



BRAINWARE UNIVERSITY

Term End Examination 2021 - 22

Programme – Bachelor of Science in Physician Assistant

Course Name – Perfusion Technology

Course Code - BPA601

(Semester VI)

Time allotted : 1 Hrs.15 Min.

Full Marks : 60

[The figure in the margin indicates full marks.]

Group-A

(Multiple Choice Type Question)

1 x 60=60

Choose the correct alternative from the following :

- (1) SLED is :

a) Slow Low Efficiency Dialysis	b) Super Light Efficient Dialysis
c) Slow Light Efficiency Dialysis	d) Slim Light Efficiency Dialysis
- (2) Hemodialysis is also known as :

a) Kidney transplant therapy	b) Kidney replacement therapy
c) Renal Replacement Therapy	d) Renal Perfusion Therapy
- (3) Plasmapheresis is used as therapeutic tool in :-

a) Gullian Barre Syndrome	b) Demyelinating Neuropathy
c) Lower Motor Neuron Lesion	d) Upper Motor Neuron Lesion
- (4) Antidote of heparin is :-

a) Protamine Sulphate	b) Glycosaminoglycans
c) Mucopolysaccharides	d) Glucosamine
- (5) Oxygenator in an extracorporeal circuit :-

a) Oxygenates the arterial blood.	b) Oxygenates venous blood.
c) Oxygenates priming solution.	d) Oxygenates filters.
- (6) Which of the following statements is false ?

a) Membrane oxygenator is better than bubble oxygenator for prolonged cardiac surgeries.	b) Filter prevents debris from the operating site to reach the oxygenator.
c) Bubble oxygenator is better than membrane oxygenator.	d) Centrifugal pump is used in an extracorporeal circuit.
- (7) ECMO stands for:-

a) Extracardiac membrane oxygenation.	b) Extracorporeal membrane oxygenation.
c) Extracavernous membrane oxygenation.	d) Extrachitinous membrane oxygenation.
- (8) Which of the following is not a mode of mechanical ventilation?

a) Volume Control.	b) Pressure Control
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- c) SIMV
d) Volume Load.
- (9) Barotrauma can be caused in which mode of mechanical ventilation?
a) Volume Control
b) Pressure Control
c) SIMV
d) Pressure Support
- (10) Volu-trauma can be caused in which mode of mechanical ventilation?
a) Volume control
b) Pressure control
c) SIMV
d) Pressure support
- (11) PEEP stands for :-
a) Positive Expiratory End Pressure.
b) Peak Exit End Pressure.
c) Peak Entry End Pressure
d) Peak Effusion End Pressure.
- (12) Increase in PEEP will:-
a) Deflate alveoli in lungs.
b) Inflate alveoli in lungs.
c) Will produce no change in alveoli.
d) Will increase blood pressure.
- (13) FiO₂ stands for :-
a) Fraction of Inspired Oxygen.
b) Fractionated Inspired Oxygen.
c) Fractionally inspirational oxygen.
d) Fractional oxygen inspiration.
- (14) NAVA stands for:-
a) Neurally Adjusted Ventilatory Assist.
b) Assisted neurological ventilation.
c) Neurally automated Ventilatory assist.
d) Neural auxiliary ventilation assist.
- (15) Contraindication of NAVA is:-
a) Low respiratory drive.
b) Erratic respiratory drive.
c) Anatomical defect in diaphragm.
d) Synchronous respiratory drive.
- (16) LMA stands for:-
a) Laryngeal Mask Airway.
b) Larynx mediated airway.
c) Ladies mask airway.
d) Laryngeal Medicated Airway.
- (17) Which of the following is a “supraglottic internal airway device”?
a) Endotracheal tube.
b) Venturi mask.
c) Nasal Cannula.
d) LAMA.
- (18) Adenosine is the drug of choice in:-
a) Atrial fibrillation
b) Ventricular fibrillation
c) Paroxysmal supraventricular tachycardia
d) Atrial flutter.
- (19) Pacemaker of the heart is
a) Sinoatrial node
b) AV Node
c) Purkinje Fibres
d) Bundle Of His
- (20) “Asystole” in ecg is seen in case of
a) Death
b) Strenuous Exercise
c) Sleep
d) Sedentary work
- (21) Third degree AV block is an indication for
a) Angioplasty
b) Angiography
c) CABG
d) Permanent pacemaker
- (22) A reduced hemoglobin in blood can be found in which of the following?
a) Heart Block
b) Chronic Kidney Disease
c) Ischaemic heart disease
d) Cardiomyopathy
- (23) Thrombocytopenia is seen in which of the following?
a) Malaria
b) Treponemosis

- c) Aspergillosis
- (24) "NK" in NK cells stands for
- a) Natural Killer
b) Neutral Killer
c) Normal Killer
d) Nutrient Killer
- (25) Which WBC has the maximum phagocytotic activity?
- a) Monocytes
b) Lymphocytes
c) Neutrophils
d) Basophil
- (26) Which is true?
- a) Using Albumin+Saline solution instead of FFP reduces chances of contracting Hepatitis in plasmapheresis
b) Hemolytic reaction is never seen in case of plasmapheresis with FFP
c) Both a & b are correct
d) None of the above.
- (27) Which is not a complication of plasmapheresis?
- a) Haematoma
b) Retroperitoneal bleed
c) Hypotension
d) Atrial fibrillation
- (28) Which of the following is not an immunosuppressive drug used in autoimmune disease?
- a) Prednisolone
b) Cyclophosphamide
c) Azathioprine
d) Amlodipine
- (29) "AMBU" used to ventilate a patient stands for
- a) Ambulatory Manual Breathing Unit
b) Analogous Manual breathing unit
c) Automated manual breathing unit.
d) Asian manual breathing unit
- (30) True about d-tubocurarine used in anaesthesia
- a) It is a competitive neuromuscular blocker
b) It is a non competitive neuromuscular blocker
c) It is a short acting muscle relaxant
d) It does not cause neuromuscular blockade
- (31) The preferred ultra short acting muscle relaxant for endotracheal intubation is
- a) D-tubocurarine
b) Succinylcholine
c) Lorazepam
d) Ketamine
- (32) True about TIVA is
- a) Inhalational agents are used for inducing anaesthesia
b) Propofol is not used
c) Patient does not lose consciousness
d) General anaesthesia is done with intravenous administration of drugs only
- (33) Ground glass appearance of lung in chest xray is suggestive of
- a) Pulmonary oedema
b) Tuberculosis
c) Pneumonia
d) Pneumonitis
- (34) Which of the following does not present with miliary mottling in chest xray?
- a) Tuberculosis
b) Sarcoidosis
c) Hemosiderosis
d) Pneumonia
- (35) HRCT thorax is the investigation of choice for
- a) Interstitial Lung Disease
b) TB
c) Pneumonia
d) Pneumothorax
- (36) Which of the following about haemoglobin is false?
- a) It is a conjugate protein
b) It exhibits the Bohr effect
c) It acts as a buffer
d) Has more affinity for oxygen than carbon monoxide
- (37) Arch of Aorta is seen best in which view of echocardiography?

- a) Apical 4 chamber view
c) Subcostal 4 chamber view
- (38) True about cardioplegia is
a) It is a pharmacological therapy
c) Both a & b are correct
- (39) Indication for hemodialysis is
a) Acidosis
c) Hyperkalemia
- (40) Dialyser membranes are not made up of
a) Cellulose
c) Hemophan
- (41) True about complications of hemodialysis is:-
a) Hypotension is the least common complication.
c) Headache is a rare complication
- (42) Which is not the cause of hypotension during hemodialysis?
a) Arrhythmias.
c) Eating during dialysis.
- (43) Hypotension in hemodialysis is treated by:-
a) L-carnitine.
c) Midodrine.
- (44) True about "Disequilibrium Syndrome" is:-
a) There is acute increase in brain water content.
c) Intravenous mannitol worsens symptoms
- (45) Most common form of AV fistula created in patients requiring hemodialysis is
a) Brachiobasilic fistula.
c) Radiocephalic fistula.
- (46) Not a part of the blood delivery system of a dialyser is:-
a) Air traps
c) Air detector.
- (47) ECMO is:-
a) Bridge to recovery.
c) Bridge to Transplant
- (48) Indications for Venovenous ECMO are all except :-
a) ARDS.
c) Pulmonary contusion.
- (49) CESAR trial is related to:-
a) CPB.
c) CABG.
- (50) TRALI is due to excessive:-
a) Packed cell transfusion.
c) Plasma transfusion
- (51) First successful case of ECMO in the world was carried out in:-
a) 1975
c) 1978
- b) Apical 2 chamber view
d) Suprasternal view
- b) It is a temporary cardiac arrest
d) None of the above are correct
- b) Pulmonary Oedema
d) All of the above
- b) PMMA
d) Plastic
- b) Itching can occur due to hypersensitivity to dialyser membrane.
d) Muscle relaxation occurs.
- b) Diastolic dysfunction.
d) Low dialysis solution temperature.
- b) Sertaline.
d) All of the above.
- b) Neurological manifestations are absent
d) Patient is calm.
- b) Brachiocephalic fistula.
d) None of the above.
- b) Venous clamps
d) Water pump.
- b) Bridge to decision making.
d) All of the above.
- b) Smoke Inhalation.
d) Tuberculosis.
- b) ECMO.
d) PTCA
- b) Platelet transfusion.
d) None of the above
- b) 1971
d) 1976

(52) Preferred in respiratory failure is

- a) VV-ECMO.
- b) VA_ECMO
- c) CPB.
- d) RRT

(53) Concentric Hypertrophy in ECHO is suggestive of:-

- a) Valvular heart disease
- b) Ischaemic heart disease
- c) Long standing hypertension
- d) Heart block

(54) True about echogenic cardiac foci in a fetal anomaly scan is

- a) Suggestive of growth anomalies in fetus
- b) Suggestive of Down's Syndrome in fetus
- c) Representative of calcification in papillary muscle
- d) None of the above

(55) Renogram assess

- a) Functioning of kidney
- b) Morphology of kidney
- c) Both a & b
- d) None of the above

(56) Mineral responsible for stabilisation of cardiac rhythm

- a) Sodium
- b) Magnesium
- c) Phosphorus
- d) Calcium

(57) Einthoven's triangle is

- a) An isosceles triangle
- b) An equilateral triangle
- c) A scalene triangle
- d) None of the above

(58) Combination of leads representing inferior wall of heart are

- a) I,III,V1
- b) II,III, avF
- c) V1 - V6
- d) None of the above

(59) Beta blockers induce

- a) Bradycardia
- b) Tachycardia
- c) Ventricular Tachycardia
- d) None of the above

(60) Chronic Kidney disease may present with

- a) Pitting Oedema
- b) Dyspnea
- c) Uremic symptoms
- d) All of the above