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Answer Sheet No.

Sig. of Candidate.

Sig. of Invigilator.

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OPERATION THEATRE TECHNIQUES HSSC-I**SECTION – A (Marks 20)****Time allowed: 25 Minutes**

NOTE: Section-A is compulsory and comprises pages 1-2. All parts of this section are to be answered on the question paper itself. It should be completed in the first 25 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.

- (i) Which of the following statements is **CORRECT** regarding Gram stain?
- A. Developed in 1984 by Gram B. It separates bacteria into three groups
- C. Gram positive bacteria stain blue D. Gram negative bacteria stain black
- (ii) Which of the following statements is **FALSE** regarding bacterial spores?
- A. Spores are highly heat resistant B. They are not killed by many disinfectants
- C. Clostridium species form spore D. Boiling will kill spores
- (iii) Predominant organism in skin flora is _____
- A. Staph Epidermidis B. Staph Aureus
- C. E. Coli D. Malarial Parasite
- (iv) A Microorganism is a Pathogen if _____
- A. It is bigger in size B. It multiplies rapidly
- C. It is capable of causing disease D. It is gram positive
- (v) Which of the following Bacteria commonly cause urinary tract infection?
- A. E. Coli B. Anaerobic bacteria
- C. Staphylococcus Epidermiditis D. Clostridium
- (vi) Dengue fever is caused by _____
- A. Virus B. Bacteria
- C. Protozoa D. Chlamydiae
- (vii) AIDS is caused by _____
- A. HIV virus B. HIV virus and HIV bacteria
- C. HIV Nematoda D. HIV and HCV virus
- (viii) Which of the following blood groups is a universal donor?
- A. A Positive B. B Positive
- C. AB Negative D. O Negative
- (ix) Sterilization kills _____
- A. Bacteria and virus B. Bacteria, virus and fungi
- C. All micro-organism including spores D. Spores
- (x) Which of the following modes of Diathermy is used to control bleeding?
- A. Cutting mode B. Unipolar mode
- C. Tripolar mode D. Coagulation mode
- (xi) Vaporizer is a part of _____
- A. Diathermy B. Cardiac monitor
- C. Defibrillator D. Anesthesia machine

- (xii) Which of the following machines will be used to give DC shock to a patient with Heart attack?
- A. Defibrillator B. Pulse oximetre
C. Shock machine D. Heart machine
- (xiii) A patient died immediately blood transfusion starts. Most likely its cause is _____
- A. Mismatched blood transfusion B. Cold blood transfusion
C. Warm blood transfusion D. Hepatitis C blood transfusion
- (xiv) A patient with severe Diarrhoea presents in Emergency. Which infusion will you give him?
- A. 5% Dextrose water B. 10% Dextrose water
C. Ringer lactate solution D. Distilled water
- (xv) By which method will Endoscopes be sterilized?
- A. Heat sterilization B. Dry Heat sterilization
C. Chemical sterilization D. Gas sterilization
- (xvi) Rheumatic fever is caused by _____
- A. Staphylococcus B. Pneumococcus
C. Streptococcus D. Meningococcus
- (xvii) Dengue fever spreads by _____
- A. Every mosquito bite B. Scorpion bite
C. Rat bite D. Poor sanitary conditions and sleeping in open air
- (xviii) Which of the following organisms causes Bloody Diarrhoea?
- A. Rota virus B. Vibria cholerae
C. Bacillus Anthracis D. None of these
- (xix) Gas Gangrene is caused by _____
- A. Gram Negative organism B. Gram Positive rod
C. Gram Positive cocci D. Anaerobe virus
- (xx) Which of the following tests can guide regarding immunity of an individual?
- A. Hb B. TLC
C. Platelets D. PO_2

For Examiner's use only:

Total Marks:

20

Marks Obtained:

— 1HA 1345 —



OPERATION THEATRE TECHNIQUES HSE

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Time allowed: 2:35 Hours

Total Marks Sections B

NOTE: Answer any twenty-five parts from Section 'B' and any two questions from Section 'C' on separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION – B (Marks 50)

Q. 2 Attempt any TWENTY-FIVE parts. The answer to each part should not exceed 2 to 4 lines. (25 x 2 = 50)

- (i) Write a short note on Gram Staining.
- (ii) Give four examples of Gram positive bacteria.
- (iii) Name four Gram negative bacteria.
- (iv) Name four organisms causing Meningitis.
- (v) Write a short note on Bacterial cell wall.
- (vi) Name the diseases caused by Rickettsiae.
- (vii) Name four diseases caused by Protozoa.
- (viii) Write a short note on Scrubbing.
- (ix) Name four common bacteria causing pneumonia.
- (x) Name bacteria which commonly cause wound infection.
- (xi) Name two chemical sterilizers.
- (xii) Name four commonly used Disinfectants.
- (xiii) What precautions will be taken for a patient being operated who is Hepatitis C positive?
- (xiv) Classify Virus.
- (xv) Describe the structure of Virus.
- (xvi) Describe the role of Skin in immunity.
- (xvii) Define Sterilization.
- (xviii) How will you give first aid to a patient who has met a Road traffic accident.
- (xix) Name various parts of Diathermy machine.
- (xx) What is Defibrillator?
- (xxi) What are maintenance requirement of OT equipment?
- (xxii) Draw Surgical Diathermy.
- (xxiii) What are heating and cooling requirements of operation theatre?
- (xxiv) Name the diseases caused by Clostridium species.
- (xxv) Name the diseases caused by Streptococcal species.
- (xxvi) What are the diseases caused by Spirochetes?
- (xxvii) How can malaria be prevented?
- (xxviii) Differentiate between Sterilization and Disinfection.
- (xxix) Name various scrubbing materials.
- (xxx) Name various Gases used for sterilization.
- (xxxi) Write down the precautions used for Surgical Diathermy.

SECTION – C (Marks 30)

Note: Attempt any TWO questions. All questions carry equal marks.

(2 x 15 = 30)

Q 3. Describe Heat Sterilization.

Q 4. Write a detailed note on Staphylococcus Aureus including its structure, pathogenicity, mode of spread and disease.

Q 5. Describe various parts of Anesthesia machine and their functions.