RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College affiliated to University of Calcutta)

FIRST YEAR [2017-20]

B.A./B.Sc. FIRST SEMESTER (July – December) 2017 Mid-Semester Examination, September 2017

Date : 14/09/2017 MICROBIOLOGY (General)

Time : 12 noon – 1 pm Paper : I Full Marks : 25

1.	a)	What are 'chromophore' and 'auxochrome' groups? Explain with proper examples.	[1+1]
	b)	Mention the important purposes of staining.	[2]
	c)	What is a mordant? Mention the important functions of a mordant with suitable examples.	[1+2]
	d)	Define phtotolithotrophic and chemolithotrophic autotrophs. Give examples.	[2]
2.	a)	'Amino acids are the building block of proteins'—Explain.	[2]
	b)	'Maltose is a reducing sugar but sucrose is not '- Why?	[2]
	c)	State the major contributions of Robert Koch in the field of Microbiology.	[2]
	d)	Define numerical aperture of a microscope.	[2]
	e)	What are tiny animalcules?	[2]
3.	a)	What is a cyst?	[1]
	b)	Write down the life cycle of <i>Plasmodium</i> with a suitable diagram.	[3+2]
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FIRST YEAR [2017-20]

B.A./B.Sc. FIRST SEMESTER (July – December) 2017 Mid-Semester Examination, September 2017

Date: 12/09/2017 MICROBIOLOGY (General)

Time: 11 am – 12 noon Paper: I Full Marks: 25

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1.	a)	What are 'chromophore' and 'auxochrome' groups? Explain with proper examples.	[1+1]
	b)	Mention the important purposes of staining.	[2]
	c)	What is a mordant? Mention the important functions of a mordant with suitable examples	s. [1+2]
	d)	Define phtotolithotrophic and chemolithotrophic autotrophs. Give examples.	[2]
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3.	a)	What is a cyst?	[1]
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