fun	ctions. You mu	ust select a str	om the list below th ucture once only.				(release of anormy) mitachandria			
mit	tochondria	ribosome	Golgi vesicle	centriole	nucleus	cytoskeleton	(movement of cilia) cytoskeleton;			
(i)	release of e	nergy					(secretion of theus) Golgi (vesicle);			
(ii)	movement of	of cilia					316.00°			
iii)	secrete muc	cus			N	otes	5			
			4	frO	$u_{i,j}$	a of 7	9			
)	Complete the	passage below	eview	na	1 sk	10.	partially / selectively;  (facilitated) diffusion <b>OR</b> osmosis;  phospholipids;			
	Membranes h	ave a virgety of	flunctions in cells.							
	permeable. Th	is means that t	they allow the passa	age of certain	substances	by processes suc	(facilitated) diffusion <b>OR</b> osmosis ;			
	as active trans	sport or	thr	rough the me	mbrane. The	cell surface	plasma:			
	membrane, al	so known as th	e	membi	rane, surroun	ds the cytoplasm	phospholipids;			
	The cell surfac	ce membrane d	consists of a bilayer	of		. To stabilise the	cholesterol;			
	structure of th	tructure of the membrane and keep it fluid, molecules of are								
	also found in t	his bilayer.				[5	5]			
(b) Membranes contain a variety of proteins. Some of these proteins are combined with carbohydrates to form glycoproteins.						th				
	Describe the f	escribe the functions of glycoproteins in the cell surface membrane.								
1	(acting as) a	ntigens :			repetition of same	point				
		dentification / recognition, (of cells) as, self / non-self / AW;								
3	cell signallir	ng / described ;			ACCEPT description e.g. communication between cells / cell responds to, chemical / signal, from another cell  ACCEPT description of attachment process for receptor / binding site					
4		nding site, for, hal) signal / (med	normone / dicinal / named) drug	ıs;						
		DO NOT ACCEPT molecule unqua ACCEPT binding site / trigger, on transport proteins / AW;  DO NOT ACCEPT molecule unqua ACCEPT binding site for foreign an ACCEPT ref to receptors on ion characteristics.								
6	cell adhesion / to hold cells together (in a tissue);  ACCEPT bind to other						cell adhesion			
7	attach to wat	er molecules (to		.						

(a)	Stat	e <b>two</b> reasons why the blood smear has been stained.	
			visible / can be seen / increase contrast;
(b)			o uk
			a hed example of what is now visible (after
		Notesale.	staining);
		om Notes	
		aview as 12	
	•	gest <b>one</b> detail that would be made visible if the micrograph were taken using	3D shape can be seen / greater depth of field;
	Sug	gest <b>one</b> detail that would be made visible if the micrograph were taken using	
	(i)	a scanning electron microscope	can see, surface features / detail;
	(ii)	a transmission electron microscope.	
			smaller / named, organelle (becomes visible);
			,,
			shapes / details of organelles;