



BRAINWARE UNIVERSITY

Term End Examination 2022

Programme – B.Sc.(OTT)-2021/B.Sc.(OTT)-2022

Course Name – Introduction to Healthcare Delivery System in India/Introduction to Healthcare Delivery System in I

Course Code - BOTT103/BOTTC103

(Semester I)

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) The term health is defined in many ways. The most accurate definition of the health would be
- | | |
|-------------------------------------------------------------------------|-------------------------------------------------|
| a) Health is the state of body and mind in a balanced condition | b) Health is the reflection of a smiling face |
| c) Health is a state of complete physical, mental and social well-being | d) Health is the symbol of economic prosperity. |
- (ii) Which of these is not a definition of health?
- | | |
|-------------------------------------|----------------------------|
| a) Health as not ill | b) Health despite disease. |
| c) Health means not seeing a doctor | d) Health as vitality. |
- (iii) Socioecological approach to community health recognises that a person
- | | |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| a) All of these | b) Social environment, norms and values of community |
| c) Interconnected with environment factors. | d) Government policies that reflect the community and Needs removal of barriers to promote healthy lifestyle changes |
- (iv) Which one of the following is a legal requirement to be complied with in relation to records?
- | | |
|------------------------|---------------------------------|
| a) Data Protection Act | b) Caldicot principles |
| c) NMC Record Keeping | d) Code of Professional Conduct |
- (v) The prefix "brady-" means which of the following?
- | | |
|--------------|-------------|
| a) away from | b) downward |
| c) irregular | d) slow |
- (vi) EMR is an abbreviation for which of the following
- | | |
|-----------------------------------|------------------------------|
| a) Electronic medical record | b) Emergency Medical Record |
| c) Electronic Method of Recording | d) Electronic Medical record |
- (vii) A blood donor who has been recently diagnoses positive HbsAg should be deferred for how long?

- a) Permanently
c) for 3 months
- b) For 6 months
d) for 1 year
- (viii) Which of the following statements about Personal Protective Equipment (PPE) are correct?
- a) Employees utilizing PPE should be properly trained
c) PPE should be worn and stored only inside the laboratory
- b) PPE should be chosen based upon the work being completed
d) PPE should be worn and stored only inside the laboratory
- (ix) The mutation in hemoglobin genes leads to the production of defective
- a) Hemoglobin
c) Neutrophils
- b) Antigens
d) Basophil
- (x) An individual with blood type O- could potentially have which blood antibodies present in their plasma?
- a) Both A and B antibodies
c) A antibodies
- b) Aneither of them
d) B antibodies
- (xi) What method is used for: observation of unstained structures in dark field or using phase contrast (tissue cultures)?
- a) Electron microscope
c) Light microscope
- b) Transmission electron microscope
d) Autoradiography
- (xii) What is the temperature of the paraffin the tissue is placed in?
- a) 76 degree centigrade
c) 56degree centigrade
- b) 35degree centigrade
d) 70 degree centigrade
- (xiii) When compared to the first immune response to the same antigen, which of the following is not a hallmark of the secondary immune response?
- a) Antibody is generated fast
c) Antibody is generated without T-cell help
- b) Many antibodies is produced
d) Antibody produced has a greater affinity for the antigen
- (xiv) Arrangement of nucleotides in DNA can be seen using which of the following instruments?
- a) Electron microscope
c) X-ray crystallography
- b) Light microscope
d) Ultracentrifuge
- (xv) Hemoglobin C disease occurs when a single nucleotide change in a codon causes lysine (basic) to replace normal glutamic acid (acidic) at the beta 6 positions. Hemoglobin C disease is characterized by
- a) Mild normochromic-normocytic anemia
c) Rod-shaped crystals in erythrocytes
- b) Splenomegaly
d) All of these

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Define the health care system (3)
3. Write the biosafety measures during radiation. (3)
4. Classify various methods of disinfection with suitable examples. (3)
5. Explain the common application of microtome. (3)
6. Write briefly about conjugated proteins. (3)

OR

How ESR value is estimated? (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. List the core function of public health. (5)
8. Write down the schemes of Primary health care in India. (5)
9. Illustrate the host defense immunizing agents. (5)
10. Classify antigen-antibody reactions. (5)

11. Define autoimmunity. Describe the pathogenesis of various autoimmune disorders and tests employed to detect them. (5)

12. Discuss about nutritional deficiency anemia. (5)

OR

Distinguish between \hat{I}^2 Thalassemia and \hat{I}^{\pm} -Thalassemia. (5)
