No: Date:	
Pumping organ! The heart,)
- located in clase to accept	
0 1	sacs
· Pericardium, protects heart	fluid: gan
from over-extension.	Biecuspid:
(walls of heart)	Mitral.
	2 10 10
Endoce	ndium
Epicaloum Proposition.	/
· made up of	Tricuspid value:-
special types of	OL DE
• walls of muscles - cardiac	-> 3 flaps.
left venticle muscle.	- Gibrous coras
are three contain myofibrils	Chordae tendinae
4 filamens of	
is = al.	to papillary
1 110 000	extension of
rentide. Successive are separated by junctions.	walls of right
intercalated	venture.
DIAC:	. \ 5
upper - thin walled atria.	right va heart
Chambers Tower > thick walled vertice	1 POV - lung
. 0. 1/400 010	
· Heart acts as double pump system	uc.
	& Blood & Coty
venae casae right athum T.C. Vol	right veniville.
deoxygenated B	L
last atrium oxygenated lungs lift & wigo	ni Pulmonary
left atrium oxygenates lunge lieft & high	
B-C-V AAAA	
215+ rentille gosta, body lexuest le	11191
lift ventricle aosta, body lexuest le	00 D.)

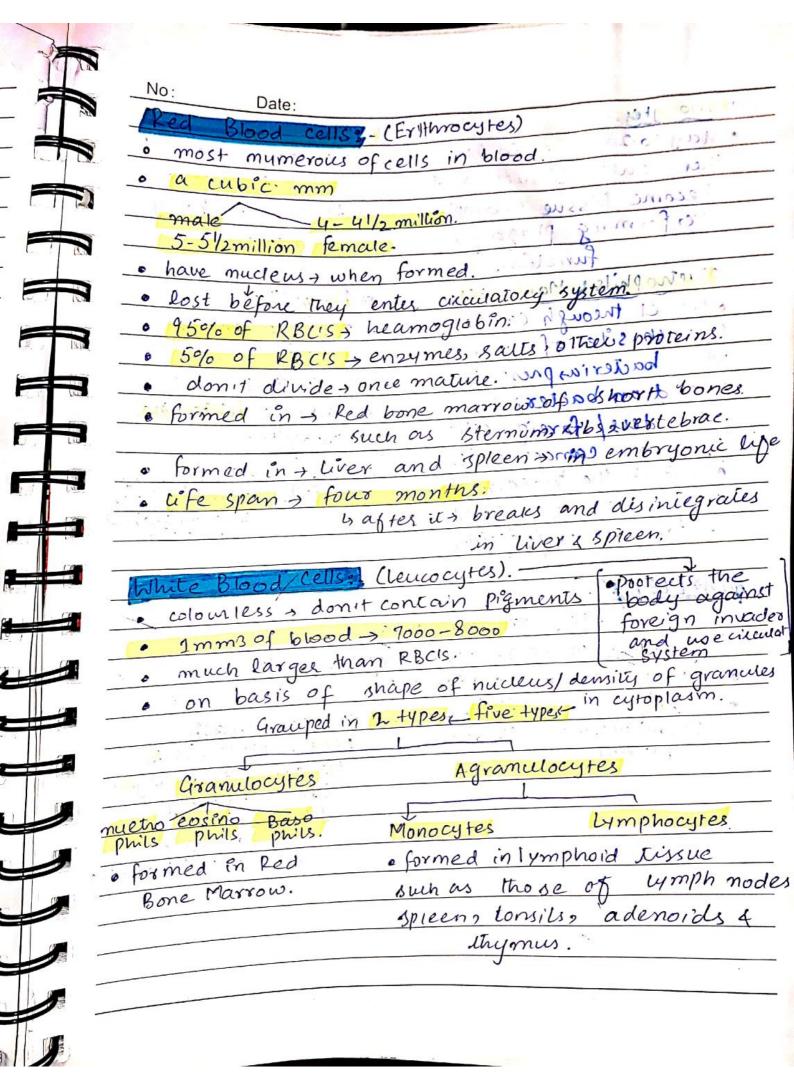
No: Date: pept-carehod.
Brachen Sub-claiman.
Discovered 1
cephalic.
Brochial A (lungs)
nepatic V , Hepatic
Mesentii i
Hepatic Renal.
Portal Conadal
vein, small I
The production of
Jon of Glace . Many
CARROLL OF
is let the same and the same an
The Cardiac Cycles-
RECEIVED TO THE STATE OF THE ST
Diastole (Relaxation Phase): - (0.4 sec).
vaena caeva Doo right atrium Jualls are
pumonary vein o.B, left atwom. relaxed.
• SL values closed state.
· AV values open.
Atrial systole: - (0.1sec)
Atria contract SI values closed.
venticles are relaxed. Av values open.
14 1 3 3 3e of
Ventricular systole: 10.3 seed. plubb sound.
venticles contract. Av values closed.
St values open.
At start of SL values open.
At end + be values dose
4 DUBB
Sound.

No: Date:	A Comment of the Comm
Date.	. 1 , 53 • 5/ 1 - 5 - 1
Mechanism:	1 otnim
SA node , at uppe	r end ef right atrium.
¥ (
alma implicato	small number of
atrial muxles.	diffusely oriented
J. J.	cardiac fibers.
atria continet.	S. V. L.
	myo few news
· We to see you have	fibrils endings
Impulses.	from autonomic
L' musculature	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
of action 4	
to orthoventradar	
mode interventions	m → myocardium of
septum.	- ventide.
delay to 15 sec (from SA +A	-V)
Flat.	3315 mm 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Electrocardogrami-	Entropy to the State of
Flactor las an Ckin a Oppos	le sides of heart
Electiones - on smins in	potential can be
Electrodes - on skin , opposi Electrocardio (el oto diagnose gram (recorded.
· to diagnose	
abnormalities	
in a byth micely	the section is and the
· conduction	A true e e a A
Actificial Pacemaker.	and shi
eintiating the impulses	which rigger heart
beat nate.	A
	1 1
sugar soire : theombus	

No: Date:	
Blood Vessels_	
ci) Anteriesz.	
Blood - away From heart - body.	
layers:	
econtraction of smooth	
outer middle knier. muscles of autories.	
· C-T · Thick epithelium, necuosa endocnine sys.	
fibers. emusular omusule contract (vasosinictio	
. DIA 111.	n)
bibers. reduce the flaw of blood.	
o mugle he laxed (vasodilatio	n)
[anteries more blood flows.	
divide -) capillaries	
· want was in the second	
Athero sclerosis.	
atheres porridge	
Sheleris = hardening.	
and the rest. The same the second of	31
Atheroma: deposition of hard yellow plaque of	_
lipoid material + innermost layer of	_
due to high cho lestero) - arteries.	_
Acteriosclesosisi	8
degenerative arterial change.	
thickening of middle layer of anteres	-
Atheroscierosisi.	_
marioning/hardening of arteries	4
· nisk of formation of thrombus.	- [
,	ĺ
	- 1
	/1

_No: Date:
Capillaries:
- walls - only one cell thicks.
-> permeable
4 water & dissolved substances pars in
and out exchanging
• oxygen • coz · dissolved food · excreta.
- oxygen · coz · dissolved food · excretoly
_ > Diameteri-
record stimulation + contraction
- (chemicals) Histornines - dialation.
Exemple of Materials:
- Active transport & diffusion: -
cells of cap > interstitial fluid > body cells.
mace II was spaces.
endocytosis: exocytosis:
capillaries join + veins - venules.
Veins: - Body -> Heart.
olayes (same as arteries)
Middle - thin & signily musular
with hew plant is libert
• SL values> prevent back flow of blood.
· Veins join -> lange veins -> vena caeva
vena caeva
Blood Pressure:
a manufacted by warriers acterioles > capillaries > vanues > veins>
o generated by venicile systole Lavae
F II

No:	Date:
Thron	nbosis:-
	solid mass/plug of blood constituents in
	a blood vessel.
• ma	y block the versel/dislodged & carried
to .	some other location in circulatory surjem
	- embolus
	ous formations-
(1) Lu	itation/Infection of lining of Bov
(M) Re	duced rate of blood flow.
	song periods of Practicity
in the	umoma, tuberunosis, emphysema.
Mrs	
Block	andias infarction:
100	kage by embolus causes neurosis/
• di	damage to polition of heart muscles.
1,4	ith accompanying, archythmias,
	especially ventricular fibrillation.
Cerel	bral infarction:
in	a blood vessel in the brain. causes
	death of nueval tissue called stroke.



No: Date:	
2BCG	" Platelels & home bounded
(Erythnocytes)	Membrome bounded
· Biconicave disc unithout	eytoplasmic fragments
mudlers.	0600115 111 1300
sum in diameter.	manows megakanyo
5000000 /mm3.	Second Jamm3
Transport 02 & LO2 (mall amount	250000 1 mm3
Still senign 1	a unvoluced
White Blood cells:	Blood clothing
(7500 per mm3)	n ditte
12 Nuchophils. E- Esinophi	3 Basophils
· twice the size · twice the	size fwice the size
of RBCIS. of RBCIS.	of PBUS.
o nucleus :-	
-> 2-5 lobed> bilobed.	-> bilobed.
=> 620/0 of WBCIS -> 20/0 of WBC	15 less than 1%.
	3 + Heparin
-, phagocytosis -> Inactivate inflammation	on b prevent Blood closs
producing si	20,73
attack paras	ites, causes inflamma
Agranulocytes.	
Manocules (Lym)	hocytes.
2-3 times langee . slig	nily larger than
than RBC15. RE	3015.
o mucleas · muc	leus.
	rely fills the cell.
· 30/0 of WBCIS. • 320/0	ofulbcis
· produce macro. • pro	duce immune
	onse by producing
cytosis	antibodies.
	-

No: Date:		
	Hemopoietic s	tem cells
Red Blo	od	phagocyle
Red Blo Stem ce	us. Jumphoid Ste	
Red Blood	lymphoid Ste	Dhago gutes.
cells		phago cytes.
	0	us: monocyte,
56.00 1 71.113	Marrow J	macrophages
B- Ivan	ht. The Flam	phocyte,
Plasma D	J	or week a special and a second
Plasma J		must be a said
1.2. 2003.6	Partition and a second	The fall of the second
a twice	S	gar in a tella
3187 V	0, 177	111 10
	4 . 1 e V e 1	
V S C C S C C C C C C C C C C C C C C C	estable and the	- 11 J + 2 - 11 - 2 - 1
les combinations	and the second second	A TO HOLD TO A STORY
<u> </u>	The state of the s	
Year Table To the Teacher	Start Start Start	

Presented By

Saeeda Maryam.

Remember in Your Prayers.