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## BF-114-2016

## FACULTY OF SCIENCE

## B.Sc. (First Year) (First Semester) EXAMINATION NOVEMBER/DECEMBER, 2016

(Old Course)

ZOOLOGY

Paper II

(Cell Biology)

(MCQ & Theory)

(Saturday, 10-12-2016)

Time: 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

- N.B. := (i) Attempt All questions.
  - (ii) Use separate answer sheet (OMR) for Question No. 1.
  - (iii) One mark to each correctly answer of MCQ.
  - (iv) Negative marking system is applicable.
  - (v) Use black ball point pen to darken the circle of correct choice in OMR answer-sheet.
  - (vi) Draw well labelled diagrams wherever necessary for Question Nos. 2, 3 and 4.

## (MCQ)

- 1. Select the *correct* answer for each of the following MCQs:
  - (i) If a microscope has an  $10 \times$  objective lens and  $10 \times$  occular lens, it would magnify the object by :
    - (a) 100 x

(b) 50 x

(c) 20 ×

- (d) 10 ×
- (ii) Cell boundary of animal cell is:
  - (a) Cell wall

(b) Plasma membrane

(c) Both (a) and (b)

(d) None of these

P.T.O.

WT			(2)		BF—114—2016
	(iii)	Endoskeleton of cell is made up of:			
		(a)	Endoplasmic reticulum	(b)	Mitochondria
		(c)	Cell wall	(d)	Cytoplasm
	(iv)	Dictyosome is also called as:			
		(a)	Lysosome	(b)	Mitochondria
		(c)	Golgi body	(d)	Ribosome
	(v)	Suicide bags in cells are:			
		(a)	Contractile vacuole	(b)	Ribosomes
		(c)	Golgi body	(d)	Lysosome
	(vi)	Nuclear envelope is also known as:			
		(a)	Karyokinesis	(b)	Nuclear sap
		(c)	Karyotheca	(d)	Nuclear lamina
	(vii)	Who coined the term Nucleolus?			
		(a)	Fontana	(b)	Robert Brown
	200	(c)	Camillo Golgi	(d)	Robert Hooke
	(viii)	If the centromere is present near about in the middle of t			
		chromosome, then this type of chromosome is called as:			
		(a)	Acrocentric	(b)	Metacentric
		(c)	Telocentric	(d)	Sub-metacentric
	(ix) Which phase of mitosis is the longest				phase ?
		(a)	Telophase	<i>(b)</i>	Anaphase
		(c)	Metaphase	(d)	Prophase
	(x)	Lukemias are also called as			cancer.
		(a)	Liver	( <i>b</i> )	Blood
	1 2 2 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	(c)	Brain	(d)	Kidney
	300 F	9 4 6 5 9 9	(Theory	y)	
2.	Expla	embrane. 10			

WT( 3 ) BF-114-2016 OrWrite notes on: Dissecting microscope (a)Anaphase of mitosis. (b) Describe the structure and functions of mitochondria. 10 3. OrWrite notes on: Structure of 70'S' ribosome (*a*) (b) Significance of Meiosis. Give an account on structure and functions of Lysosomes. 4. 10 OrWrite notes on: Types of chromosomes according to shapes (a)

Non-malignant cancer.

(*b*)