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B.Sc.(MLS) (2011 to 2017) (Sem.-2) SYSTEMATIC BACTERIOLOGY Subject Code: BMLS-202 Paper ID: [D1118]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

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O1 Write a note on:

- a) Capsule staining.
- b) Culture media.
- c) Nagler's reaction.
- d) Laboratory diagnosis of Clostridium.
- e) Carbohydrate fermentation.
- f) Germ tube test.
- g) Gram positive rod.
- h) Mac Conkey agar.
- i) Culture characteristics of Treponema Pallidum.
- j) Z-N staining.

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SECTION-B

- Q2 Explain the laboratory diagnosis of Mycobacterium tuberculosis.
- Q3 What is the difference between Gram positive and Gram negative cell wall?
- Q4 Give the culture characteristic of Pseudomonas.
- Q5 Explain the laboratory diagnosis for Mycobacterium tuberculosis.
- Q6 Discuss the morphology and culture characteristics of corynebacterium.

SECTION-C

- Q7 Write a commonly used method for isolation of pure culture of bacterium.
- Q8 Describe the morphology, pathogenesis and laboratory diagnosis of Salmonella.
- Q9 Elaborate on various biochemical reactions used for the identification of bacteria.

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