

**B.Sc. IN ANAESTHESIA AND CRITICAL CARE
TECHNOLOGY (BACT)**

Term-End Examination

June, 2015

BAHI-077 : REGIONAL ANAESTHESIA

Time : 3 hours

Maximum Marks : 70

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- Note :** (i) *Attempt all the questions from Part - A*
(ii) *Attempt any five questions from Part - B*
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PART - A

1. Choose the most appropriate answer : **1x10=10**
- (a) The following are central neuraxial block except.
- (i) Subarachnoid block
 - (ii) Brachial block
 - (iii) Saddle block
- (b) Ideal level of block for a caesarian section is :
- (i) T₁₂
 - (ii) T₁₀
 - (iii) T₆
- (c) Adrenaline is added to the local anaesthetic to :
- (i) increase the duration of action
 - (ii) prevent hypotension
 - (iii) prevent cardiac arrest

- (d) The name of the epidural needle is :
- (i) Whitacre needle
 - (ii) Quincke's needle
 - (iii) Touhy's needle
- (e) Bupivacaine used for spinal anaesthesia contains :
- (i) Dextrose
 - (ii) Sodium chloride
 - (iii) Sodium bicarbonate
- (f) Drug used to treat bradycardia following spinal anaesthesia is :
- (i) atropine
 - (ii) ephedrine
 - (iii) mephentermine
- (g) The concentration of Adrenaline used in xylocaine 2% (vial) is :
- (i) 1 : 2,00,000
 - (ii) 1 : 1,000
 - (iii) 1 : 10,000
- (h) The most prominent spine of the vertebra is :
- (i) C₂
 - (ii) C₇
 - (iii) T₁₀
- (i) Epidural space is between :
- (i) Duramater and arachnoid membrane
 - (ii) Duramater and ligamentum flavum
 - (iii) Piamater and arachnoid membrane

- (j) More cardiotoxic local anaesthetic is :
- (i) lignocaine
 - (ii) Bupivacaine
 - (iii) Ropivacaine

2. Fill in the blanks :

1x10=10

- (a) In adults spinal cord ends at _____ level.
- (b) _____ nerve block is very useful in fracture of ribs.
- (c) The safe dose of Bupivacaine is _____ mg per kg.
- (d) EMLA cream is applied _____ hour before the procedure.
- (e) Sacral hiatus is covered by the _____ membrane.
- (f) Epidural space is widest at _____ level.
- (g) PDPH is due to _____ leak from the subarachnoid space
- (h) Lower spinal nerve roots are called _____.
- (i) Bromage scale is used to assess _____.
- (j) 2% xylocaine contains _____ mg/ml

PART - B

Answer any five of the following : 10x5=50

3. Describe the anatomy of the vertebral column.
Draw the cross section and label the parts.
 4. How will you assist the anaesthesiologist to give spinal anaesthesia for a caesarian section ? What are the complications ?
 5. Describe different methods to give a brachial Plexus block what are the complications.
 6. Write in detail the procedure of candal block in a 4 year old child
 7. Compare central neuraxial block with general anaesthesia.
 8. Describe with the help of a diagram epidural needle and catheter. How will you manage the complications of epidural anaesthesia ?
 9. Write short notes on :
 - (a) IVRA
 - (b) Adjuvants used (drug added) to local anaesthetics.
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