SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY, TRIVANDRUM

ENTRANCE EXAMINATION: NOVEMBER 2015

PROGRAMME: DIPLOMA IN CARDIOVASCULAR AND THORACIC NURSING/NEURO NURSING

Duration: 90 minutes				Total marks: 100				
	(Select the most approp	oriate an	swer; Each	questio	n carries on	e mar	·k)	
1.	Each of the following d arrhythmia EXCEPT or					cardi	ac	
2.	A. Phenytoin B. Neostigmine C. Quinidine D. Propranolol While giving Cardiopuli rate of external chest c							
	A. 60/min	B.	72/min	C.	80/min	D.	100/min	
3.	What is the name of the hallucinations, and inappeared A. Parkinson's of C. Epilepsy	opropria	te emotiona B. Se		nses to situa enia		?	
4.	An intravenous set can A. 12 hrs B. 24 hrs C. 48 hrs D. 72 hrs	be safe	ely used for	a patier	it for a maxir	num	duration of	
5.	Which one of the followimmediately? A. Ventricular A B. Atrial fibrillati	systole	hythmias no	eeds to I	be defibrillat	ed		

C. Pulseless Electrical Activity

D. Pulseless Ventricular Tachycardia

6.	Intravenous fluids once opened must either be used or discarded every
	A. onrs
	B. 12 hrs
	C. 24 hrs
	D. 48 hrs
7.	The part of the neuron that receive messages from other cells is called:
	A. Axon
	B. Cell body
	C. Axonites
_	D. dendrites
8.	Ventricular fibrillation is a chaotic rhythm characterized by a quivering of the
	ventricles that result in
	A. Fainting
	B. Myocardial Infarction
	C. Rapid respiration
a	D. Total loss of cardiac output
J .	The dosage of oral anticoagulant warfarin is regularized by measuring A. Activated partial thromboplastin time
	B. International normalized ratio
	C. Bleeding time
	D. Clotting time
10.	Which one of the following is WRONG regarding Furosemide (Lasix)?
	A. The onset of action after oral administration is within one hour
	B. Furosemide is a potent diuretic
	C. The action lasts about 6 hours after oral administration
	D. Injection Furosemide is available as 20 mg/ml
11.	An inflammation of the brain is called
	A. meningitis
	B. uveitis
	C. encephalitis
	D. neuritis
12.0	Obtaining a written informed consent, before a surgery is the responsibility of
t	he
	A. patient
	B. duty nurse
	C. supervising nurse
	D. doctor

- 13. The Cerebro Spinal Fluid flows in the space between the Arachnoid and the
 - A. Piamater
 - B. Duramater
 - C. Ligamentum Flavum
 - D. Periosteum
- 14. Which one is the best defense in legal issues associated with nursing?
 - A. physician's report on incident
 - B. nursing supervisor's report on incident
 - C. duty nurse's accurate documentation
 - D. patient's self-report
- 15. What instruction is most appropriate in patient with trigeminal neuralgia to prevent triggering the pain?
 - A. Drink iced foods
 - B. Avoid oral hygiene
 - C. Apply warm compresses
 - D. Chew on the unaffected side
- 16. Which one of the following is WRONG regarding Diazepam (Valium)?
 - A. Diazepam is available as 5mg/ml in 2ml ampoule, and 10 ml vials
 - B. should be injected slowly, taking at least one minute for each 10 mg
 - C. is available for oral, parenteral and rectal administration
 - D. Tab. Diazepam may be taken with or without food.
- 17. Interventions to decrease increased intracranial pressure include all of the following *except*
 - A. Inj.Mannitol
 - B. Hypoventilation
 - C. Inj. Dexamethasone
 - D. Neutral neck position
- 18. Which of the following is an assessment priority in a patient with a suspected cervical spinal cord injury?
 - A. Abdominal assessment
 - B. Cardiac assessment
 - C. Neurological assessment
 - D. Respiratory assessment
- 19. The most common cause of dementia in the elderly population is
 - A. Head trauma
 - B. Vascular disease
 - C. Alzheimer's disease
 - D. Parkinson's disease

20. The electrolyte that plays an important role in the coagulation cascade is					
A. Calcium					
B. Sodium					
C. Potassium					
D. Magnesium					
21. Romberg's test assesses which of the following?					
A. speech					
B. gait					
C. coordination					
D. Balance					
22 Dinging in the equal is attracted to					
22. 'Ringing in the ears' is otherwise termed as					
A. Tinnitus					
B. Trigeminal neuralgia					
C. Meniere's disease.					
D. Tenesmus					
23. Which of the following heart valve disease is frequently associated with the					
arrhythmia, atrial fibrillation?					
A. Mitral					
B. Tricuspid					
C. Aortic					
D. Pulmonic					
24. Primary responsibility of the nurse during generalized tonic clonic seizure is					
A. determining whether an aura was experienced					
B. inserting a plastic airway between the teeth					
C. clearing the immediate environment for safety					
D. administering the prescribed antiepileptic drug					
25. Which one of the following assessment is for assessing a patient's cranial					
nerve function?					
A. Assessing Hand grip					
B. Testing Gag reflex					
C. Testing orientation to time, place and person					
D. Checking for arm drift					
26. A patient who has been experiencing angina has a new prescription for					
Nitroglycerin. Which of the following should the nurse include in teaching					

27. When placing an indwelling urinary catheter in an adult female patient, the

B. 4-5 cm

nurse gently inserts the catheter into the urethral meatus for approximately ---

C. 5-7 cm

about the side effects of Nitroglycerin?

B. Shortness of breath

---- cm while watching for urine flow

A. Head ache

C. BradycardiaD. Hypertension

A. 2-3 cm

D. 8-10 cm

- 28. The 'p' wave in the ECG represents
 - A. Depolarization of Atria.
 - B. Repolarisation of Atria.
 - C. Contraction of Atria.
 - D. Relaxation of Atria.
- 29. Fever is often associated with increased heart rate and cardiac output. A patient with an increased body temperature without an increased heart rate may be a result of
 - A. drug
 - B. wound infection
 - C. urinary tract infection
 - D. deep vein thrombosis
- 30. As blood leaves the left atrium and is pumped to the left ventricle, it passes through the
 - A. Mitral valve
 - B. Aortic valve
 - C. Tricuspid valve
 - D. Pulmonic valve
- 31. Where is the apical pulse normally located?
 - A. Left sternal border at the fifth intercostal space.
 - B. Left midclavicular line at the fourth or fifth intercostal space.
 - C. Left anterior axillary line at the fifth intercostal space.
 - D. Right sternal border at the second intercostal space.
- 32. Number of pairs of spinal nerves in man is:
 - A. 33
 - B. 32
 - C. 31
 - D. 12
- 33. Which one of the following increases lower limb blood flow significantly?
 - A. Active foot and ankle movement
 - B. Passive movement
 - C. Aggressive Drug therapy
 - D. Electrical stimulation
- 34. A nurse is providing discharge instructions about digoxin. Which response should a nurse include as a reason for the client to withhold the digoxin?
 - A. Chest pain
 - B. Blurred vision
 - C. Persistent hiccups
 - D. Increased urinary output
- 35. Which of the following is NOT a warning sign of stroke?
 - A. Sudden unilateral vision loss
 - B. Sudden severe headache
 - C. Unilateral neglect syndrome
 - D. Blurred vision

- 36. The nurse expects a patient with Parkinson's disease to exhibit
 - A. Tonic-clonic seizure
 - B. Decrease in intelligence
 - C. Mask like face
 - D. Changes in pain tolerance
- 37. What should be the drip rate per minute of an IV fluid to finish 500 ml in 5 hours (1 ml = 15drops)
 - A. 12.5
 - B. 25
 - C. 50
 - D. 100
- 38. Accumulation of blood between the arachnoid and duramater is known as
 - A. Subdural hematoma
 - B. Epidural hematoma
 - C. Subarachnoid hemorrhage
 - D. Intra cranial hemorrhage
- 39. For a child with serious head injury, the nurse anticipates inserting a Ryle's tube initially to
 - A. Administer medication.
 - B. Decompress the stomach.
 - C. Obtain gastric specimen for analysis.
 - D. Provide adequate nutrition.
- 40. The storage temperature of suppositories is less than ----
 - A. 80° F
 - B. 85° F
 - C. 90° F
 - D. 100° F
- 41. Which laboratory value of serum is most useful in assessing liver function?
 - A. Potassium
 - B. Sodium
 - C. Creatinine
 - D. Protein
- 42. A patient after craniotomy develops fever on post-operative day two. What is your inference about this rise in temperature?
 - A. Early sign of wound infection
 - B. Respiratory complication
 - C. Increase in metabolism secondary to tissue trauma
 - D. Side-effect of drug
- 43. During Gentamycin therapy we should monitor a patient's serum
 - A. Potassium level
 - B. Creatinine level
 - C. Glucose level
 - D. Calcium level

- 44. The nurse is administering sublingual nitroglycerin to a patient. Immediately afterwards the patient may experience
 - A. Throbbing headache or dizziness
 - B. Drowsiness or blurred vision
 - C. Tinnitus or diplopia
 - D. Nervousness or paresthesia
- 45. Inj. Phenytoin (Dilantin) is diluted using
 - A. Normal saline
 - B. 5% dextrose
 - C. Ringer Lactate
 - D. 5% dextrose saline
- 46. Statistics that describes the average for a data set is
 - A. percentage
 - B. mode
 - C. mean
 - D. median
- 47. Ideally blood for Lipid profile
 - A. can be taken at any time.
 - B. should be taken 12 hours after a standard meal.
 - C. should be taken 2 hours after a standard meal.
 - D. can be taken after a standard meal.
- 48. The nurse is preparing to administer sustained release tablet to a patient. Which statement about sustained release tablet is true?
 - A. They should never be split or crushed or chewed.
 - B. They should never be split or crushed, but they may be chewed.
 - C. They should never be chewed, but they may be split or crushed.
 - D. They may be split, crushed, or chewed, depending on the client's condition.
- 49. Which one of the following is considered as 'good cholesterol'?
 - A. Very Low Density Cholesterol.
 - B. Low Density Cholesterol.
 - C. High Density Cholesterol.
 - D. Very High Density Cholesterol.
- 50. Which of the following is not an effect of Aspirin?

- A. Stimulates platelet aggregation
- B. Prophylaxis in patients with coronary artery disease
- C. Anti-inflammatory
- D. Anti pyretic
- 51. The lobe of cerebral cortex that registers general sensations such as heat, cold, pain and touch is the
 - A. Frontal
 - B. Parietal
 - C. Occipital
 - D. Temporal
- 52. A patient who is regaining consciousness after a craniotomy become restless and attempts to pull out her intravenous line. Which nursing intervention protects her without increasing her intracranial pressure?
 - A. Place her in a jacket restraint
 - B. Tuck her arms and hands under the draw sheet
 - C. Wrap her hands in soft mitten restraints
 - D. Apply a wrist restraint to each arm
- 53. The normal fasting blood sugar in an adult is ---- mg/100ml
 - A. 60 100
 - B. 70 110
 - C. 80 120
 - D. < 140
- 54. Which activity would the nurse encourage the patient to avoid when there is a risk for increased intracranial pressure?
 - A. Deep breathing
 - B. turning
 - C. coughing
 - D. passive range of motion exercise
- 55. Which one of the following statements about cerebrospinal fluid (CSF) is wrong?
 - A. Normal volume in adult is 120-150 ml
 - B. Normally CSF may contain up to five polymorphonuclear leucocytes
 - C. CSF pressure as measured by lumbar puncture is more when sitting up
 - D. Cerebrospinal mixed with blood forms a "halo sign" when dripped on filter paper
- 56. Which of the following is a characteristic of cerebellar dysfunction?
 - A. Ataxia
 - B. Non Intention tremor
 - C. Amnesia
 - D. Apraxia

- 57. Which of the following points should the nurse include about sublingual nitroglycerin when instructing the patient with angina?
 - A. The drug will cause increased urine output.
 - B. Store the tablets in a tight light resistant container.
 - C. Use the tablets only when the pain is very severe.
 - D. The shelf life of NTG is long; it keeps for up to 2 years.
- 58. A patient has suffered a C7 spinal cord injury. Which of the following would be the most important nursing intervention during the acute stage of the injury?
 - A. Turning and repositioning every 2 hours.
 - B. Maintaining proper body alignment.
 - C. Maintaining a patent airway.
 - D. Monitoring vital signs.
- 59. Which one of the following laboratory value is abnormal?
 - A. Serum creatinine 1.5 mg/dL
 - B. Fasting blood sugar 97 mg/dL
 - C. HDL Cholesterol 52 mg/dL
 - D. Total count 10,000/cmm
- 60. The initial blood pressure of a patient with a head injury is 124/80 mm of Hg. As his condition worsens, pulse pressure increases. Which of the following blood pressure readings indicates a pulse pressure greater than the initial pulse pressure?
 - A. 102/60 mm of Hg
 - B. 110/90 mm of Hg
 - C. 140/100 mm of Hg
 - D. 160/100 mm of Hg
- 61. Which of the following is a contraindication to receiving tissue plasminogen activator (tPA) in acute ischemic stroke?
 - A. Recent history of surgery
 - B. Blood sugar of 75 mg%
 - C. Glasgow coma score of 10
 - D. BP of 160/100 mm of Hq
- 62. The nurse would expect a patient with Jaundice to also complain of
 - A. Pruritus
 - B. Diarrhea
 - C. Blurred vision
 - D. Bleeding tendencies
- 63. Which one of the following is NOT a characteristic feature of arterial ulcer?
 - A. Full thickness wound
 - B. Well defined edges
 - C. Very painful
 - D. Reddish brown pigmentation
- 64. Which one of the following statements regarding insulin is WRONG?

- A. There are three main groups of insulins: Fast-acting, Intermediate-acting and Long-acting
- B. It can be injected subcutaneously or given intravenously
- C. Onset of action of NPH human insulin is faster than regular human insulin
- D. It can be extracted from beef and pork pancreases, but human insulin can be produced synthetically
- 65. Which one of the following statements regarding the mechanics of breathing is *wrong*?
 - A. Normally inspiration is a passive process
 - B. The diaphragm is the chief muscle of inspiration
 - C. The diaphragm contracts and descends toward abdominal cavity during inspiration
 - D. When the intrathoracic volume increases, the intrathoracic pressure falls below atmospheric pressure
- 66. The most common cause of airway obstruction in the unresponsive victim is occlusion by
 - A. vomitus
 - B. oral secretions
 - C. tongue
 - D. foreign body
- 67. The respiratory center can be severely affected by all of the following except
 - A. stroke
 - B. hypertension
 - C. head injury
 - D. narcotics
- 68. The neuromuscular component of the respiratory system includes all of the following *except*
 - A. The airways
 - B. The nerves to and from the muscles of respiration
 - C. The muscles of respiration
 - D. The respiratory center in the brain
- 69 Which one of the following statements is *wrong* regarding child cardiopulmonary resuscitation according to 2010 guidelines?
 - A. Compress the chest at a rate of at least 100/min
 - B. The compression depth is 1.5 to 2 cm.
 - C. Minimize interruptions in chest compressions
 - D. Compression ventilation ratio is 30:2 for lone rescuer

- 7). Which of the following actions is the first priority care for a client exhibiting signs and symptoms of coronary artery disease?
 - A. Decrease anxiety
 - B. Enhance myocardial oxygenation
 - C. Administer sublingual nitroglycerin
 - D. Educate the client about his symptoms
- 71. Which one of the following statements regarding cardiac physiology is *wrong*?
 - A. The left atrium receives oxygenated blood from the lungs.
 - B. The mitral valve has three leaflets.
 - C. The aortic and pulmonary valves have three valve cusps each.
 - D. The right ventricle pumps blood into the pulmonary artery for delivery to the lungs.
- 72. Which of the following symptoms is most commonly associated with left-sided heart failure?
 - A. Crackles in lung
 - B. Arrhythmias
 - C. Hepatic engorgement
 - D. Hypotension
- 73. All of the following medicines should be taken after food except
 - A. Thyroxine
 - B. Augmentin
 - C. Spironolactone
 - D. Diclofenac Sodium
- 74. The standard dose of Epinephrine (Adrenaline) 1:1000 to treat asthma is 0.01 ml per Kilogram of body weight. Which amount of Adrenaline should the nurse administer to a child weighing 20 Kg having asthmatic attack?
 - A. 0.10 ml
 - B. 0.20 ml
 - C. 1 ml
 - D. 2 ml
- 75. Spironolactone (Aldactone) is a/an --- diuretic.
 - A. Osmotic
 - B. Potassium sparing
 - C. Loop
 - D. Thiazide

- 76. What should be the micro drip rate of an IV fluid to finish 500 ml in 10 hours?
 - A. 10 micro drops/min
 - B. 25 micro drops /min
 - C. 50 micro drops/min
 - D. 100 micro drops/min
- 77. You are caring for a patient with thrombocytopenia. What is the best way to protect this patient?
 - A. Limit visit by family members.
 - B. Encourage the client to use a wheelchair.
 - C. Use the smallest needle possible for injections.
 - D. Maintain accurate fluid intake and output records.
- 78. Typical sign of thrombophlebitis of lower legs is
 - A. Intermittent claudication
 - B. Pitting edema of the lower extremities
 - C. Severe pain on extension of the extremity
 - D. Localized warmth and tenderness
- 79. What is the most appropriate size of Ryle's tube for feeding an adult patient?
 - A. 8 10 Fr
 - B. 10 12 Fr
 - C. 12 14 Fr
 - D. 18 20 Fr
- 80. Which electrolyte imbalance is most common in elderly patients?
 - A. Hyponatremia
 - B. Hypernatremia
 - C. Hypokalemia
 - D. Hyperkalemia
- 81. The myocardial protein that is most sensitive to myocardial injury and is not influenced by other muscle damage is
 - A. LDH
 - B. Troponin I
 - C. CK-MB
 - D. myoglobin
- 82. What supplemental medication is most frequently ordered in conjunction with furosemide (Lasix)?

- A. Chloride
- B. Digoxin
- C. Potassium
- D. Sodium
- 83. Premature ventricular contractions in post operative cardiac surgery patients are most likely to occur due to alterations in levels of
 - A. Sodium
 - B. Calcium
 - C. Hemoglobin
 - D. Potassium
- 84. Transfusion of one unit of packed red blood cells (240 ml) if given at a rate of 15 drops/min will get over by
 - A. 4 hours
 - B. 6 hours
 - C. 8 hours
 - D. 16 hours
- 85. Which one of the following is the antidote of heparin?
 - A. Warfarin Sodium
 - B. Protamine sulphate
 - C. Acetylsalicylic acid
 - D. Atropine sulphate
- 86. Which type of prosthetic valve requires long term anticoagulation therapy?
 - A. Biologic
 - B. Bovine
 - C. Mechanical
 - D. Porcine
- 87. Toxicity from which of the following medications may cause a client to see a green halo around lights?
 - A. Digoxin
 - B. Furosemide
 - C. Metoprolol
 - D. Enalapril
- 88. Which of the following situations alert you to suspect cardiac arrest?
 - A. Patient is cold to touch and restless
 - B. Patient suddenly becomes unresponsive
 - C. Carotid pulse is feeble
 - D. Radial pulse is absent

- 89. What position should the nurse place the head of the bed in to obtain the most accurate reading of jugular vein distention?
 - A. High-Fowler's
 - B. Raised 10 degrees
 - C. Raised 30 degrees
 - D. Supine position
- 90. The nurse can best ascertain the severity of pain by asking the patient to
 - A. describe the pain
 - B. discuss the timing and duration of pain
 - C. rate the pain on a scale of 0-10.
 - D. report relief of pain after treatment.
- 91. When a patient is receiving an aminoglycoside antibiotic, we should monitor which of the serum values?
 - A. Sodium
 - B. Poassium
 - C. Calcium
 - D. Creatinine
- 92. The nurse is reviewing a patient's arterial blood gas (ABG) report. Which ABG value reflects the acid concentration in blood?
 - A. pH
 - B. PaO₂
 - C. PaCO₂
 - D. HCO₃=
- 93. The best measure of the heart's effectiveness as a pump is the
 - A. Heart rate
 - B. Systolic blood pressure
 - C. Diastolic blood pressure
 - D. Cardiac output
- 94. The most appropriate way to collect a urine specimen for culture and sensitivity from a patient with a Foley's catheter is
 - A. clamp the catheter, detach the urobag tubing, take urine sample under sterile precautions
 - B. take urine sample under sterile precautions, from the urobag
 - C. clamp the catheter, aspirate the collected urine from the catheter hub under sterile precautions

clamp the catheter and remove the catheter, collect urine sample into a sterile container, by releasing the clamp

95. Which one of the following is the best measure to determine long term control

of blood sugar in a patient with diabetes mellitus?

A. Glucose tolerance test (GTT)

B. Fasting blood sugar (FBS)

	Post prandial Glycosylated I		• ,	,			
	of the following astric tube?	is the	gold sta	ndard test	for co	nfirming th	ne position of
В. С.	Capnography Auscultation P ^H testing Radiography		·				
assessir A. B. C.	ne of the following an ataxic par Kernig's test Romberg's test Mini mental st Hoffmann's te	tient's st atus e	ability to	walk?	e nurs	e perform	when
the orde an hour?	rate (macrodro r is for 1gm of v ? The tubing de 15/min B 30/	vanco livers	mycin to l 15 drops	be given ir /ml.		ml of 5% d	
The dos concentr administ	preparing a do age prescribed ration of the dru er/dose? 2.5 ml	is 50 ug is 2	mg/Kg/da 50 mg/5r	ay in divide	ed dos any m	e every 8 I will you	
		is 0.5	mg in 2m	il. How ma	any mil	lliliters sho	
A.	0.5 ml	B 0.	4 ml (0.3 ml	D (0.2 ml	

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Answer Key for : OMR

- 1. B
- 2. D
- 3. B
- 4. D
- 5. D
- 6. C
- 7. D
- 8. D
- 9. B
- 10.D
- 11.C
- 12.D
- 13.A
- 14.C
- 15. D
- 16.B
- 17.B
- 18.D
- 19.C
- 20.A
- 21.D
- 22.A
- 23.A
- 24.C
- 25.B
- 26.A
- 27.C
- 28. A
- 29. A
- 30.A
- 31.B
- 32.C
- 33.A
- 34.B
- 35.C
- 36.C
- 37.B
- 38.A
- 39.B
- 40.A
- 41.D

42.B

43.B

44.A

45.A

46.C

47.B

48.A

49.C

50.A

51.B

52.C

53.B

54.C

55.B

56.A

57.B

58.C

59.A

60.D

61.A

62.A

63.D

64.C

65.A

66.C

67.B

68.A

69.B

70.B 71.B

72.A

73.A

74.B

75.B

76.C

77.C

78. D

79.C

80.A

81.B

82.C

83.D

84.A

85.B

86.C

87.A

88.B 89.C 90.C 91.D 92.A 93.D 94. C 95. D 96. D 97. B 98. C 99. D 100. В