

# श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकी संस्थान

तिरुवनन्तपुरम - 695 011, केरल, इंडिया

**SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY**

THIRUVANANTHAPURAM - 695 011, INDIA

(An Institute of National importance under Govt. of India)



## WRITTEN TEST FOR THE POST OF STAFF NURSE – A

Date : 28.11.2010

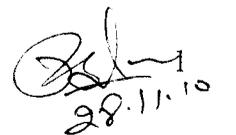
Time : 9.30 A.M

Duration : 90 Minutes

Total Marks : 80

### QUESTION PAPER

1. Percentage of oxygen delivered by use of a non-rebreathing mask with a flow rate of 10 litres /minute is:
  - a. 20 – 35
  - b. 35 – 50
  - c. 50 – 60
  - d. 90 – 95
2. Simple or typical febrile seizures occur in:
  - a. Infants below 3 months of age
  - b. 3 months – 5 years
  - c. 3 years – 8 years
  - d. Preadolescents
3. The dilution of adrenaline used in neonatal resuscitation is:
  - a. 1:10
  - b. 1:100
  - c. 1:1000
  - d. 1:10000
4. Injection sodium bicarbonate should not be mixed with
  - a. Normal saline
  - b. 5% dextrose
  - c. Calcium gluconate
  - d. Ringer lactate

  
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**5. Weight and Length of a normal full term baby, with birth weight of 3 kg at one year of age, are expected to be:**

- a. 7 kg and 70 cm
- b. 9 kg and 75 cm
- c. 12 kg and 80 cm
- d. 12 kg and 85 cm

**6. Using a placebo for pain control in a certain case without the patient's consent is:**

- a. justified and ethical
- b. justified but unethical
- c. deceptive but ethical
- d. deceptive and unethical

**7. Which of the following can be used for applying moist heat?**

- a. Sitz bath
- b. Aqua pad
- c. Hot water bag
- d. Commercial hot pack

**8. Which action is most effective in preventing wound infections?**

- a. Using sterile dressings
- b. Suggesting dietary supplements
- c. Applying antibiotic ointment
- d. Observing careful hand hygiene

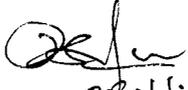
**9. Before administering enteric coated drug through a naso-gastric tube, the nurse should first ensure:**

- a. Crushing of the tablet
- b. Flushing the tube with warm water
- c. Checking for proper placement of the tube
- d. Taking the patient's vital signs

**10. Maslow's hierarchy of basic human needs is useful when planning and implementing nursing care, as it provides a structure for:**

- a. Making accurate nursing diagnosis
- b. Establishing priorities of care
- c. Communicating concerns more concisely
- d. Integrating science into nursing care

- 11. Which nursing organization was the first international organization of women nurses?**
- The International Council of Nurses (ICN)
  - The American Nurses Association (ANA)
  - The National League for Nursing (NLN)
  - The National Student Nurses' Association (NSNA)
- 12. Total Parenteral Nutrition (TPN) is administered through a central vein because of:**
- Rapid rate of infusion
  - High volume of infusion
  - High osmolarity of solution
  - Easy access
- 13. Gas gangrene is caused by:**
- Clostridium tetani
  - Clostridium perfringes
  - Clostridium difficile
  - Anaerobic streptococci
- 14. Most important step in avoiding wrong site surgery is:**
- Having a check list procedure before surgery
  - Avoiding patients with the same name on the list
  - Avoiding patients with same conditions in the list
  - Having a short operation list
- 15. Transmission of HIV to health care workers during surgery can be prevented by:**
- Routine screening of all patients
  - Using "universal precautions"
  - Avoiding surgery on HIV patients
  - Antiretroviral prophylaxis for the health care workers
- 16. Accurate estimation of large burn areas is done by:**
- "Rule of nine"
  - Patient hand approximated to 1% total burn surface area
  - Lund & Browder chart
  - Calculation of Body Mass Index

  
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**17. Most common topical treatment used for burn wound, which is effective against both pseudomonas and MRSA is:**

- a. Silver sulphadiazine
- b. 0.5% Silver nitrate
- c. Mafenide acetate
- d. Soframycin

**18. Best and easy way to monitor resuscitation in a burn patient is:**

- a. Monitoring pulse rate
- b. Monitoring blood pressure
- c. Monitoring urine output
- d. Monitoring haematocrit

**19. Lucid interval is seen in**

- a. Intra cerebral haemorrhage
- b. Extradural haemorrhage
- c. Acute subdural haemorrhage
- d. Chronic subdural haemorrhage

**20. All the following suture materials are absorbable, EXCEPT:**

- a. Polyglycolic acid (Vicryl)
- b. Chromic catgut
- c. Polypropylene (Prolene)
- d. Polydioxanone (PDS)

**21. A patient with Diabetes Insipidus characteristically complains of:**

- a. Fatigue
- b. Hunger
- c. Thirst
- d. Weight loss

**22. The fluid preferred for initial resuscitation of a patient with hemorrhagic shock is:**

- a. Ringer's lactate
- b. Whole blood
- c. 5% dextrose
- d. Fresh frozen plasma

23. Nyctalopia and Bitot Spot are due to deficiency of:

- a. Vitamin A
- b. Vitamin C
- c. Vitamin D
- d. Vitamin E

24. One pint of 10% dextrose yields, how much of calories?

- a. 100
- b. 200
- c. 300
- d. 400

25. The thick collection of nerve fibers that connects the two hemispheres of the brain is called:

- a. Corpus callosum
- b. Hypothalamus
- c. Pons
- d. Brain stem

26. Guedal airway is a:

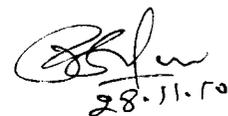
- a. Oropharyngeal airway
- b. Nasopharyngeal airway
- c. Laryngeal airway
- d. Tracheal airway

27. All of the following are complications of immobility, EXCEPT:

- a. Pneumonia
- b. Deep venous thrombosis
- c. Pressure sores
- d. Hepatic failure

28. Which of the following represents lead III of electrocardiography?

- a. Right leg to right arm
- b. Left leg to left arm
- c. Right leg to left arm
- d. Left leg to right arm

  
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**29. In Trendelenburg position:**

- a. The foot end of the bed is elevated
- b. The head end of the bed is elevated
- c. Patient is put in decubitus position
- d. Patient is put in prone position

**30. Gastric lavage should not be done in:**

- a. Antipsychotic drug poisoning
- b. Corrosive poisoning
- c. Organophosphorus poisoning
- d. Organochlorine poisoning

**31. Which of the following clinical nursing practices is recommended as most important to healthcare and nursing professionals today?**

- a. Primary care nursing
- b. Community-based nursing
- c. Authoritative nursing
- d. Evidence-based practice

**32. The oral clinical thermometer records a temperature of 102°F in a patient scheduled for surgery, but the patient is afebrile to touch. The first thing to be done by the recording nurse is to:**

- a. inform the in-charge nurse
- b. inform the doctor
- c. validate the finding
- d. document the finding

**33. Which route one uses to identify hypothermia in a new born?**

- a. Oral
- b. Aural
- c. Rectal
- d. Surface probe

**34. A known admitted cardiac patient develops dyspnea. What should the attending nurse do first before other activities?**

- a. Remove pillows from under the head
- b. Keep the patient in left-side up position
- c. Elevate the foot end of the bed
- d. Keep the patient in propped-up position

35. In the critical-care pain observation tool, which facial expression has been given the score of 2?
- Relaxed, neutral
  - Tense
  - Grimacing
  - Shouting
36. Which method of documentation uses the categories "data, action and response" (DAR) to facilitate nurse's daily charting?
- Narrative notes
  - Focus charting
  - Case management model
  - Minimum data set
37. When implementing the plan of care for a patient receiving intravenous therapy, which nursing practice would be most appropriate?
- Changing the IV catheter entry site daily
  - Changing the tubings every 8 hours
  - Increasing the rate to catch up, if the correct amount has not been infused at the end of the shift
  - monitoring the flow rate once every hour
38. While administering a blood transfusion, the ideal nursing care recommended to identify a blood transfusion reaction is:
- Inspecting 15 minutes after the infusion is started
  - Inspecting at the end of transfusion
  - Inspecting once in every 30 minutes
  - Inspecting whenever the patient complains
39. When caring for a patient with chronic lung disease on oxygen therapy by nasal canula, the most important check, that is expected of the nurse is :
- The oxygen must be humidified
  - The rate will be 2 L/min or less
  - Periodic sampling of arterial blood for ABG
  - The rate will be 6 L/min or more

  
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**40. Which nursing action is inappropriate when performing oro-pharyngeal suctioning on a patient?**

- a. Using sterile technique
- b. Applying suction as the catheter is being introduced
- c. Flushing the catheter with saline between catheter insertions
- d. Limiting suction to 15 second intervals at one time.

**41. Dilated pupil could result from:**

- a. Structural lesions in the pons
- b. Morphine poisoning
- c. Pilocarpine eye drops instillation
- d. Brain death

**42. Rest is needed in patients with coronary artery disease to:**

- a. Correct arrhythmias
- b. Reduce oxygen requirements of the body
- c. Reduce the size of the heart
- d. Reduce the tendency for insomnia

**43. Myasthenia gravis is a disease of:**

- a. Neuromuscular junction
- b. Anterior horn cells
- c. Skeletal muscle
- d. Spinal cord

**44. Parkinson's disease is characterized by the following, EXCEPT:**

- a. Uniform spasticity
- b. Postural instability
- c. Tremors
- d. Bradykinesia

**45. One of the following drugs cannot be used in hypertension management:**

- a. Nifedipine
- b. Dopamine
- c. Propranolol
- d. Reserpine

46. The typical ECG pattern (in the appropriate leads) of Acute Myocardial Infarction:

- a. ST Depression and T Wave Inversion
- b. ST Segment Elevation
- c. Deep T Wave Inversion
- d. Right Bundle Branch Block pattern

47. One of the following drugs is used to lower blood cholesterol:

- a. Diltiazem
- b. Propranolol
- c. Frusemide
- d. Atorvastatin

48. One of the following is an antiplatelet drug:

- a. Digoxin
- b. Streptokinase
- c. Aspirin
- d. Dobutamine

49. The drug that is used to treat a cyanotic spell in a child is:

- a. Morphine
- b. Pethidine
- c. Diazepam
- d. Haloperidol

50. The supportive cells of the nervous system are:

- a. T cells
- b. Stem cells
- c. Glial cells
- d. Astrocytes

51. A 35-year old smoker with gangrene toe most probably suffers from:

- a. Thrombo-angitis obliterans
- b. Reynaud's disease
- c. Atherosclerosis
- d. Arterio-venous fistula

  
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**52. Nursing activities shown to potentially increase intracranial pressure include:**

- a. Raising the head of the bed to 30 degree
- b. Applying therapeutic touch
- c. Endo-tracheal suctioning
- d. Speaking softly

**53. The treatment of mitral stenosis is:**

- a. Balloon Valvotomy
- b. PTCA
- c. By-Pass Surgery
- d. Angiogram

**54. One of the following is a new test used in acute chest pain:**

- a. SGOT estimation
- b. Troponin T or I estimation
- c. Blood Cholesterol estimation
- d. LDH estimation

**55. The nurse should expect a patient who has chronic renal failure to be given erythropoietin (Epogen) to :**

- a. Elevate the WBC count
- b. Enhance the maturation of thrombocytes
- c. Increase the production of platelets
- d. Stimulate the synthesis of red blood cells

**56. When teaching the care-givers of a patient who has dementia of the Alzheimer type, a nurse should stress the importance of :**

- a. Increased stimuli
- b. A predictable environment
- c. Restricted activities
- d. Independent decision making

**57. Which of the following blood values on the laboratory report should a nurse expect, when assessing a patient who has emphysema?**

- a. PCO<sub>2</sub> 52 mm Hg
- b. pH 7.48
- c. PO<sub>2</sub> 94 mm Hg
- d. HCO<sub>3</sub> 21 mEq/2

58. Which of the following conditions would a nurse recognize as contributing to the development of respiratory acidosis?
- COPD
  - Hyperventilation
  - Diarrhea
  - Achalasia
59. Which of the following outcomes observed by the nurse during the drain cycle of peritoneal dialysis should be reported immediately to the physician?
- Clear yellow output
  - Cloudy output
  - Patient complaint of slight cramping
  - A drain output of 50cc less than instilled
60. Which of the following foods should be removed from the dietary tray of a patient who has hepatic encephalopathy?
- Idli
  - Drumstick leaves
  - Fresh fruit
  - Eggs
61. Which of the following findings would a nurse identify as indicative of septic shock in a patient?
- Bradycardia
  - Elevated JVP
  - Cool, clammy skin
  - S3 gallop
62. The nurse should instruct a patient who is to receive Digoxin (Lanoxin) to report development of which of the following side effects?
- Ringing in the ears
  - Loss of appetite
  - Signs of bruising
  - Sensitivity to sunlight

  
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- 63. Enteric fever is transmitted by:**
- a. Inhalation
  - b. Ingestion
  - c. Inoculation
  - d. insects
- 64. Nursing care for a patient who has polycythemia vera would focus on preventing?**
- a. Dysrhythmias
  - b. Hypotension
  - c. Thrombosis
  - d. Decubitus ulcers
- 65. The length of the spinal cord in an adult male is:**
- a. 18 cm
  - b. 45 cm
  - c. 50 cm
  - d. 36 cm
- 66. When caring for a patient who is on a mechanical ventilator, the nurse should monitor the patient for which of the following complications?**
- a. Flail chest
  - b. Pleural effusion
  - c. Pneumothorax
  - d. Pulmonary embolus
- 67. Broca's area controls:**
- a. Sensory functions
  - b. Speech
  - c. Emotions
  - d. Motor functions
- 68. Who invented the Blood grouping as A, B, O?**
- a. Landsteiner
  - b. John Gibbon
  - c. William Harvey
  - d. Robert Boucher

69. Which of the following vitamins is soluble in water?
- A
  - E
  - C
  - D
70. How many lobes are present in Right lung?
- 7
  - 2
  - 3
  - 9
71. Which plane divides the brain into unequal right and left portions?
- Frontal plane
  - Transverse plane
  - Mid-sagittal plane
  - Para-sagittal plane
72. Which channels are opened during depolarization in metabolism?
- K +
  - Na +
  - Mg +
  - Ca +
73. What is the outermost layer of heart called?
- Endocardium
  - Epicardium
  - Myocardium
  - Pericardium
74. Cholesterol is important in the human body for:
- Angiogenesis
  - Cell membrane structure
  - Enzyme synthesis
  - Osteogenesis

  
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75. In the P, Q, R, S waves in E.C.G., 'P' wave represents?
- Atrial depolarisation
  - Atrial repolarisation
  - Ventricular depolarisation
  - Ventricular repolarisation
76. To calculate cardiac output, heart rate is multiplied with?
- Stroke volume
  - Systemic arterial pressure
  - Pulmonary arterial pressure
  - Circulatory volume
77. In which organ are the 'Kupfer cells' present?
- Brain
  - Heart
  - Liver
  - Pancreas
78. "Gonads" means:
- Salivary glands
  - Sebaceous glands
  - Sweat glands
  - Testis and ovaries
79. In proteins classification, class 'A' proteins are:
- Animal proteins
  - Vegetable proteins
  - Oil proteins
  - Milk proteins
80. What is the scientific name of vitamin B6?
- Biotin
  - Pyridoxine
  - Nicotinic acid
  - Thiamine

Answer Key

Written Test on 28/11/2010-Staff Nurse-A

Region	Question	Answer
ANSWERS_1		d ✓
	2	b ✓
	3	d ✓
	4	c ✓
	5	b ✓
	6	d ✓
	7	a ✓
	8	d ✓
	9	c ✓
	10	b ✓
	11	a ✓
	12	c ✓
	13	b ✓
	14	a ✓
	15	b ✓
	16	c ✓
	17	a ✓
	18	c ✓
	19	b ✓
	20	c ✓
ANSWERS_21		c ✓
	22	a ✓
	23	a ✓
	24	b ✓
	25	a ✓
	26	a ✓
	27	d ✓
	28	b ✓
	29	a ✓
	30	b ✓
	31	d ✓
	32	c ✓
	33	c ✓
	34	d ✓
	35	c ✓
	36	b ✓
	37	d ✓
	38	c ✓
	39	b ✓
	40	b ✓
ANSWERS_41		d ✓
	42	b ✓
	43	a ✓

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Answer Key

Written Test on 28/11/2010-Staff Nurse-A

- 44 a ✓
- 45 b ✓
- 46 b ✓
- 47 d ✓
- 48 c ✓
- 49 a ✓
- 50 c ✓
- 51 a ✓
- 52 c ✓
- 53 a ✓
- 54 b ✓
- 55 d ✓
- 56 b ✓
- 57 a ✓
- 58 a ✓
- 59 b ✓
- 60 d ✓
- ANSWERS\_ 61 c ✓
- 62 b ✓
- 63 c ✓
- 64 c ✓
- 65 b ✓
- 66 c ✓
- 67 b ✓
- 68 a ✓
- 69 c ✓
- 70 c ✓
- 71 d ✓
- 72 b ✓
- 73 b ✓
- 74 b ✓
- 75 a ✓
- 76 a ✓
- 77 c ✓
- 78 d ✓
- 79 a ✓
- 80 b ✓

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