

I round

BASIC SCIENCE

- Each team will be getting 3 questions
- 30 sec to answer
- 5 mark for correct answer
- No negative mark
- First answer will be taken into account
- Other team can answer – 3 mark (if not answered by primary team)

# Team A

- Indian society of Anaesthesiologists was born on
- December 30, 1947
- October 16 , 1947
- August 15, 1947
- November 30, 1947

# Team B

- The ISA society separated from the joint organization of Surgical and Obstetric and established as independent society in
- 1965
- 1964
- 1960
- 1962

# Team C

- First publication of Indian journal of Anaesthesia was published at
- 1950
- 1952
- 1951
- 1953

# Team D

- Who is this Lady ?
- Dr. (Miss) Rupa Bai Furdoonji v  
of the world



# Team E

- What is the significance of 23<sup>rd</sup> october 2018 ?
- WORLD RESTART A HEART DAY
- A LIFE SAVER IN EACH HOME
- INDIAN RESUSCITATION COUNCIL.

# Audience

- What is this 4 lines stand for ?
- Based on TOF tracing but actually represents INTEGRITY,ETHICS,HONESTY and KNOWLEDGE.....Highest importance given to INTEGRITY.
- Designed by Dr. Bala Baskar,
- past Editor IJA,
- President ISA 18-19

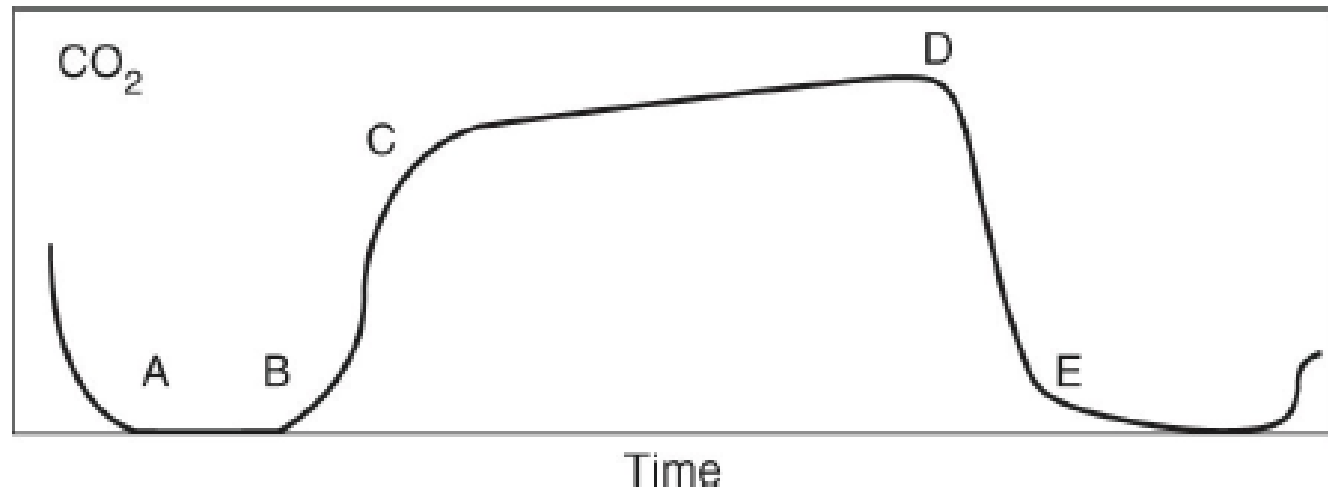




# Team A

- In the capnogram below, the segment that correlates with the exhalation of anatomic dead space is represented by points

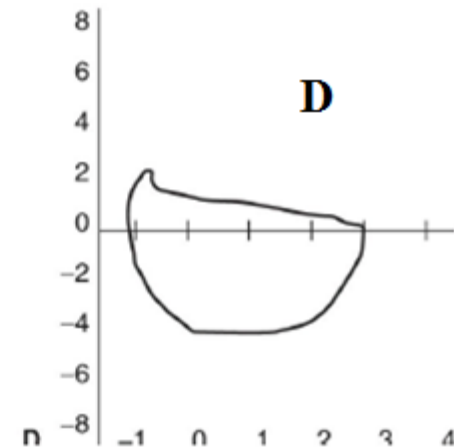
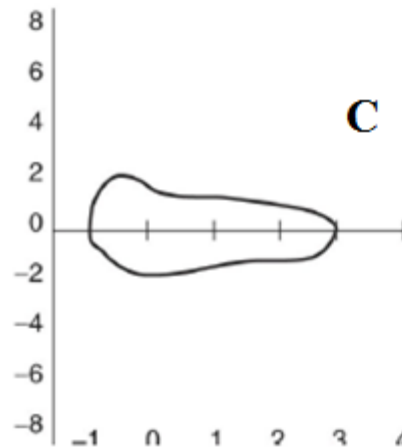
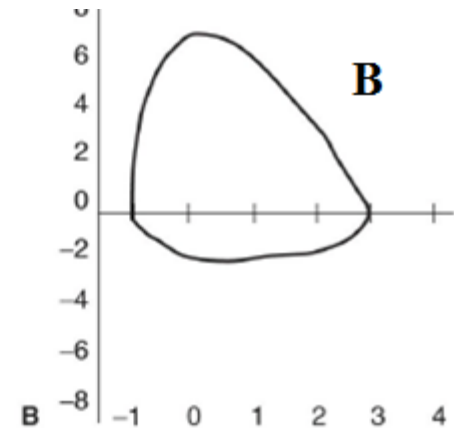
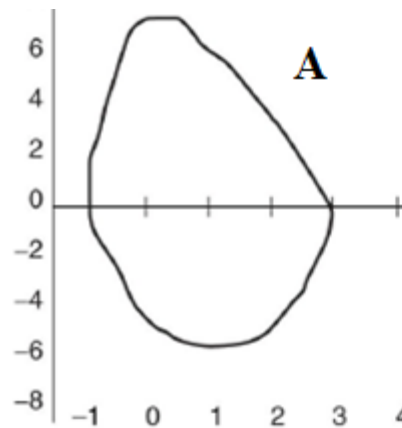
- A. A to B
- B. A to C
- C. C to D
- D. D to E



# Team B

- The flow–volume loop that would be most consistent with dynamic intrathoracic obstruction is

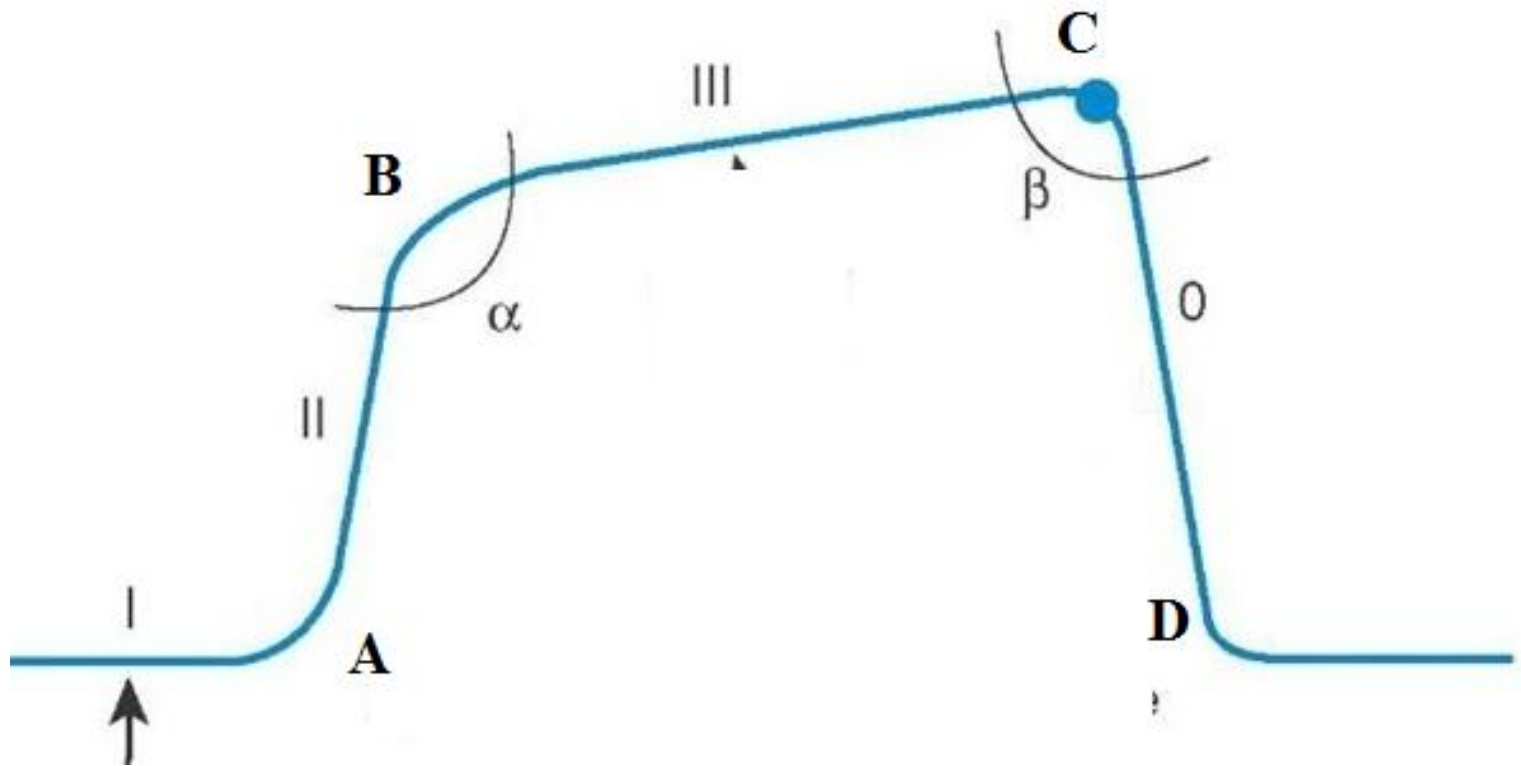
- D



Team C

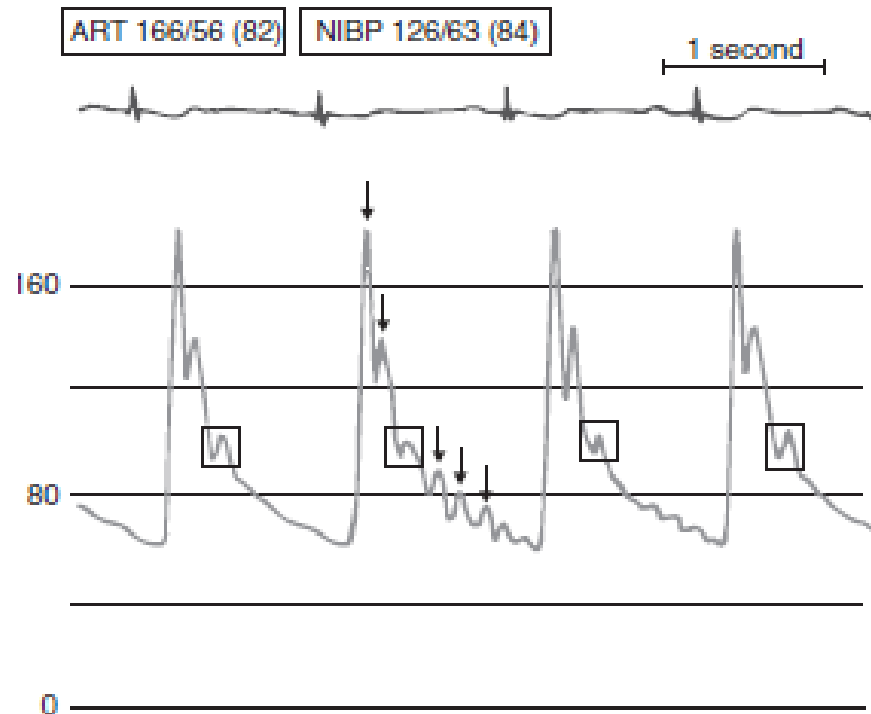
What is the significance C ?

Point of measuring EtCo<sub>2</sub> value



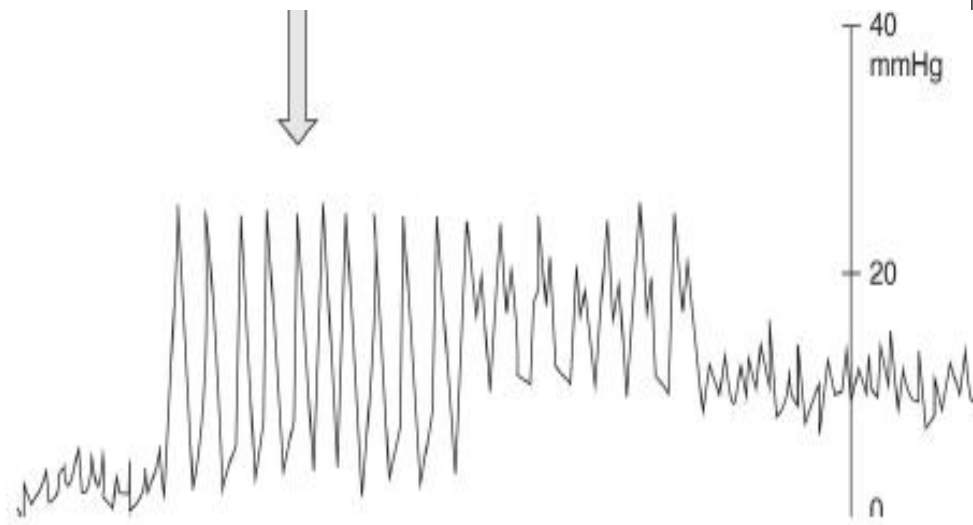
# Team D

- The arrows in the figure above indicate
- A. Respiratory variation
- B. An underdamped signal
- C. An overdamped signal
- D. Atrial fibrillation



# Team E

- During placement of a pulmonary artery catheter, the point indicated by the arrow, the catheter tip is located in the
  - A. Right atrium
  - B. Right ventricle
  - C. Pulmonary artery
  - D. Wedge position



# Audience

Signs of substance abuse inside the hospital include all of the following EXCEPT:

- A. Signing out large quantities of narcotics
- B. Refusing breaks
- C. Volunteering to relieve others and taking extra calls
- D. Disappearing between cases
- E. Their postoperative patients frequently are oversedated with opioids

# TEAM A

- change in the critical temperature and pressure of one gas when it is mixed with another gas IS KNOWN AS ?
- Poynting effect or overpressure effect
- Poynting effect is seen in Entonox cylinders which contains a mixture of 50:50 of nitrous oxide and oxygen.

# TEAM B

- The fluid velocity must increase through the constriction while its pressure must decrease due to conservation of energy: the gain in kinetic energy is supplied by a drop in pressure or a pressure gradient force
- WHAT IS THIS CALLED AS ?
- Bernoulli effect- -principle behind pethick test



# TEAM C

- a jet flow attaches itself to a nearby surface and remains attached even when the surface curves away from the initial jet direction
- WHAT IS THIS KNOWN AS ?
- Coanda effect

# TEAM D

- \_\_\_\_\_ is the critical pO<sub>2</sub> for oxidative phosphorylation in mitochondria. It is considered to be around 1mmHg. If pO<sub>2</sub> falls below this value then aerobic metabolism will cease and anaerobic metabolism occurs
- Pasteur point

# TEAM E

- Increase in the concentration of carbon dioxide will displace oxygen from hemoglobin and binding of Oxygen with Hemoglobin in turn will displace Carbon dioxide from blood.
- NAME THE PRINCIPLE ?
- Haldane effect

# Audience

For a malpractice suit against a physician to succeed, the patient/plaintiff must prove all of the following EXCEPT:

- A. Breach of duty
- B. Loss of income
- C. Causation
- D. Duty
- E. Damages

- B

- Duty → breach → damage → casual relation