



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్  
भारतीय प्रौद्योगिकी संस्थान हैदराबाद  
Indian Institute of Technology Hyderabad

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Advt. No. IITH/2023/NF/15

Question Paper ID: **006**

Application Number of the Candidate

Name of the Post: **Staff Nurse**

Pay Level: **06**

Date & Time of the Exam: **7<sup>th</sup> December 2023**

Duration: 01 hr. 30 min

Scheme of the Exam: Multiple Answer

Instructions to fill the responses in the OMR answer sheet

1. Candidate must write his/her **application number** in the designated box on the top of OMR answer sheet
2. Candidate must write the Question paper ID in the designated box on the top of OMR answer sheet
3. Candidate must sign in the box provided in the OMR answer sheet
4. Each answer sheet must be signed by the invigilator in the space printed in the OMR answer sheet
5. Only one response to be selected & marked. In case more than one response is marked for a single question or no response is marked for a question, no marks will be awarded for that question.
6. Partially filled circles shall not be considered as responses
7. Erasing or changing of answer is not allowed.
8. No negative marking
9. Candidate must use Blue/Black ball point pen to fill his/her responses
10. Rough work should not be done on the OMR answer sheet.
11. Candidate can use the designated page(s) of the question booklet for the purpose of rough work

1. Unjumble the following words to form a sentence  
(a) Free time (b) with (c) little (d) left her (e) her job
  - a. adebc
  - b. edbca
  - c. adbce
  - d. dabce
  
2. Which of the following words is plural?
  - a. Index
  - b. Analysis
  - c. Crisis
  - d. Criteria
  
3. The computer screen can be shared with an additional display using
  - a. Windows + P keys
  - b. Window key
  - c. Shift key
  - d. Enter key
  
4. 4K resolution is
  - a. 3840p by 2160p
  - b. 1920p by 1200p
  - c. 1280p by 7200p
  - d. 3840p by 1280 p
  
5. How to convert rows (A1:A20) to columns (A1:T1) in excel?
  - a. =Transpose(A1:A20, A1:T1)
  - b. =Convert(A1:A20, A1:T1)
  - c. Click on A1 and then =Transpose(A1:A20)
  - d. Click on A1 and then =Convert(A1:A20)
  
6. Given the following values for first column in an excel file  
A1 = 3  
A2 = 6  
A3 =  
A4 = 7  
A5 = 8  
Evaluate = COUNT(A1:A5) and = COUNTBLANK(A1:A5).
  - a. 5 and 4
  - b. 5 and 1
  - c. 5 and A3
  - d. 4 and 1
  
7. Drugs for Alzheimer's disease are mostly
  - a. Dopamine receptor agonists
  - b. Acetylcholinesterase inhibitors
  - c. Selective serotonin reuptake inhibitors
  - d. Cholinergic receptor antagonists

8. A nurse is reviewing appropriate pain medications for a patient with heart failure. The nurse reminds the patient not to take non-steroidal anti-inflammatory drugs (NSAIDs) with symptomatic heart failure. Which of the following best describes the rationale for this?
- NSAIDs cause the breakdown of the stomach lining more readily among heart failure patients when compared to the general population
  - NSAIDs cause increased pulmonary congestion in heart failure patient, which can worsen breathing
  - NSAIDs are ineffective in treating the pain of heart failure
  - NSAIDs can cause a decrease in renal function and subsequent fluid overload in the heart failure patient.
9. Which of the following drugs is an example of an antitumor antibiotic that may be given to a client with cancer?
- Gentamicin
  - Tetracycline
  - Bleomycin
  - Ampicillin
10. The nurse is preparing the medications for a patient. The patient has ordered 3.75 mg of prednisone. The medication comes in 2.5 mg tabs. How many tabs will the nurse administer?
- 0.5 tab
  - 1 tab
  - 1.5 tabs
  - 2 tabs
11. A nurse cares for a patient with type 1 diabetes mellitus. Because the patient is at risk for hypoglycemia, which of the following does the nurse teach the patient?
- Glucose tablets and subcutaneous glucagon should be made available.
  - If the client is exercising, the evening dose of NPH insulin can be discontinued.
  - Urine should be monitored for the presence of acetone.
  - Assess for signs of coma and drowsiness
12. Which of the following medications is an example of a drug that a patient might receive as a muscle relaxant during surgery?
- Suxamethonium
  - Propofol
  - Codeine
  - Lidocaine

13. A nurse teaches a postoperative patient about the nasogastric tube that will be inserted in preparation for surgery. The nurse determines that the patient understands when the tube will be removed in the postoperative period when the patient states that \_\_\_\_\_.

- a. They can swallow food without vomiting.
- b. They are comfortable eating solid food.
- c. Their GI system is completely healed.
- d. Their bowels begin to function again, and they begin to pass gas.

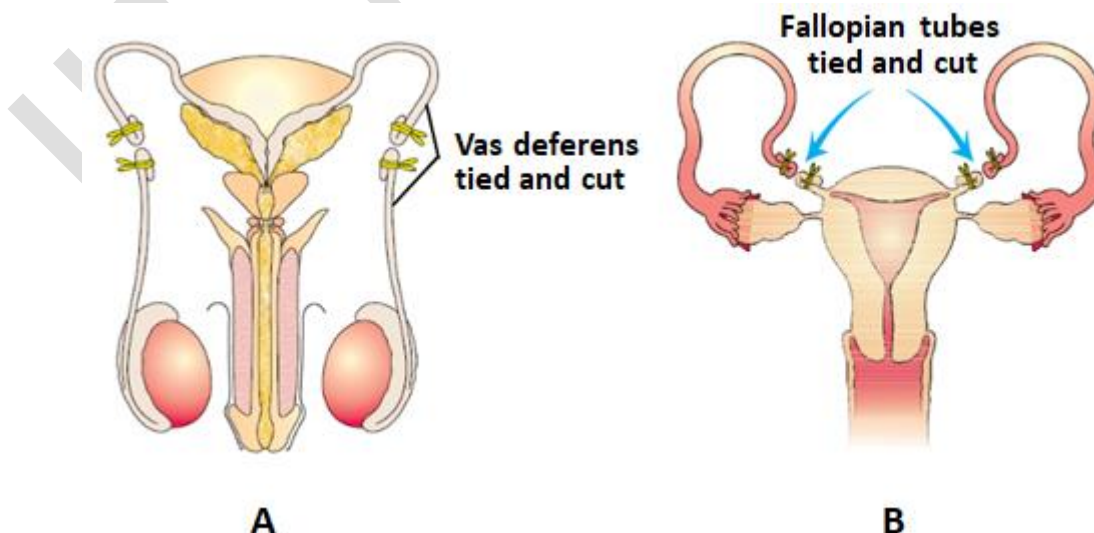
14. If a patient is taking an antifungal medication and thiazide diuretics, which of the following electrolyte disturbances would the nurse expect to find?

- a. Hypocalcemia
- b. Hyperkalemia
- c. Hypermagnesemia
- d. Hypercalcemia

15. You want to collect blood samples to understand the frequency of eosinophilia in children between the age of five to fifteen years. What would be your consideration to collect sufficient samples/number of volunteers to be able to fit occurrence of eosinophilia to a normal distribution?

- a. Lapacian theorem
- b. Central limit theorem
- c. Cauchy's theorem
- d. Identity theorem

16. Consider the two surgical procedures in figure given below and choose the correct statement:



- a. A is more difficult procedure than B.
  - b. The reversibility of A is good but that of B is very poor.
  - c. A will make the male impotent and B will make the female infertile.
  - d. Both A and B can be called sterilization procedures.
17. Location of a normal distribution with equal skewness on both sides of the distribution will have
- a. Mean greater than Median
  - b. Mean lesser than Mode
  - c. Mean equal to Median
  - d. Mode and Median are not measureable
18. What should you do if your hands touch the sink while you are washing your hands?
- a. Apply more friction during procedure
  - b. Add more soap to your hands
  - c. Repeat the procedure
  - d. Continue to wash your hands.
19. You would like to study a section of the myocardium after a massive infarct. Which stain would you use to understand the tissue viability/metabolism?
- a. Hematoxylin & Eosin
  - b. Triphenyl tetrazolium chloride
  - c. Cason's trichome
  - d. Orcein
20. Dr. John Doe is trying to understand the effect of cryotherapy in treating hepatocellular carcinoma by collecting hepatic tissue samples after the procedure. He observes chromatin condensation with blebs on H&E stain. This is indicative of:
- a. Coagulative necrosis
  - b. Part of cell division
  - c. Apoptosis
  - d. Lymphocyte reaction to cryotherapy

21. A nurse is working on a team performing CPR on a patient who has coded in the hospital. The nurse sets up the monitor and notes that the client has a pulseless electrical activity (PEA) rhythm. The team leader tells the nurse to set up for a shock. Which response from the nurse is correct?
- Set up and prepare to deliver the shock
  - Clarify the patient's heart rhythm with the team leader as shock is not indicated.
  - Administer atropine before giving the shock
  - Continue to provide bag-mask ventilation and prepare for cardioversion instead
22. Which of the following is the preferred location of intramuscular (IM) injection in infants?
- Biceps brachii
  - Rectus femoris
  - Deltoid
  - Vastus lateralis
23. This is another name for antibody-mediated immunity. It likely got its name because antibodies are present in the body fluids
- Plasma-mediated immunity
  - Humoral immunity
  - Cell-mediated immunity
  - Immune-mediated immunity
24. How many daughter cells are produced in meiosis cell division
- 8
  - 6
  - 4
  - 2
25. Progesterone is secreted by
- The mature follicle

- b. The ovarian follicle
- c. The corpus luteum
- d. The corpus albicans

26. A patient with pleural effusion is scheduled to have a thoracentesis. Which position will the nurse on duty assist the patient during the procedure?

- a. Lying in bed on the unaffected side with the head of the bed elevated about 45°.
- b. Forward side-lying position with head of bed flat.
- c. Lying in bed on the affected side with the head of the bed elevated about 45°.
- d. Supine position with both arms extended.

27. A new nurse is about to insert a nasogastric tube into a patient with Guillain-Barre Syndrome. To determine the accurate measurement of the length of the tube to be inserted, the nurse should:

- a. Place the tube at the tip of the nose and measure by extending the tube to the earlobe and then down to the top of the sternum.
- b. Place the tube at the tip of the nose and measure by extending the tube to the earlobe and then down to the xiphoid process.
- c. Place the tube at the tip of the nose and measure by extending the tube down to the chin and then down to the top of the xiphoid process.
- d. Place the tube at the base of the nose and measure by extending the tube to the earlobe and then down to the top of the sternum.

28. Which substance does not normally pass through the glomerular capsule

- a. Albumin
- b. Glucose
- c. Sodium ions
- d. Urea

29. While assessing a paralyzed patient who is below the T4 level, the medical-surgical nurse needs to find:

- a. flaccidity of the upper extremities.
- b. hyperreflexia and spasticity of the upper extremities.
- c. impaired diaphragmatic function requiring ventilator support.
- d. independent use of upper extremities and efficient cough.

30. The nurse observes the patient's amniotic fluid and decides that it appears normal, because it is:

- a. Clear and dark amber in color
- b. Milky, greenish yellow, containing shreds of mucus
- c. Clear, almost colorless, and containing little white specks
- d. Cloudy, greenish-yellow, and containing little white specks

31. Silver nitrate dressings may cause?

- a. Abnormality in blood gases
- b. Abnormal blood count
- c. Depletion of sodium and potassium
- d. Increased BUN

32. A nurse is caring for a patient in labor who is receiving Oxytocin by IV infusion to stimulate uterine contractions. Which assessment finding would indicate to the nurse that the infusion needs to be discontinued?

- a. Three contractions occurring within a 10-minute period
- b. Increased urinary output
- c. Adequate resting tone of the uterus palpated between contractions
- d. A fetal heart rate of 90 beats per minute

33. The antagonist for magnesium sulfate should be readily available to any client receiving IV magnesium. Which of the following drugs is the antidote for magnesium toxicity?

- a. Calcium gluconate



- b. Hydralazine
- c. Naloxone
- d. Anti Rh D immunoglobulin

34. Which of the following is a screening test for balance?

- a. Rinne's test
- b. Webber test
- c. Allen's test
- d. Romberg's test

35. A nurse is performing an assessment of a primipara who is being evaluated in a clinic during her second trimester of pregnancy. Which of the following indicates an abnormal physical finding necessitating further testing?

- a. Consistent increase in fundal height
- b. Fetal heart rate of 180 BPM
- c. Braxton Hicks contractions
- d. Quickening

36. The wandering phagocytes found in alveoli are called

- a. Alveolar macrophages
- b. Goblet cells
- c. Pulmonary cells
- d. Chalice cells

37. A nurse is describing the process of fetal circulation to a patient during a prenatal visit. The nurse accurately tells the patient that fetal circulation consists of:

- a. Two umbilical veins and one umbilical artery.
- b. Two umbilical arteries and one umbilical vein.
- c. Arteries carrying oxygenated blood to the fetus.
- d. Veins carrying deoxygenated blood to the fetus.

38. A nursing instructor is conducting a lecture and is reviewing the functions of the female reproductive system. She asks the student nurse to describe the follicle-stimulating hormone (FSH) and the luteinizing hormone (LH). The student nurse accurately responds by stating that:
- FSH and LH are released from the anterior pituitary gland.
  - FSH and LH are secreted by the corpus luteum of the ovary
  - FSH and LH are secreted by the adrenal glands
  - FSH and LH stimulate the formation of milk during pregnancy.
39. Which among the following is not a short-acting benzodiazepine
- Lorazepam
  - Diazepam
  - Oxazepam
  - Alprax
40. A patient with Addison's disease is receiving fludrocortisone acetate. The nurse knows that the therapeutic effect of this is to \_\_\_\_\_
- Stimulate thyroid gland production.
  - Activate parathyroid production
  - Maintain electrolyte balance
  - Activate the immune response
41. In the menstrual cycle, lowering of which hormone causes menstruation
- Progesterone
  - Thyroxine
  - Estrogen
  - Follicle-stimulating hormone
42. The type of delusion most commonly seen in manic patients is \_\_\_\_\_
- Delusion of persecution

- b. Delusion of grandeur
- c. Delusion of guilt
- d. Nihilistic delusion

43. At the cellular level, maturation of synthesized proteins, protein sorting, packaging, and secretion are the functions of which subcellular organelles:

- a. Mitochondria
- b. Lysosomes
- c. Golgi body
- d. Cytosol

44. A mental disorder characterized by stereotype speech is \_\_\_\_\_

- a. Mannerism
- b. Cataplexy
- c. Verbigeration
- d. Negativism

45. Nurse Sushma is aware that language development in autistic child resembles:

- a. Scanning speech
- b. Speech lag
- c. Stuttering
- d. Echolalia

46. Some amino acids are termed non-essential as they

- a. Are not components of tissue proteins
- b. May be synthesized in the body from 'essential' amino acids
- c. Have no role in metabolism
- d. May be synthesized in body in prolonged fasting

47. When teaching parents about childhood depression, should Nurse Victoria say

- a. It may appear acting out behavior.

- b. Does not respond to conventional treatment.
- c. Is short on duration & resolves easily.
- d. Looks almost identical to adult depression

48. Patau syndrome is also called as

- a. Down's syndrome
- b. Trisomy 13
- c. Klinefelter syndrome
- d. Trisomy 18

49. The serum antibody responsible for fighting gram +ve pyogenic bacteria is

- a. IgA
- b. IgD
- c. IgE
- d. IgG

50. A 12-month-old receives a series of vaccinations which includes the Hepatitis A vaccine. When should the child receive the 2nd dose of this vaccine?

- a. in 3 months
- b. at the 18-month visit
- c. when the child is 4-6 years' old
- d. in 2 months

51. The maximum amount of electrolytes and water (70-80%) from the glomerular filtrate is reabsorbed in which part of the nephron?

- a. Ascending limb of the loop of Henle
- b. Distal convoluted tubule
- c. Proximal convoluted tubule
- d. Descending limb of the loop of Henle

52. The nurse is assessing a six-month-old infant. Which developmental skills are normal and should be expected?

- a. Pulling up to a standing position

- b. Can feed self with a spoon
- c. Sits independently
- d. Speaks in short sentences

53. ICDS scheme beneficiaries consist of:

- a. Children below 6 years
- b. Pregnant and lactating women
- c. Women in the age group of 15-44 years
- d. All of the above

54. The nurse is caring for the mother of a newborn. The nurse recognizes that the mother needs more teaching regarding cord care because she

- a. Keeps the cord exposed to the air
- b. Washes her hands before sponge bathing her baby
- c. Washes the cord and surrounding area well with water at each diaper change
- d. Checks it daily for bleeding and drainage

55. This method dehydrates microbial cells by plasmolysis, thereby causing them to die

- a. Heating
- b. Smoking
- c. Pasteurization
- d. Sugaring

56. Which of the following instructions would Nurse Sunitha include in a teaching plan that focuses on initial prevention for Sejal who is diagnosed with rheumatic fever?

- a. Treating streptococcal throat infections with an antibiotic
- b. Giving penicillin to patients with rheumatic fever
- c. Using corticosteroid to reduce inflammation
- d. Providing an antibiotic before dental work

57. A baby of 6 months presented with hyperreflexia, spasticity, hyperthermia, and seizures. On examination, the baby was found to have hypernatremic dehydration. What is the first priority in the restoration of intravascular volume?

- a. Lactated Ringer's solution
- b. 1/2 glucose saline
- c. 3% saline
- d. Normal saline

58. The Reddy Family is caring for their youngest child, Ketan, who is suffering from tetralogy of Fallot. Which of the following are defects associated with this congenital heart condition?

- a. Aorta exits from the right ventricle, pulmonary artery exits from the left ventricle, and two noncommunicating circulations
- b. Ventricular septal defect, overriding aorta, pulmonic stenosis (PS), and right ventricular hypertrophy
- c. Coarctation of aorta, aortic valve stenosis, mitral valve stenosis, and patent ductus arteriosus
- d. Tricuspid valve atresia, atrial septal defect, ventricular septal defect, and hypoplastic right ventricle

59. 4 patients were presented to you while you were on call. Which of the following patients is at most risk for hypomagnesemia?

- a. 25-year-old suffering from hypoglycemia.
- b. 57-year-old with hyperthyroidism.
- c. A patient reporting overuse of antacids and laxatives.
- d. A 55-year-old chronic alcoholic.

60. All of the following are the techniques used to avoid aspiration in a child, *except*

- a. Elevate the head of the bed 30 degrees
- b. Avoid overfeeding
- c. Feed the child in a supine position
- d. Burp frequently during bottle feeding