

Calculations

- 5 questions
- All teams can attempt
- Only the First to finish can answer
- 10 mark for correct answer
- 5 mark will be deducted for wrong answer
- It is their choice not to attempt

I question

- Calculate the rapid shallow breathing index for
- RR 35
- TV 200ml
- PEFr 400l/min
- PIP 22)

- $RSBI = RR / TV$
- $35 / 0.2$
- 175

II question

- Calculate the Dynamic compliance
- Tidal volume 400ml
- Pplat 20
- PIP 22
- PEEP 2

- $C\text{-dyn} = TV / (PIP - PEEP)$
- $400 / (22 - 2)$
- 20

III question

- Calculate Arterial oxygen content?
- Hb-10g/dl
- SaO₂-100%
- PaO₂-100mmhg

- Arterial O₂ content=
- $1.34 \times \text{Hb} \times \text{SaO}_2 + 0.003 \times \text{PaO}_2$
- $1.34 \times 10 \times 1.0 + 0.003 \times 100$
- $13.4 + 0.3 = 13.7$

IV question

- Discarding 200 ml from 1 pint of D5 and adding 0.1 L of 25% Dextrose will result in ??

- 400 ml of 10 D
- After discarding D5 will have 150 g dextrose
- 100 ml 25D will have 250 g
- When added 400 g will be there in 400 ml

V question

- What is the maximum allowable blood loss (MABL) for a 10-kg, 11-month-old infant whose starting hematocrit (Hct) is 40 and the minimal acceptable Hct is 30?

- $MABL = EBV \times (H_i - H_f) / H_i$
- $EBV = 80 \text{ ml/kg}$ for infants
- $800 \times (40 - 30) / 40$
- $800 \times 10 / 40 = 200 \text{ ml}$

Audience

- How much to charge for a ASA III lap hernia repair extending 4 hours and requiring two post op visit ??

- RVG system
- OT manage APP

THANK YOU

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