



SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY
THIRUVANANTHAPURAM—695 011, INDIA.
(An Institute of National Importance under Govt. of India)
Phone—(91)0471—2443152 Fax—(91)0471—2446433, 2550728
Email—sct@sctimst.ac.in Web site—www.sctimst.ac.in

ROLL NUMBER

WRITTEN TEST FOR THE POST OF TECHNCIAN CSR – A To B

DATE: 19/03/2024

TIME: 9.30 to 10.30 AM

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)
19/3/24

MFCP- Technician- CSSD

1. Sterilization packaging is classified as
 - a) Class I medical device
 - b) Class II medical device
 - c) Class III medical device
 - d) Class IV medical device
2. The best mode of sterilization in materials containing medical PVC is
 - a) Hot air oven
 - b) Steam sterilization
 - c) Chemical sterilization
 - d) ETO sterilization
3. The permissible employee exposure to EtO measured as an 8-hour time-weighted average (TWA) is restricted to
 - a) 1 ppm
 - b) 50 ppm
 - c) 100 ppm
 - d) 20 ppm
4. The recommended relative humidity in the storage area of CSSD should not exceed
 - a) 70%
 - b) 30 %
 - c) 35%
 - d) 20%
5. Which of the following procedures help to preventing formation of biofilm inside endoscopes?
 - a) applying air pressure to the inside of the endoscope
 - b) immersion in glutaraldehyde
 - c) flushing with detergent
 - d) drying with forced air
6. Sterilization methods used in hospitals include nonionizing and ionizing radiations. Which among the following is ionizing?
 - a) Infrared
 - b) X-rays and gamma rays
 - c) Halogens
 - d) Ethylene oxide
7. classification system divides medical devices into categories based on the risk of infection involved with their use
 - a) Spaulding
 - b) Fleming
 - c) Lister
 - d) Theiler
8. In the order of resistance of microorganisms to disinfectants/sterilisants, which is the hardest to kill
 - a) Prions
 - b) Fungi
 - c) Vegetative bacteria
 - d) Enveloped viruses
9. Endoscopes and valves can be immersed in which of the disinfectant solution of proven efficacy
 - a) Glutaraldehyde
 - b) Ethanol
 - c) Distilled water
 - d) Potassium permanganate

10. Regarding the decontamination of flexible endoscopes: Which of the following is false?
- a) Chlorine compounds are damaging functionally.
 - b) Endoscopes should not be immersed in disinfectant if there is a leak with the pressure test for risk of damaging components.
 - c) Endoscopes are not damaged by the low temperatures utilized
 - d) Flexible endoscopes should be stored vertically after use to keep them straight.
11. Degassing to remove toxic residues should be done after sterilization with
- a) Gas plasma
 - b) Ethylene oxide
 - c) Hydrogen peroxide
 - d) Ozone
12. All are advantages of Ethylene oxide sterilizer except
- a) Useful for heat sensitive instruments
 - b) Non corrosive and excellent material compatibility
 - c) Easily diffusible so that it can penetrate the area where steam cannot reach
 - d) Long duration of cycles due to aeration phase
13. A major cause of pack contamination is
- a) Quality bacterial barriers
 - b) Quality moisture barriers
 - c) Excessive handling
 - d) Reduced microbial presence
14. Anaesthesia equipment comes under which category
- a) Critical device
 - b) Semi critical device
 - c) Non critical device
 - d) Essential Medical Device
15. Which of the following is an oxidizing agent?
- a) Glutaraldehyde
 - b) Alcohol
 - c) Peracetic acid
 - d) Sodium hypochlorite
16. What is the percentage of ethyl alcohol used for hand hygiene
- a) 60-90%
 - b) 100%
 - c) 10-20%
 - d) 50%
17. Which of the following articles cannot be steam sterilized
- a) Surgical instruments
 - b) Linen
 - c) Endoscopes
 - d) None of the above
18. Recommended relative humidity in CSSD is
- a) 30-60%
 - b) 60-70%
 - c) 70-80%
 - d) 20-30%

19. All the statements are true about Ultrasonic cleaner except
- a) It is a preferred method of hard-to-reach parts of surgical instruments such as hinges, joint serrations and crevices
 - b) Precleaning before subjecting to instruments is not needed
 - c) It works on the principle of creating vacuum in the solution that draws out debris from the instruments
 - d) Ultrasonic process needs to be validated yearly to ensure safety
20. The activities related to preventive maintenance of equipment
- a) Calibration
 - b) Part replacement
 - c) Lubrication
 - d) All of the above
21. Linen can be used as a packaging material in
- a) Ethylene Oxide sterilizer
 - b) Plasma sterilizer
 - c) Steam sterilizer
 - d) Hot air oven
22. Zone 2 in a CSSD is
- a) Unclean and washing area
 - b) Assembly and packing area
 - c) Sterilization area
 - d) Sterile area
23. Based on their work activities and risk of exposure to blood and body substances, which of the following risk stratification categories do staff of CSSD belong
- a) Category A
 - b) Category B
 - c) Category C
 - d) Low risk
24. Which of the following areas should be under negative pressure?
- a) Decontamination area
 - b) Preparation and packing area
 - c) Sterile storage area
 - d) Delivery area
25. Spraying the used instrument with an enzymatic solution is called
- a) Force cleaning
 - b) Disinfection
 - c) Pre-cleaning
 - d) Leak test
26. Which of the following is not an advantage of Automated Endoscope Reprocessors
- a) They replace manual cleaning
 - b) They automate several reprocessing steps
 - c) Reduce the chance of a reprocessing step being skipped
 - d) Reduce personnel exposure to chemical sterilants

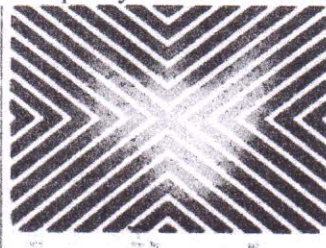
27. Which statement is not true regarding plasma sterilization
- a) Items should be totally dried before loading
 - b) Linen or cellulose cannot be processed
 - c) Occupational exposure has been linked to haematologic changes
 - d) Cannot be used for bulk items
28. Concentration of peracetic acid used for sterilization is
- a) 0.1-0.2%
 - b) 0.2-0.5%
 - c) 0.5-1.0%
 - d) 1.0-2.0%
29. The Bowie Dick test is now known as the:
- a) Dynamic air removal test
 - b) Air challenge test
 - c) Process challenge test
 - d) Diagnostic test
30. At the end of the sterilization cycle, the EO cartridges and the gloves used to handle them should be:
- a) Aerated
 - b) Disinfected
 - c) Washed
 - d) Irradiated
31. What are the basic parameters of gas sterilization in a 100% EO sterilizer apart from concentration exposure time?
- a) Humidity and aeration
 - b) Humidity and temperature
 - c) Vacuum and pressure
 - d) Vacuum and aeration
32. Which of the following packaging materials is not recommended for ETO sterilization?
- a) Paper plastic pouches
 - b) Polypropylene
 - c) Tyvek
 - d) Nylon
33. Which of the following should not be processed in a low temperature gas plasma sterilizer?
- a) Light cords
 - b) Gauze sponges
 - c) Cameras
 - d) Single channel endoscopes
34. Hydrogen Peroxide sterilization occurs by a process called _____.
- a) Thermal Disinfection
 - b) Reduction
 - c) Alkylation
 - d) Oxidation
35. Which of the following materials should be used to wrap materials in a gas plasma sterilizer?
- a) Polypropylene
 - b) Cellulose
 - c) Linen
 - d) Paper

- 4
36. Type V chemical indicators measure all the following variables except
- Time
 - Temperature
 - Humidity
 - Steam Quality
37. Which of the following can be used as sterilization control for Ethylene Oxide
- Bacillus atrophaeus
 - Bowie Dick test
 - Temperature displays
 - All of the above
38. Geobacillus stearothermophilus is used as the biological indicator in all the following methods except
- Hot air oven
 - Steam sterilizer
 - Gas plasma
 - Liquid acetic acid sterilizer
39. In the CSSD, documentation is useful for all except
- Quality assurance
 - Instrument recall
 - Sterility control
 - Patient tracing
40. Disinfection of soiled linen should be done by
- Phenol
 - 0.5% Sodium hypochlorite solution
 - 2% Glutaraldehyde
 - All of the above
41. All are advantages of steam sterilizer except
- Non toxic and effective
 - Penetrative packing
 - Suitable for sterilization of oils and powders
 - Easy to control cycles and monitor
42. Purified water should have a pH of
- | | |
|--------------|--------------|
| a) 3.5 - 4.5 | c) 5.5 - 6.5 |
| b) 4.5 - 6.5 | d) 6.5 - 7.5 |
43. Plasma sterilization occurs by a process called
- Thermal Disinfection
 - Chemical Disinfection
 - Alkylation
 - Oxidation
44. ETO sterilization occurs by a process called
- Thermal Disinfection
 - Chemical Disinfection
 - Alkylation
 - Oxidation

45. What does this symbol represent?



- a) Single patient use
 - b) Single procedure use
 - c) Single packing
 - d) Single disinfection process
46. Which among the following is NOT "semi-critical" equipment?
- a) Endoscope
 - b) Endotracheal tube
 - c) Cardiac catheter
 - d) Laryngoscope blade
47. Which among the following can be used for disinfection of endoscopes?
- a) Isopropyl alcohol
 - b) Hydrogen peroxide
 - c) Sodium hypochlorite
 - d) Peracetic acid
48. Which among the following strain is used as the biological indicator for autoclave?
- a) Clostridium tetani
 - b) Bacillus subtilis
 - c) Bacillus atrophaeus
 - d) Geobacillus stearothermophilus
49. What is the available free chlorine concentration (ppm – parts per million) in 1% sodium hypochlorite solution?
- a) 10 ppm
 - b) 100 ppm
 - c) 1000 ppm
 - d) 10000 ppm
50. Identify this quality control test in sterilization(Shown in the picture below)



- a) Bowie Dick test
- b) Helix test
- c) Chick Martin test
- d) Emulating indicator test

Name of category: MFCP -CSSD TechnicianANSWER KEY

1	b	21	a	41	c
2	d	22	b	42	d
3	a	23	a	43	d
4	a	24	a	44	c
5	c	25	c	45	b
6	b	26	a	46	c
7	a	27	c	47	d
8	a	28	a	48	d
9	a	29	a	49	d
10	a	30	a	50	a
11	b	31	b		
12	d	32	d		
13	c	33	b		
14	b	34	d		
15	a	35	a		
16	a	36	c		
17	c	37	d		
18	a	38	a		
19	b	39	d		
20	d	40	b		

KauJ
19/3/24