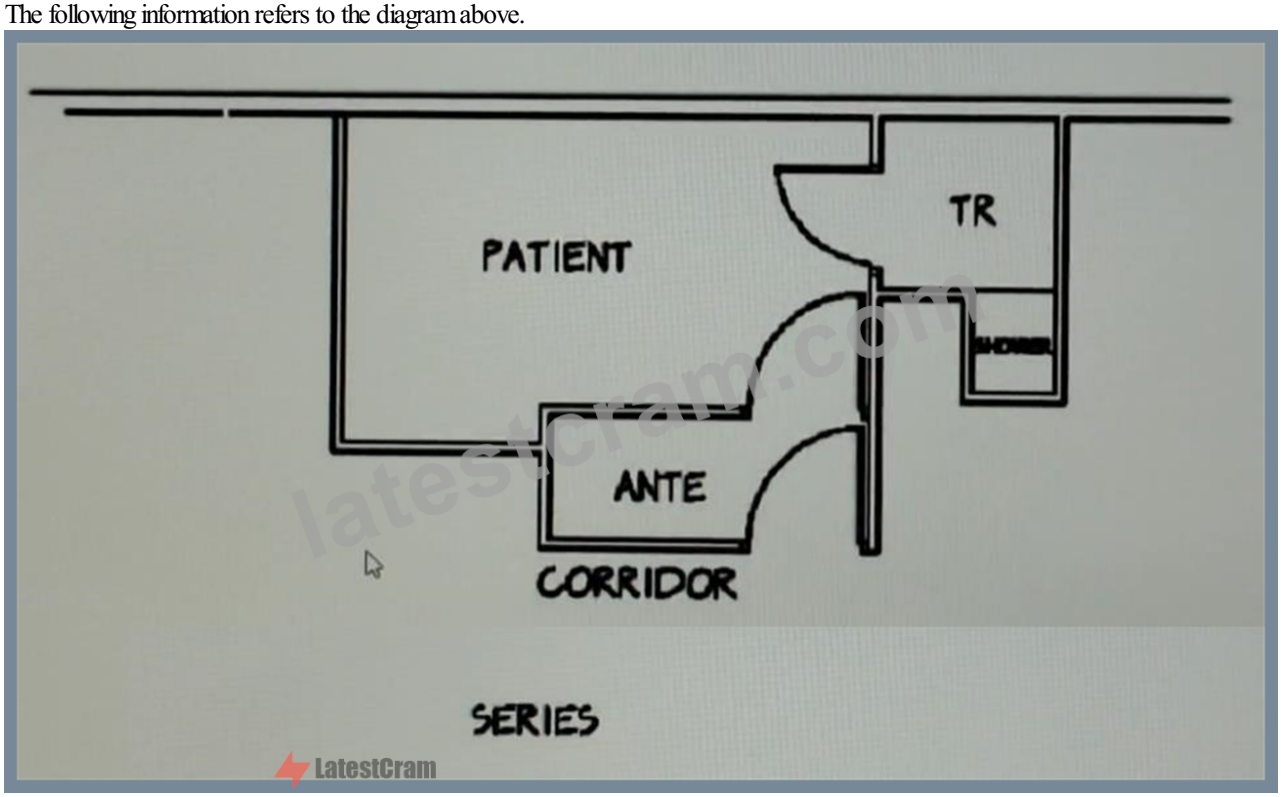
- A. This is a Protective Environment Room with the door to the corridor propped open
- B. This is an Airborne Infection Isolation Room with inadequate toilet room exhaust of 25 cfm (12 L/s)
- C. This is an Airborne Infection Isolation Room with the door to the corridor propped open

- D. This is a Protective Environment Room with inadequate toilet room exhaust of 25 cfm (12 L/s)

Answer: B

Explanation:
Comprehensive and Detailed Explanation:
Airflow Analysis: Supply = 300 cfm, Return = 150 cfm, Toilet Exhaust = 25 cfm. Total exhaust = 150 + 25 = 175 cfm. Net airflow = 300 - 175 = +125 cfm (positive pressure).
AIIR Requirements: ASHRAE Standard 170, Section 7.2.1, mandates negative pressure for Airborne Infection Isolation Rooms (AIIRs), meaning exhaust must exceed supply. Here, the room is positive (+125 cfm), triggering the pressure sensor alarm.
Problem Identification: The toilet exhaust (25 cfm) is insufficient to offset the supply, failing to achieve negative pressure. AIIRs typically require 50-75 cfm exhaust per toilet (Table 7.1), so 25 cfm is inadequate.
Option Analysis:
A: Correct-insufficient exhaust explains the positive pressure in an AIIR.
B: An open door would reduce pressure differential but not explain the airflow imbalance.
C/D: Protective Environment (PE) rooms require positive pressure, which aligns with the +125 cfm, but the alarm suggests an AIIR (negative pressure) context.

NEW QUESTION # 44
The following information refers to the diagram above.



The following information refers to the diagram above:
* The room is an Airborne Infection Isolation Room with a series anteroom.
* The room volume is 960 cubic ft. (27 cubic m).
* The room cooling load is 4,000 Btu/hr sensible only. (Ignore latent loads.) (1172 W)
* The supply air temperature is 55° F (12.8° C), and the room temperature set point is 75° F (23.9° C).
* The toilet exhaust is 100 cfm (47.2 L/s).
* The total room envelope leakage area is 35 sq. in. (22.575 sq. cm), (A_L).
* The anteroom supply air volume is 75 cfm (35 L/s).
* The design pressure difference complies with FGI Guidelines (D_p) (in. water/kPa).
* The room air flow difference (Q_d) is defined by the following:
Q_d = (7p)