Shikshan Mandal Karad's

Mahila Mahavidyalaya Karad

B.Sc (Part 1) Preliminary-I Examination DSC 25A :Microbiology-I (CBCS)

| Time-1:00pm to 3:00pm | Total marks-40 |
|--|---|
| Instructions:1)All questions are com 2)Figures to right indic | ate full marks. |
| 3)Draw neat and labelle | ed diagrams wherever necessary. |
| Q1. Fill in the blanks by choosing | correct alternative . [8] |
| a) R.H. Whittaker proposed ai)Bacteriaiii) Prions | kingdom Classification of organisms. ii) viroids iv) Viruses |
| b) Small pox vaccine was invent i)Edward Jenner iii) Robert Koch | ii)Louis Pasteur iv)Francesco Redi |
| c)are an acellular mi i) Bacteria iii) Fungi | ii)Algae iv)Virus |
| d)type of ribosomes ii)80s | are present in a eukaryotic cell iii)40s iv)70s |
| i) Louis Pasteur | animalcules' were made by ii)Antony van Leuwenhoek iv)Lazzaro Spallanzani |
| f) The spherical shaped bacteria i)Cocci iii)Spiral | are called as ii)Bacillus iv)Coccobacillary |
| g) NAG and NAM are linked wii) β(1-2) iii) β(1-4) | ith each other bytype of linkage. ii)peptide bond iv) β(1-6) |

| peptide |
|---------|
| [16] |
| system. |
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| |
| [16] |
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Shikshan Mandal Karad

Mahila Mahavidyalaya karad

B.Sc. Microbiology (Part 1)

Preliminary Examination (Paper II)

Sub code-DSC 25A

Date: 12/01/2023 Day: Wednesday Thursday.

| Time: 1:00pm to 3:00pm | Total marks-40 | |
|--|--|-------|
| Instructions | :1)All questions are compulsory. | |
| |) Figures to right indicate full marks. | |
| 3) |) Draw neat and labeled diagrams wherever necessary. | |
| Q1. Fill in the blanks by | y choosing correct alternative. | [8] |
| 1. In compound microscope the image of bacteria is observed when it is magnified | | times |
| a) 1000 b)100 | c)10 d)10000 | |
| | | |
| 2. Alocohol is used as | in Gram staining. | |
| a) Mordant | b)Decolourising agent | |
| c) Counter stain | d)Secondary stain | |
| 2 | | |
| | illumination in the light microscope. | |
| a) Visible light/U.V Lig | ht b)Electrons | |
| c) Photons | d)Neutrons | |
| 401 | | |
| 4Glasswares are sterilized | d by | |
| a)Incineration | b)Hot air oven | |
| c)Filteration | d)Dessication | |
| 5is used in steriliza | ation of rooms. | |
| a)Beta-propiolactone | b)Formaldehyde | |
| c)Chlorine | d)Ethlene oxide | |
| 6 = | | |
| 6. The refractive index of | air is | |
| a) 1.8 | b) 0.1 | |
| c)1 | d)1.5 | |

| 7is counter stain in Gram staining | |
|---|------|
| a) Safranin b)Alcohol | |
| c) Crystal violet d) Gram's Iodine | |
| 8is example of neutral satin | |
| a) Methylene blue b)Giemsa's stain c)Congo red d)saffranin | |
| Q2. Write a short note on (any four) | [16] |
| 1. Cell wall staining | . , |
| 2. Phenol and phenolic compounds | |
| 3. Pasteurization | |
| 4. Resolving power | |
| 5. Simple staining | |
| 6. Seitz filter | |
| Q3.Attempt any two of the following | [16] |
| 1. Describe in detail Radiations for sterilization. | [20] |
| 2. Draw ray diagram and explain the principle and working of Compound Microscope. | |
| 3. Describe in detail mechanism of Gram staining. | |
| 4. What are stains, explain types of stains in detail. | |