SANGAM SKM COLLEGE - NADI
YEAR 11 BIOLOGY
WORKSHEET – WEEK 2

Question 1

Match the terms with their correct descriptions by writing the letters beside the names.

	atom	**A**	Atoms that are chemically bonded together
	cell	**B**	A body part made of tissues that together perform a similar function
	organ	**C**	All of the populations of living things in an area
	population	**D**	The smallest unit of an element; made of protons, neutrons and electrons
	Organ system	**E**	The basic organizational unit of all living things
	biome	**F**	Organs that work together for a common purpose
	molecule	**G**	A well defined structure within a cell that performs a specific function
	tissue	**H**	A group of interbreeding organisms living in the same area
	Organism	**I**	An individual living thing capable of reproduction
	Cellular organelle	**J**	A grouping of similar cells with a specific function
	biosphere	**K**	A community and all of the physical characteristics of its environment; all of the living and nonliving things in an area
	community	**L**	All of the ecosystems with similar climates
	ecosystem	**M**	All of the living things present on, above or in the earth

Question 2

a) State two rules for the correct use and handling of microscopes.

b) List **four** steps used to view a slide under the microscope at high power?

Question 3

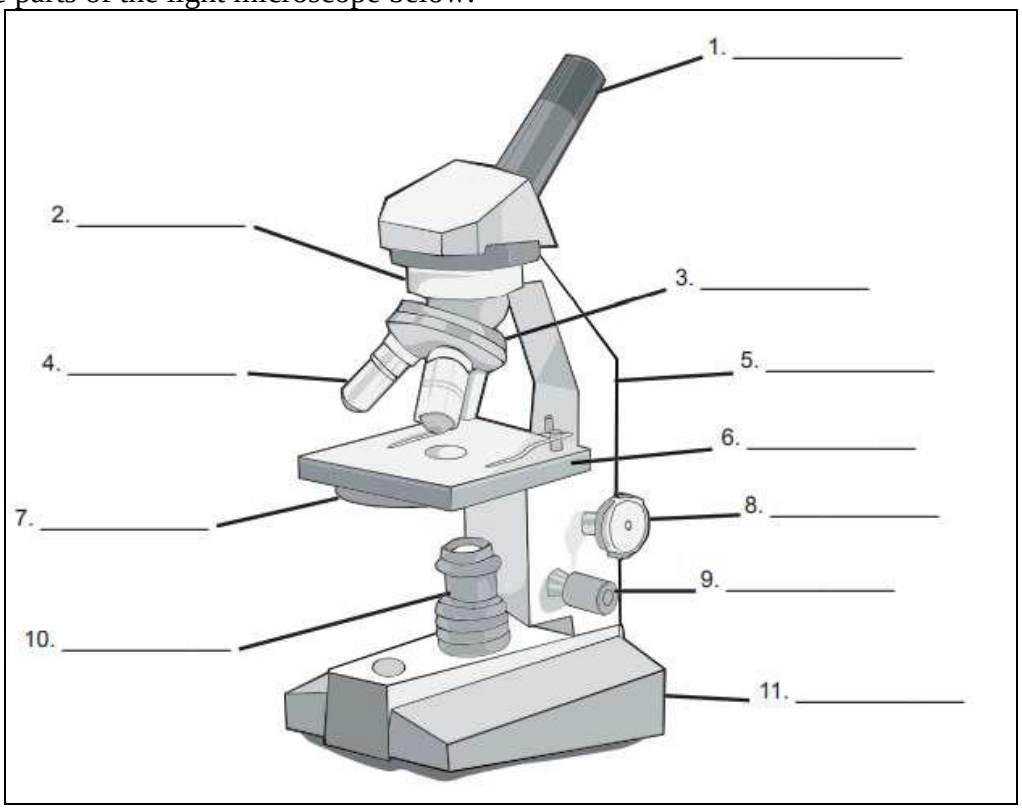
a) What does resolution mean?

b) Given below is a diagram, complete the diagram showing resolution.

Letter 'e' on a piece of paper	Letter 'e' as seen under the microscope.
e	

Question 4

Label the parts of the light microscope below:

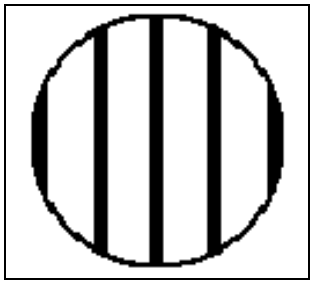


Question 5

a) Which of the following sets of lenses on a microscope would show the greatest number of cells when used to view the same tissue?

	Objective Lens	Eye Piece Lens
A.	10x	5x
B.	20x	10x
C.	40x	5x
D.	40x	10x

b) The diagram given below is of a millimeter ruler placed under 10x eyepiece lens and 4x objective lens.



i. Calculate the total magnification of the microscope.

ii. What is the diameter of the field of view in millimeters?

iii. If 16 cells were seen across the diameter of field of view, calculate the size of one cell.