

## **BRAINWARE UNIVERSITY**

## **Term End Examination 2020 - 21**

Programme – Bachelor of Science in Physician Assistant
Course Name – Basic Anesthesia
Course Code - BPA303
Semester / Year - Semester III

Time allotted: 75 Minutes

Full Marks: 60

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

answers in their own wo	orus as rai as practicable.	
Gro	oup-A	
(Multiple Ch	oice Type Question)	1 x 60=60
(Answer any Sixty)		
i) The persistent suppression of bacterial gexposure to some antimicrobial drug is called	•	nited
a) Time dependent killing	b) Post antibiotic effect	
c) Concentration dependent killing	d) Sequential blockade	
(ii) Which of the following drug is bacteric	idal?	
a) Sulfonamides	b) Erythromycin	
c) Chloramphenicol	d) Cotrimoxazole	
(iii) Which of the following is a broad speci	trum antibiotic?	
a) Erythromycin	b) Streptomycin	
c) Tetracycline	d) All	
(iv) Drug resistance transmitting factor pres	sent in bacteria is:	
a) Plasmid	b) Chromosome	
c) Introns	d) Centromere	
(v) Which antibiotic acts by inhibiting prote	ein synthesis?	
a) Cefotetan	b) Doxycycline	
c) Ciprofloxacin	d) Oxacillin	

(VI) General anaestnesia includes-	
a) Analgesia	b) Amnesia
c) Temporary loss of consciousness	d) All of these
(vii) Which of the following antitubercular	drugs is safe in hepatitis?
a) Isoniazid	b) Rifampicin
c) Pyrazinamide	d) Ethambutol
(viii) A middle aged man with chronic renal sputum-positive pulmonary tuberculosis. He All of the following drugs need modification	is creatinine clearance is 25 ml/min.
a) Isoniazid	b) Streptomycin
c) Rifampicin	d) Ethambutol
(ix) Prolonged treatment with INH leads to	deficiency of?
a) Pyridoxine	b) Thiamine
c) Pantothenic acid	d) Niacin
(x) Dissociative anaesthesia is caused by-	
a) Propofol	b) Etomidate
c) Ketamine	d) None of these
(xi) Side effects of halothane are-	
a) Hepatitis	b) Malignant hyperthermia
c) Both	d) None
(xii) Most of the general anaesthetic agent of	causes-
a) Hyperpolarisation	b) Hypopolarisation
c) Lowers peak of action potential	d) Both Hyperpolarisation and Lowers peak of action potential

(xiii) Medullary paralysis occurs in which sta	age of anaesthesia?
a) Stage 1	b) Stage 2
c) Stage 3	d) Stage 4
(xiv) Outpatient surgery can be done with wl	nich of the following agents?
a) Sevoflurane	b) Desflurane
c) Both Sevoflurane and Desflurane	d) None of these
(xv) Second gas phenomenon is exhibited by	7
a) Nitrous oxide	b) Ether
c) Carbon dioxide	d) Oxygen
(xvi) Which of the following are inducing ag	gents?
a) Thiopentone	b) Methohexitone
c) Ketamine	d) All of these
(xvii) PRIS is caused by:	
a) Pentoxifylline	b) Procaine
c) Propofol	d) Prilocaine
(xviii) Thiazide diuretics can be used for the EXCEPT:	treatment of all of these conditions
a) Idiopathic hypercalciurea with nephrocalcinosis	b) Hyperlipidemia
c) Congestive Heart Failure	d) Hypertension
(xix) High ceiling diuretics are useful in the conditions except:	treatment of all of the following
a) Generalized edema	b) Cerebral edema
c) Acute pulmonary edema	d) Pulmonary hypertension

(xx) Which one of the following is no	t a clinical use of spironolactone?
a) Pulmonary edema	b) Hypertension
c) Congestive heart failure	d) To counteract hypokalemia due to thiazide diuretics
(xxi) All of the following are potassiu	m sparing diuretics except:
a) Triamterene	b) Spironolactone
c) Amiloride	d) Indapamide
(xxii) Site of action of ADH is:	
a) PCT	b) DCT
c) Collecting tubule	d) Ascending loop
(xxiii) K+ sparing diuretic is:	
a) Furosemide	b) Spironolactone
c) Thiazide	d) None of these
(xxiv) Diuretics that can be used in re	nal failure is:
a) Furosemide	b) Chlorthiazide
c) Mannitol	d) None of these
(xxv) Which of the following skeletal	muscles is relaxed first by tubocurarine?
a) Respiratory	b) Fingers
c) Limbs	d) Head and neck
(xxvi) The Muscle relaxant of choice	in liver disease is
a) Atracurium	b) Rocuronium
c) Pipecuronium	d) Vecuronium
(xxvii) Laudanosine is a metabolite of	f
a) Atracurium	b) Rocuronium

c) Pipecuronium	d) Vecuronium
(xxviii) The shortest acting non-depolarizing m	nuscle relaxant is:
a) Succinyl choline	b) Rapacuronium
c) Atracurium	d) Pancuronium
(xxix) The neuromuscular blocker that does no neostigmine at the end of the operation is:	t need a reversal of action by
a) d-Tubocurarine	b) Doxacurium
c) Pipecuronium	d) Mivacurium
(xxx) One of the following statements about su	ccinylcholine is true:
<ul><li>a) It may induce life threatening hyperkalemia</li></ul>	b) It has a long duration of action
c) It is the drug of choice in non traumatic rhabdomyolysis	d) It is useful in patients with spinal cord injuries with paraplegia
(xxxi) 'Second gas effect' is exerted by which coadministered with halothane:	of the following gas when
a) Cyclopropane	b) Nitrogen
c) Nitrous oxide	d) Helium
(xxxii) Baclofen is used in the treatment of:	
a) Schizophrenia	b) Anxiety
c) Depression	d) Spasticity
(xxxiii) Which of the following agents is most anaesthesia:-	commonly used to induce
a) Thiopentone sodium	b) Propofol
c) Methohexitone sodium	d) Etomidate

(xxxiv) Short-acting non-depolarizing blocke	er is:
a) Rocuronium	b) Mivacurium
c) Suxamethonium	d) Pancuronium
(xxxv) True statements regarding halothane	is:
a) Hepatitis occurs in susceptible individuals after repeated dose	b) It potentiates competitive neuromuscular blockers
c) Causes respiratory depression	d) All of these
(xxxvi) A patient, Tina was anesthetized with tubocurarine was used for skeletal muscle re- along with marked muscle rigidity and hyper- she has developed hyperkalemia and acidosis- by:	laxation. She became hypertensive rthermia. Lab reports showed that
<ul><li>a) Block of autonomic ganglia by tubocurarine</li></ul>	b) Activation of brain dopamine receptors by halothane
c) Pheochromocytoma	d) Excessive release of calcium from the sarcoplasmic reticulum
(xxxvii) Hallucinations are seen after	anaesthesia:
a) Ketamine	b) Thiopentone
c) Fentanyl	d) Nitrous oxide
(xxxviii) Malignant hyperthermia is a rare confollowing anaesthetic:	omplication of the use of the
a) Ketamine	b) Thiopentone sodium
c) Halothane	d) Ether
(xxxix) The minimal alveolar concentration measure of its:	of an inhalational anaesthetic is a
a) Potency	b) Therapeutic index
c) Diffusibility	d) Oil: water partition coefficient

(xl) Shortest acting non-depolarizing muscle re	laxant is:
a) Succinyl choline	b) Rapacuronium
c) Atracurium	d) Pancuronium
(xli) All of the following are the true for post lu	ımhar nuncture headache evcent:
a) Presents 12 hours after procedure	b) Pain is relieved in standing position
•	
c) Pain is worsened by headshaking	d) Pain is occipito-frontal in location
(xlii) Local anesthetic not recommended for per	ripheral nerve blockade:
a) lidocaine (Xylocaine)	b) bupivacaine (Marcaine)
c) ropivacaine (Naropin)	d) tetracaine (pontocaine)
(xliii) Which of the following agents is most coanaesthesia:	ommonly used to induce
a) Thiopentone sodium	b) Methohexitone sodium
c) Propofol	d) Etomidate
(xliv) Neurotoxicity following local anesthesia: predisposing conditions may include advanced disease	• 1
a) transient radicular irritation	b) cauda equina syndrome
c) anterior spinal artery syndrome	d) None of these
(xlv) Local anesthetic lipophilicity and effective anesthesia:	eness of epinephrine on local
a) more lipophilic anesthetics benefit most by epinephrine in addition to local anesthetic solutions	b) more lipophilic anesthetics benef ileast by epinephrine in addition to local anesthetic solutions
c) Both more lipophilic anesthetics benefit most by epinephrine in addition to local anesthetic solutions and more lipophilic anesthetics benef ileast by epinephrine in	d) None of these

## addition to local anesthetic solutions

(xlvi) The term balanced anaesthesia h	as been given by:
a) Simpson	b) Fischer
c) Lundy	d) Mortan
(xlvii) Ester-type local anesthetic:	
a) lidocaine (Xylocaine)	b) ropivacaine (Naropin)
c) tetracaine (pontocaine)	d) dibucaine (Nupercainal, generic)
(xlviii) Factors influencing local anestle concentrations:	hetic distribution and plasma
a) liver function	b) cardiovascular status
c) extent of protein binding	d) All of these
(xlix) Factors that influence local anes	thetic absorption and distribution:
a) dosage	b) presence of epinephrine in the local anesthetic solution
c) injection site	d) All of these
(l) The enzyme pseudocholinesterase a	acts on:
a) Decamethonium	b) Tubocurarine
c) Gallamine	d) Succinylcholine
(li) Shortest acting benzodiazepine am	ong these is:
a) Flurazepam	b) Alprazolam
c) Triazolam	d) Diazepam
(lii) Which drug is used for pain contro	ol in cancer patients?
a) Pethidine	b) Fentanyl
c) Methadone	d) Remifentanil

(liii) Local anesthetics: chemical properties	
a) many local anesthetics are chiral	b) enantiomers are often less toxic than racemates and many local anesthetics are chiral
c) ropivacaine (Naropin) is an example of a pure R enantiomer	d) all of these
(liv) Propranolol (Inderal) local anesthetic eff	fect(s):
a) inhibits bupivacaine (Marcaine) extraction	b) increases lidocaine (Xylocaine) plasma clearance
c) Both inhibits bupivacaine (Marcaine) extraction and increases lidocaine (Xylocaine) plasma clearance	d) None of these
(lv) Enhancement of spinal anesthesia by the pranesthetics: Reason(s)	esence of epinephrine in local
a) increased substance P release	b) increased dorsal horn neuronal activity
c) decreased local neuronal uptake	d) none of these
(lvi) Most effective non habit forming sedative	is:
a) Lorazepam	b) Zolpidem
c) Flurazepam	d) Trazadone
(lvii) All of the following are halogenated anaes	sthetic agents except:
a) Halothane	b) Propofol
c) Enflurane	d) Isoflurane
(lviii) Chlorzoxazone is used in the treatment of	f:
a) Anxiety	b) Depression
c) spasticity	d) Schizophrenia
(lix) Eutectic mixture of local anaesthetic (EMI	A) cream is:

- a) Bupivacaine 0.5% + Lidocaine 2.5%
- b) Lidocaine 2.5% + Prilocaine 5%
- c) Bupivacaine 2.0% + Prilocaine 2.5%
- d) Lidocaine 2.5% + Prilocaine 2.5%
- (lx) Regarding propofol, which one of the following is false:
  - a) It has no muscle relaxant property
- b) It is painful on injecting intravenously

c) It causes severe vomiting

d) It is used as an intravenous induction agent