



श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकीसंस्थान, तिरुवनंतपुरम् -11  
SREE CHITRA TIRUNAL INSTITUTE FOR MEDICALSCIENCES & TECHNOLOGY,  
THIRUVANANTHAPURAM—695 011

ENTRANCE EXAMINATION : ACADEMIC SESSION JANUARY 2020

PROGRAM: SPECIALITY NURSING COURSES

Time: 90 minutes

Max.Marks: 100

(Select the most appropriate answer)  
(There are no negative marks for wrong answers)

1. Which of the following is the modifiable risk factor for stroke
  - a. Heredity
  - b. Age
  - c. Gender
  - d. Obesity
2. Which one of the following ECG characteristics represent ventricular depolarization?
  - a. PR interval
  - b. P wave
  - c. ST interval
  - d. QRS wave
3. What is the priority nursing intervention of a patient during the immediate postoperative period?
  - a. Observing for haemorrhage
  - b. Maintaining a patent airway
  - c. Recording intake and output
  - d. Checking vital signs every 15 minutes
4. Which one of the following arrhythmias needs to be defibrillated immediately?
  - a. Ventricular Asystole
  - b. Atrial fibrillation
  - c. Pulseless Electrical Activity
  - d. Ventricular Fibrillation
5. Intravenous fluids once opened must either be used or discarded every
  - a. 8 hrs
  - b. 12 hrs
  - c. 24 hrs
  - d. 48 hrs

6. The part of the neuron that receive messages from other cells is called:
  - a. Axon
  - b. Cell body
  - c. Axonites
  - d. Dendrites
  
7. Which among the following food item is restricted in renal failure?
  - a. Carbohydrate
  - b. Proteins
  - c. Fats
  - d. Vitamins
  
8. Expand PPE
  - a. Patient Protective Environment
  - b. Personal Protective Environment
  - c. Personal Protective Equipment
  - d. Primary Protective Equipment
  
9. One ampoule of Inj.Lasix (2 ml) contains
  - a.10mg
  - b. 20 mg
  - c. 40 mg
  - d. 60 mg
  
10. An inflammation of the covering of the brain is called
  - a. meningitis
  - b. encephalitis
  - c. meningoencephalitis
  - d. neuritis
  
- 11.The World Health Day Theme -2019 is
  - a. Food Safety
  - b. Depression: Let's talk
  - c. Universal Health Coverage: Everyone, everywhere
  - d. Halt the rise: Beat Diabetes
  
12. The Cerebro Spinal Fluid flows in the space between the Arachnoid and the
  - a. Piamater
  - b. Duramater
  - c. Ligamentum Flavum
  - d. Periosteum
  
- 13.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

14. Which is the largest cranial nerve?

- a. Facial nerve
- b. Trigeminal nerve
- c. Optic nerve
- d. Vagus

15. The client is receiving Packed red blood cells. Several minutes after the infusion is started, the client complains of itching and develops hives on his chest and abdomen. Which of the following actions should the nurse takes first?

- a. Slow the rate of transfusion
- b. Call the physician for an order for an antihistamine
- c. Mix IV fluid with the blood to dilute it.
- d. Stop the transfusion.

16. Glasgow coma scale(GCS) is a measure of

- a. Intracranial pressure(ICP)
- b. Memory
- c. Level of consciousness
- d. Fluid volume

17. 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

18. The region of brain which is responsible for higher mental functions and decision making is located in

- a. Parietal lobe
- b. Temporal lobe
- c. Occipital lobe
- d. Frontal lobe

19. The most common intracellular cation

- a. Calcium
- b. Sodium
- c. Potassium
- d. Magnesium

20. Length of spinal cord is

- a. 25 cm

- b. 35 cm
  - c. 45 cm
  - d. 55 cm
21. 'Ringing in the ears' is otherwise termed as
- a. Tinnitus
  - b. Trigeminal neuralgia
  - c. Meniere's disease.
  - d. Tenesmus
22. The anterior fontanelle in the fetal skull usually closes at
- a. Birth
  - b. Eighteen months after birth
  - c. At 6 month of birth
  - d. After 2 years
23. 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
24. Normal pH of human blood
- a. 7.0-7.25
  - b. 7.25-7.35
  - c. 7.35-7.45
  - d. 7.45-7.5
25. A patient who has been experiencing angina has a new prescription for Nitroglycerin. Which of the following should the nurse include in teaching about the side effects of Nitroglycerin?
- a. Head ache
  - b. Shortness of breath
  - c. Bradycardia
  - d. Hypertension
26. The largest gland in human body
- a. Liver
  - b. Pancreas
  - c. Spleen
  - d. Prostate
27. The 'P' wave in the ECG represents
- a. Depolarization of Atria.
  - b. Repolarisation of Atria.
  - c. Depolarization of ventricles

- d. Relaxation of Atria.
28. Dyspnoea means
- a. Absence of breathing
  - b. Difficulty in breathing
  - c. Increased breathing
  - d. Decreased breathing
29. 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
30. Where the apical pulse is normally located?
- a. Right 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.
31. Destruction of all microorganisms including their spores is called
- a. Terminal disinfection
  - b. Concurrent disinfection
  - c. Sterilization
  - d. Immunization
32. The pacemaker of the heart
- a. SA node
  - b. AV node
  - c. Bundle of His
  - d. Purkinje Fibres
33. A harsh vibrating shrill sound produced during respiration that occurs due to obstructed airflow through a narrowed airway
- a. Rales
  - b. Wheeze
  - c. Stridor
  - d. Asthma
34. Total cessation of breathing is termed as
- a. Eupnoea
  - b. Hyperpnoea
  - c. Apnoea
  - d. Bradypnoea

35. The interval between the entry of infectious agent and appearance of first signs and symptoms of a disease
- Quarantine
  - Incubation period
  - Virulence
  - Surveillance
36. What should be the drip rate per minute of an IV fluid to finish 500 ml in 5 hours (1 ml = 15drops)
- 12.5
  - 25
  - 50
  - 100
37. The process of enabling people to increase control over and to improve health is known as
- Health Promotion
  - Specific protection
  - Early diagnosis and treatment
  - Rehabilitation
38. For a child with serious head injury, the nurse anticipates inserting a Ryle's tube initially to
- Administer medication.
  - Decompress the stomach.
  - Obtain gastric specimen for analysis.
  - Provide adequate nutrition.
39. The components of Glasgow Coma Scale include all **except**
- Best sensory response
  - Best motor response
  - Best eye opening
  - Best verbal response
40. Which laboratory value of serum is most useful in assessing renal function?
- Potassium
  - Sodium
  - Creatinine
  - Protein
41. Mannitol is a/an ..... diuretic
- Osmotic
  - Potassium sparing
  - Loop
  - Thiazide

42. To calculate body mass index (BMI) divide
- Height in meters squared by weight in kilogram
  - Weight in pounds by height in meters squared
  - Height in inches by weight in kilogram
  - Weight in kilogram by height in meters squared
43. A pharmacological agent used for sedation .
- Propofol
  - Pantoprazole
  - Labetolol
  - Tramadol
44. Which one of the following intravenous fluids (IV) exerts the same oncotic pressure as that of plasma?
- Ringer lactate
  - 0.45% Sodium chloride
  - 10% Dextrose
  - 3% normal Saline
45. The maximum volume of air that can be released from lungs by forceful expiration after deepest inspiration is called
- Vital Capacity
  - Total lung capacity
  - Tidal Volume
  - Expiratory Reserve Volume
46. Ideally blood for Lipid profile
- can be taken at any time.
  - should be taken 12 hours after a standard meal.
  - should be taken 2 hours after a standard meal.
  - can be taken after a standard meal.
47. When caring for a patient with Methicillin Resistant Staphylococcus Aureus(MRSA), the nurse should wear
- Surgical goggles.
  - Rebreather mask.
  - Gown and gloves.
  - Sterile Isolation Unit
48. Which one of the following is considered as 'good cholesterol'?
- Very Low Density Cholesterol.
  - Low Density Cholesterol.
  - High Density Cholesterol.
  - Very High Density Cholesterol.
49. 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
50. Each of the following is a subjective data of neurologic assessment EXCEPT one. Which one is the exception?
- a. Dizziness
  - b. Headache
  - c. Numbness
  - d. Delirium
51. International Nurses Day Theme 2019 is
- a. Nurses: A voice to lead-Health is a Human Right
  - b. Nurses: A voice to lead –Achieving the Sustainable Development Goals
  - c. Nurses : A voice to lead-Health For All
  - d. Nurses: Leading Care Innovation
52. The normal fasting blood sugar in an adult is ----- mg/100ml
- a. 60 - 100
  - b. 70 - 110
  - c. 80 - 120
  - d. < 140
53. Which ethical principle incorporates the concept that it is the duty of the nurse to maximize the individual's right to make his or her own decisions?
- a. Justice
  - b. Veracity
  - c. Fidelity
  - d. Autonomy
54. Problem solving starts with
- a. Clarification of situation
  - b. Establishment of alternatives
  - c. Identification of difficulty
  - d. Establishment of objectives
55. Father of antiseptic surgery?
- a. Charles Chamberland
  - b. Sir Joseph Lister
  - c. Donald Ross
  - d. William Crookes
56. Terminal end of spinal cord is
- a. Conus medullaris
  - b. Filum Terminale



- c. Cauda Equina
- d. Neutral Spine

57. Ecchymosis around eye is called
- a. Battle's sign
  - b. Raccoon's eye
  - c. Cullen's sign
  - d. Periocular oedema
58. Which one of the following laboratory value is abnormal?
- a. Serum creatinine - 2 mg/dL
  - b. Fasting blood sugar – 97 mg/dL
  - c. HDL Cholesterol - 52 mg/dL
  - d. Total count – 8000 /cmm
59. 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
60. Which brain structure is most responsible for our balance, posture and muscle tone?
- a. Medulla Oblongata
  - b. Cerebellum
  - c. Reticular system
  - d. Pons
61. The nurse would expect a patient with Jaundice to also complain of
- a. Pruritus
  - b. Diarrhea
  - c. Blurred vision
  - d. Dysuria
62. Bell's Palsy is due to injury to the
- a. Facial nerve
  - b. Optic nerve
  - c. Trigeminal nerve
  - d. Abducens
63. 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
64. 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
65. The most common cause of airway obstruction in the unresponsive victim is occlusion by
- a. vomitus
  - b. oral secretions
  - c. tongue
  - d. foreign body
66. The time taken for assessing cardio-pulmonary arrest in a suspected victim should be less than----- secs
- a. 15
  - b. 10
  - c. 5
  - d. 12
67. Kidneys regulates blood pressure by the release of
- a. Epinephrine
  - b. Cytokines
  - c. Aldosterone
  - d. Renin
68. The normal value of PO<sub>2</sub> in arterial blood gas analysis is
- a. 80-100 mm of Hg
  - b. 50-70 mm of Hg
  - c. 100-200 mm of Hg
  - d. 35-45 mm of Hg
69. While giving Cardiopulmonary resuscitation to an adult, the recommended ratio of chest compression to ventilation ,as per 2015 American Heart Association guidelines is
- a. 15:2
  - b. 30:2
  - c. 15:4

d.30:1

70. Which one of the following statements regarding cardiac physiology is wrong?
- The left atrium receives oxygenated blood from the lungs.
  - The mitral valve has three leaflets.
  - The aortic and pulmonary valves have three valve cusps each.
  - The right ventricle pumps blood into the pulmonary artery for delivery to the lungs.
71. Which of the following symptoms is most commonly associated with left-sided heart failure?
- Crackles in lung
  - Heart block
  - Hepatic engorgement
  - Hypotension
72. All of the following medicines should be taken after food **except**
- Thyroxine
  - Augmentin
  - Spironolactone
  - Diclofenac Sodium
73. 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?
- 0.10 ml
  - 2 ml
  - 1 ml
  - 0.20 ml
74. The appropriate duration of tracheostomy suctioning at a time is not more than
- 5 to 10 sec
  - 15 to 20 sec
  - 21 to 25 sec
  - 20 to 30 sec
75. A patient with tricuspid valve disorder will have impaired blood flow between the
- Vena cava and right atrium
  - Left atrium and left ventricle
  - Right atrium and Right ventricle
  - Right ventricle and pulmonary artery

76. You are caring for a patient with thrombocytopenia. What is the best way to protect this patient?
- Limit visit by family members.
  - Encourage the client to use a wheelchair.
  - Use the smallest needle possible for injections.
  - Maintain accurate fluid intake and output records.
77. Union Cabinet Minister for Health and Family Welfare
- Mr.J.P.Nadda
  - Dr. Harsha Vardan
  - Mr.Ghulam Nabi Azad
  - Mr.Aswini Kumar Choubey
78. Regarding cardiac arrest in children, the true statement is
- VT/VF is very common
  - The commonest cause of cardiac arrest is hypoxia
  - Atropine is effective in the treatment of bradycardia due to hypoxia
  - Compression ventilation ratio is 30:2 for two rescuers.
79. Which electrolyte imbalance is most common in elderly patients?
- Hyponatremia
  - Hypernatremia
  - Hypokalemia
  - Hyperkalemia
80. Which of the following medicine is useful for reducing raised intracranial pressure?
- IV Mannitol
  - IV Phenytoin
  - IV Diazepam
  - IV Nitroglycerin
81. First aid instructions for a seizure include all of the following **except**
- Stay calm
  - Time the seizure with a watch or clock
  - Restrain the person during the seizure
  - Do not put anything in the person's mouth
82. The ideal duration of an entire hygienic hand washing procedure is
- 20-30 seconds
  - 45 seconds
  - 2 minutes
  - 40-60 seconds
83. Transfusion of one unit of packed red blood cells (240 ml) if given at a rate of 15 drops/min will get over by
- 6 hours

- b. 4 hours
  - c. 8 hours
  - d. 16 hours
84. To eliminate transfusion errors related to patient Misidentification
- a. Use three person verification process
  - b. Use one person verification process
  - c. Use two person verification process
  - d. Automation Identification Technology
85. World Heart Day is celebrated on
- a. November 14th
  - b. June 21st
  - c. October 15th
  - d. September 29th
86. 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
87. The world's biggest health care scheme launched on September 23<sup>rd</sup> 2018, by the Indian Prime Minister, which offers insurance cover of Rs 5 lakh/family
- a. Janashree Bhima Yogana
  - b. Rashtriya Swasthya Bhima Yogana(RSBY)
  - c. Ayushman Bharat National Health Protection Scheme
  - d. Central Government Health Scheme
88. The first drug of choice for a patient admitted with status epilepticus is
- a. Phenytoin
  - b. Carbamazepine
  - c. Lorezepam
  - d. Sodium Valproate
89. The nurse can best ascertain the severity of pain by asking the patient to
- a. Rate the pain on a scale of 0-10
  - b. Discuss the timing and duration of pain
  - c. Describe the pain.
  - d. Report relief of pain after treatment.
90. How do humans become infected with cholera causing bacilli?
- a. Breathing in contaminated air

- b. Having unprotected sexual relations
  - c. Being bitten by an infected mosquito
  - d. Consuming contaminated water or food
91. The patient is prescribed Injection Heparin 2500IU subcutaneous dose. You are given vial of 25000 IU in 5 ml. How much mL will you administer?
- a. 1 ml
  - b. 2 ml
  - c. 0.5 ml
  - d. 0.2 ml
92. The difference between apical pulse and radial pulse is termed as
- a. Pulse pressure
  - b. Asystole
  - c. Arrhythmia
  - d. Pulse Deficit
93. Observation is a method of
- a. Assessment
  - b. Evaluation
  - c. Planning
  - d. Data collection
94. 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)
  - c. Post prandial blood sugar (PPBS)
  - d. Glycosylated hemoglobin (HbA<sub>1C</sub>)
95. The centre for controlling body temperature
- a. Hypothalamus
  - b. Medulla Oblongata
  - c. Cerebellum
  - d. Midbrain
96. Normal value of sodium in blood
- a. 120 to 130 mEq/L
  - b. 100 to 130 mEq/L
  - c. 135 to 145 mEq/L
  - d. 200 to 210 mEq/L
97. At what rate (macrodrop/min) should the nurse start an intravenous infusion if the order is for 1gm of vancomycin to be given in 180 ml of 5% dextrose over an hour? The tubing delivers 15 drops/ml.

- a. 15/min
- b. 30/min
- c. 45/min
- d. 60/min

98. You are preparing a dose of Amoxicillin for a 3-year old child weighing 15 Kg. The dosage prescribed is 50 mg/Kg/day in divided dose every 8 hours. The concentration of the drug is 250 mg/5ml. How many ml will you administer/dose?

- a. 2.5 ml
- b. 3 ml
- c. 4.5 ml
- d. 5 ml

99. In children, "sunset sign" is most commonly associated with following condition

- a. Head Injury
- b. Hydrocephalus
- c. Medulloblastoma
- d. Craniopharygeoma

100. Smaller gauge cannula is used for

- a. Fragile veins
- b. Blood Transfusion
- c. Inflamed veins
- d. Unstable patients

