



SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY

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ROLL NUMBER

**WRITTEN TEST FOR THE SELECTION OF NURSING OFFICER IN
INFECTION CONTROL UNIT**

DATE: 26/11/2025

TIME: 10.30 A.M To 11.30

DURATION: 60 MINUTES

Total Marks: 50

INSTRUCTIONS TO THE CANDIDATES

1. Write your Roll Number on the top of the Question Booklet and in the answer sheet.
2. Each question carries 1 mark.
3. There will not be any Negative Marking.
4. Write legibly the alphabet of the most appropriate answer (A, B, C or D) in the separate answer sheet provided.
5. Over-writing is not permitted.
6. Candidate should sign in the question paper and answer sheet.
7. No clarifications will be given.
8. Candidate should hand over the answer sheet to the invigilator before leaving the examination hall.

Signature of the Candidate

(Signature)

1. Which statement correctly defines an item as 'semi-critical' according to the Spaulding Classification System?
 - a. Items that enter sterile tissue or the vascular system.
 - b. Items that contact mucous membranes or non-intact skin
 - c. Items that contact intact skin only.
 - d. Items that are used once and then discarded.
2. What is the minimum recommended duration for scrubbing the hub of a central line using an antiseptic (e.g., alcohol or chlorhexidine) before accessing it?
 - a. 5 seconds.
 - b. 15 seconds.
 - c. 30 seconds.
 - d. 60 seconds.
3. A patient's room is under Airborne Precautions. Which action is necessary before opening the door to enter the room?
 - a. Don the N95 respirator and ensure it is sealed correctly.
 - b. Ensure a yellow "Isolation" sign is on the door.
 - c. Put on a clean isolation gown.
 - d. Verify the patient has a surgical mask on.
4. Which of the following is the single most effective intervention for preventing catheter-associated urinary tract infections (CAUTIs)?
 - a. Prophylactic antibiotic administration upon insertion.
 - b. Routine bladder irrigation with antiseptic solution.
 - c. Daily assessment of necessity for catheter
 - d. Using only silicone catheters.
5. The most common mode of pathogen transmission during routine patient care is:
 - a. Droplet inhaled.
 - b. Contact with contaminated bed linens.
 - c. Healthcare workers' hands.
 - d. Improper sterilization of critical instruments.
6. Resident flora of hands include all, EXCEPT:
 - a. MRSA
 - b. Corynebacteria
 - c. Coagulase negative staphylococci
 - d. Pseudomonas aeruginosa
7. A patient requires isolation for suspected meningococcal meningitis. What type of precaution is required, and what is the primary piece of PPE for all staff entering the room?
 - a. Airborne; N95 Respirator.
 - b. Contact; Gown and Gloves.
 - c. Standard; Gown
 - d. Droplet; Surgical Mask
8. The doors of operation theatre should ideally be
 - a. Made of wood
 - b. Sliding doors
 - c. Hinge doors
 - d. Made of Glass
9. A type of hospital- acquired infection from a diagnostic or therapeutic procedure is
 - a. Nosocomial infection
 - b. Iatrogenic infection
 - c. Airborne infection
 - d. Opportunistic infection
10. What is the recommended temperature and humidity in an operation theatre?
 - a. 15-19° C, 18%
 - b. 20-24° C, 60%
 - c. 25-29° C, 50%
 - d. 30-34° C, 30%

11. For which of the following infection, is a negative pressure isolation required?
 - a. VRE urinary infection
 - b. Influenza
 - c. Varicella
 - d. MRSA skin infection
12. Which of the following is NOT a process surveillance measure?
 - a. Hand hygiene compliance rate
 - b. Surgical prophylaxis policy adherence rate
 - c. Care bundle audit
 - d. VAP rate
13. Which among the following is the correct outbreak investigation pathway?
 - a. Confirm diagnosis-Develop hypothesis – Test hypothesis – Create case definition
 - b. Create case definition-Confirm diagnosis-Develop hypothesis- Test hypothesis
 - c. Confirm diagnosis-Create case definition-Develop hypothesis-Test hypothesis
 - d. Confirm diagnosis-Develop line listing-Create case definition-Test hypothesis
14. Which among the following is NOT a critical category equipment?
 - a. Prosthetic implant
 - b. Suture material
 - c. Surgical scalpel
 - d. Flexible endoscope
15. At what temperature is flash sterilization executed?
 - a. 134°C
 - b. 121°C
 - c. 160°C
 - d. 145°C
16. Which among the following disinfectant gets inactivated by organic matter?
 - a. Sodium hypochlorite
 - b. Phenol
 - c. Glutaraldehyde
 - d. Peracetic acid
17. Which among the following antiseptic classes have no mycobactericidal action?
 - a. 70% Ethyl Alcohol
 - b. Povidone iodine
 - c. Lysol
 - d. Benzalkonium chloride
18. The recommended parts per million (ppm) of chlorine for disinfecting blood spills is
 - a. 100
 - b. 1000
 - c. 10000
 - d. 100000
19. What happens when a person with HBs antibody titre of 20 mIU has an abrasion which was exposed to HBsAg positive blood?
 - a. Titre becomes 10mIU/ml
 - b. This acts as a booster dose
 - c. Person becomes a non-reactor
 - d. Person becomes a chronic carrier
20. What is the appropriate time for hygienic hand rub?
 - a. 20-30 sec
 - b. 30-40 sec
 - c. 40-60 sec
 - d. 10-20 sec
21. Which among the following is the incubation period for varicella?
 - a. 3-5 days
 - b. 7-10 days
 - c. 10-21 days
 - d. 3-4 weeks
22. A HCW was exposed to HIV positive blood. The PEP drugs are available only after 48 hrs. What would be the advice that is given??
 - a. Take the drugs immediately
 - b. PEP drugs will not be effective
 - c. Potency of drugs might have expired
 - d. The drugs will be effective upto 96 hrs

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23. What is the chance that a person will become seropositive for HIV/HBsAg after an accidental exposure to blood (AEB) (for per-cutaneous exposure)
- 0.03%/50%
 - 0.3% / 30%
 - 3%/0.3%
 - 30%/0.03%
24. What is the recommended minimum number of air changes per hour (ACH) in a negative pressure isolation room?
- 8
 - 12
 - 16
 - 24
25. Which among the following is a "clean-contaminated" category of surgical procedure?
- Open cardiac massage
 - Aneurysm surgery with gastric spillage
 - Appendectomy
 - Amputation of dry gangrene of foot
26. As per NABH recommendations, what is the minimum number of air changes per hour (ACH) recommended in a superspecialty OT?
- 8
 - 12
 - 20
 - 24
27. In cohort nursing, the minimum recommended patient separation space is
- 2 feet
 - 3 feet
 - 5 feet
 - 6 feet
28. What PPE is essential for suction of a Tuberculosis positive patient?
- Goggles
 - Gown
 - Shoe Cover
 - Head cap
29. Administration sets in continuous use for blood and blood components should be changed every
- 6 hours
 - 8 hours
 - 10 hours
 - 12 hours
30. WHO recommends repeat dosing of pre-operative surgical antimicrobial prophylaxis (SAP) when there is bleeding of _____
- >1 lit
 - >1.5 lit
 - >2 lit
 - >2.5 lit
31. In which of the following situations, alcoholic hand rub is NOT the recommended method of hand hygiene
- Atypical mycobacteria wound infection
 - UTI due to *Candida parapsilosis*
 - VAP due to Colistin resistant *Klebsiella*
 - Necrotising enterocolitis
32. Which of the following is NOT a semi-critical device as per Spaulding classification?
- Laryngoscope blade
 - Electrocardiography electrodes
 - Ultrasound probe
 - Endotracheal tube
33. Which of the following packaging material is not recommended for ETO sterilisation
- Paper plastic pouches
 - Tyvek
 - Polypropylene
 - Nylon
34. Which of the following color bags waste combination is **INCORRECT**:

- a. Yellow- blood bag
 - b. Red- needle cap
 - c. White - needle
 - d. Black- cytotoxic drugs
35. An operating theatre in the hospital is being refurbished and the air quality with regard to microbial contamination must be checked. How is this best achieved?
- a. Environmental swabs
 - b. HEPA filter culture
 - c. Slit air sampling
 - d. Post-operative SSI rate
36. Appropriate urine specimen for culture is collected from
- a. Clean bedpan or urinal
 - b. From urine bag
 - c. Voided urine
 - d. First drop of urine in the morning
37. A patient is receiving 100 ml of IV fluids per 24 hours. Using an IV set with drop rate of 15 drops/ml, the nurse should plan to regulate the IV is
- a. 10 drops/min
 - b. 15 drops/min
 - c. 20drops/min
 - d. 25drops/min
38. The process which makes inanimate objects safer to be handled by health professional before cleaning is
- a. Sterilisation
 - b. High level disinfection
 - c. Decontamination
 - d. Cleaning
39. When suctioning an unconscious patient, what infection control precaution must be taken?
- a. Administer analgesics
 - b. Head raised
 - c. Hyperoxygenate
 - d. Release cuff pressure
40. Example of acid-fast bacilli is
- a. E. coli
 - b. Non-tuberculous mycobacteria(NTM)
 - c. Clostridium
 - d. Corynebacterium
41. Which of the following steps is done first when you start research?
- a. Determining the population
 - b. Identification of a problem
 - c. Formulation of research question
 - d. Data collection
42. Cell- mediated immunity, a part of acquired immunity, primarily involves :
- a. B cells
 - b. Eosinophils
 - c. Macrophages
 - d. Neutrophils
43. Which sterilization method is ideal for oils and wax?
- a. Filtration
 - b. Pasteurisation
 - c. Ethylene oxide gas
 - d. Hot air Oven
44. The theme for World Hand Hygiene Day 2025 is
- a. "It might be Gloves. It's always hand hygiene"
 - b. "Unite for safety: clean your hands."

- c. "SAVE LIVES: Clean Your Hands".
- d. "Seconds save lives – clean your hands!"

45. Which of the following is a method of primary prevention for a specific disease?

- a. Screening for early detection of cancer
- b. Rehabilitation after a stroke
- c. A public health campaign to reduce smoking
- d. Treatment with medication for high blood pressure

46. Primordial prevention is done in which population?

- a. With risk factors
- b. Without risk factors
- c. Whole population with low prevalence of disease
- d. Population with diseases

47. Type I hypersensitivity is mediated by

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

48. Widal test is used to detect the presence of antibody to which of the following microorganism?

- a. *E. coli*
- b. *Mycobacterium tuberculosis*
- c. *Haemophilus influenzae*
- d. *Salmonella Typhi*

49. While suctioning a new born baby's mouth and nose, which part needs to be suctioned first?

- a. Mouth
- b. Nose
- c. Simultaneously
- d. Based upon the amount of secretions

50. Beta lactam antibiotics include all, **EXCEPT**:

- a. Cepheims
- b. Penicillin
- c. Amikacin
- d. Meropenam

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ICN Exam 26/11/2025 - KEY

Qn No.	Option
1	b
2	b
3	a
4	c
5	c
6	d
7	d
8	b
9	b
10	b
11	c
12	d
13	c
14	d
15	a
16	a
17	d
18	c
19	b
20	c
21	c
22	a
23	b
24	b
25	c

26	c
27	b
28	a
29	a
30	b
31	d
32	b
33	d
34	c
35	c
36	c
37	a
38	c
39	b
40	b
41	b
42	c
43	d
44	a
45	c
46	b
47	d
48	d
49	a
50	c

Key:-