BV (2)/ML & MDT-2.2/18 (MC)

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MEDICAL LABORATORY AND MOLECULAR DIAGNOSTIC TECHNOLOGY

QP: Medical Lab Technician

Paper: S-2.2 and the

(General Microbiology)

Full Marks: 40

Time: 2 hours

The figures in the margin indicate full marks for the questions

1. Fill	in the blanks: 1×5	=5
V-1 - "V	The increase in bacterial cell number occurs by cell division, which is known as	
(b)	Gram-positive bacteria takes up the dye and appears purple colour after gram staining.	Nidal
(c)	Small circular bacterial DNA is called	
(d)	but not all microbes in liquid.	, funzahin
(e)	The bacterial cell wall is chemically composed of	
8A /1041	Konstruite OR (Turn Over	r)

- 2. Write short notes on any five of the confollowing:
 - (a) Disinfectant
 - (b) Continuous culture
 - (c) Cell line
 - (d) Generation time
 - (e) Bacterial spore
 - (f) Cell wall

L'angella

- (q) Culture media
- 3. Answer any three of the following questions:

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5×3=15

- (a) Mention the difference between prokaryotic and eukaryotic cell.
- (b) Describe the bacterial growth curve.
- (c) Write a note on Koch's postulates.
 - (d) Write about the techniques involved in isolation of pure culture in laboratory.
 - (e) Write about the bacterial conjugation.

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- **4.** Answer any *one* of the following questions: 10
 - (a) Compare the cell walls of gram-positive and gram-negative bacteria.
 - (b) Classify bacteria based on shaped and arrangement with examples.
 - (c) What is Gram staining? Write briefly about the gram stating procedure involved.

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