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BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Optomety-2021/B.Optomety-2022

Course Name – Introduction to Quality & Patient Safety

Course Code - BOPTOE607B

(Semester VI)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Which of the following two statement is true about Quality Assurance? (i) QA is a set of activities for ensuring quality in the process and outcome. (ii) QA is material or product oriented only.
 - a) Option (i)
 - b) Option (i) and (ii)
 - c) Option (ii)
 - d) None of these
- (ii) Choose the right statement [if any] i) Biomedical waste are not infectious ii) Incineration is a good way to treat biomedical waste
 - a) Option i)
 - b) Option ii)
 - c) Options i) and ii)
 - d) None of these
- (iii) What is the purpose of segregating hospital waste into different categories?
 - a) To increase waste volume
 - b) To reduce environmental pollution
 - c) To simplify disposal procedures
 - d) To facilitate recycling efforts
- (iv) _____ is the practice of placing patients with the same infectious disease but no other infection, in proximity.
 - a) Colonization
 - b) Cohorting
 - c) Transmission
 - d) Herd Vaccination
- (v) What is the primary mode of action of antibiotics?
 - a) Inhibiting protein synthesis in bacteria
 - b) Disrupting the cell membrane of bacteria
 - c) Preventing bacterial replication
 - d) All of these
- (vi) Which of the following is a potential side effect of antibiotic use?
 - a) Antibiotic resistance
 - b) Allergic reactions
 - c) Gut microbiome disruption
 - d) All of these
- (vii) The color of fluorescein staining in corneal ulcer is
 - a) Green
 - b) Yellow
 - c) Purple
 - d) Orange
- (viii) Which of the following organisms can penetrate intact corneal epithelium?

- a) Streptococcus pyogenes b) Staphylococcus aureus
c) Pseudomonas pyocyanea d) Corynebacterium diphtheriae
- (ix) In disaster management, what does the acronym "ICS" stand for?
a) International Crisis Support b) Incident Command System
c) Integrated Communication Strategy d) Incident Control Station
- (x) Which of the following is NOT a potential hazard that hospitals should be prepared for in disaster management?
a) Earthquakes b) Cyberattacks
c) Volcanic eruptions d) Solar flares
- (xi) _____ exercises powers regarding biomedical waste management in India.
a) Ministry of Labour and Employment b) Ministry of Health and Family Welfare
c) Ministry of Home Affairs d) Ministry of Environment and Forests
- (xii) Which of the following is NOT a key component of patient safety culture?
a) Open communication b) Blame culture
c) Confidentiality d) Informed consent
- (xiii) Which of the following is a strategy to prevent patient falls in hospitals?
a) Limiting patient mobility b) Providing slippery floors
c) Reducing lighting in corridors d) Placing bed alarms on high-risk patients
- (xiv) What does PPE stand for?
a) Personalized Protective Equipment b) Protective Product Equipment
c) Personal Protective Equipment d) Protective Performance Equipment
- (xv) What is the purpose of autoclaving in hospital waste management?
a) To recycle waste materials b) To reduce the volume of waste
c) To sterilize infectious waste d) To transport waste from the site of production to an off site location

Group-B

(Short Answer Type Questions)

3 x 5=15

2. How should sharps be disposed of in optometry clinics? (3)
3. Categorize the types of disasters. (3)
4. How can antibiotic resistance be prevented? (3)
5. List the criteria for segregation of waste. (3)
6. Explain some drawbacks of the incineration method of waste management. (3)

OR

Illustrate an example of breaking the contamination chain in a regular comprehensive optometry clinic. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. What are some common methods of biomedical waste treatment and disposal? (5)
8. Elaborate about vital signs and primary assessment (5)
9. Explain any 2 mechanisms underlying antibacterial resistance. (5)
10. Mention the main components of biomedical waste and the health hazards associated with it. (5)
11. Define CPR and mention the basic steps of CPR (5)
12. Contrast "Head to Toe Examination of a Trauma Patient with significant MOI (Mechanism of Injury)". (5)

OR

Elaborate on why SOPs are important in Optometric clinic. (5)