Re	g. No. :			
Na	ıme :			
	Second Professional M.B.B.S D PATHOLOGY (Includes Lab Medicine a	Y (Pa	aper – I)	
Гin	ne: 2 Hours		Max. Ma	rks : 40
	SECTIO)N –	A	
I.	Single best response type.			
	a) Do not write anything on the question p	papeı	•	
	b) Write your register number in the answ	ver sh	eet provided .	
	c) Select one most appropriate response a alphabet against each question number		2 0	
	1) 'Tell tale sign of ageing' isa) Melaninc) Hemosiderin	b) I		
			_	
	2) Basement membrane is composed ofa) Type Ic) Type III	b) 7	Conagen Гуре II Гуре IV	
	3) Fixative of choice for cytology			
	a) 10% formalinec) 95% ethyl alcohol		8% HNO ₃ Osmium tetroxide	
	4) All are examples of free radicals EXCE	ЕРТ		
	a) Ferrous ionsc) Glutathione Peroxidase	ŕ	Гransferrin Ceruloplasmin	
	5) Which of the following is a powerful cl	hemo	pattractant?	
	a) Thromboxane A ₂		Nitric Oxide	
	c) Leucotriene B ₄	d) I	Bradykinin	P.T.O.

II.



, =	_		
6) All are antigen presentinga) B cellsc) CD₈ T cells	g cells EXCEI	PT b) NK cells d) Dendritic cells	
C	1 CT 11 1	,	
7) Which is NOT an examp a) Rheumatoid arthritis	le of Type II I	Hypersensitivity? b) Autoimmune hemol	lytic anemia
c) Myasthenia gravis		d) ABO incompatabili	
8) All are features of autoso	nt disorders EXCEPT		
a) Onset of disease is la		b) Variable expressivit	y
c) Variable penetrance		d) Consanguinity	
			$(8\times\frac{1}{2} = 4 \text{ Marks})$
Match the following:			
A) 1) EDTA	A) Coagula	ation studies	
2) HEPARIN	B) Osmotic	fragility	
3) Sodium Citrate 1:4	C) Peripher	ral Smear	
4) Sodium Citrate 1:9	D) ESR est	imation	
	E) Coombs	s test	
B) 1) Amyloid	A) Vonkos	sa	
2) Lipid	B) Pearls		
3) Calcium	C) Sudan b	lack	
4) Iron	D) Congore	ed	
	E) Alcian b	lue	
			$(8\times^{1/2} = 4 \text{ Marks})$
Draw and label:			(1×2=2 Marks)

III.

- 1) Tuberculous granuloma
- 2) Oxalate crystals in urine.

IV. Short answer question.

 $(1\times4=4 \text{ Marks})$

- 1) What is Virchow triad?
- 2) What are Opsonins? Give one example.
- 3) Mention two difference between transudate and exudate.
- 4) What is dystrophic calcification? Give one example.

V. Write short notes on:

- 1) Sputum cytology
- 2) Mitochondrial inheritance
- 3) Acute transplant rejection reaction.

 $(3\times2=6 \text{ Marks})$

SECTION - B

- VI. 30 year old female c/o fever, joint pain for a duration of 3 weeks. O/E butter fly rashes present on her face. Investigation revealed haematuria and massive proteinuria.
- a) What is your diagnosis?
- b) Mention two serological test by which you can confirm the diagnosis.
- c) Mention two common cardiac lesions that can occur in the patient.
- d) Mention the characteristic microscopic finding seen in renal biopsy.
- e) Mention the usual hematological presentation in this condition.
- f) What is the usual cause of death in these patients?

(2+2+2+2+1+1=10)

VII. Short answer question.

- a) What is anaplasia?
- b) What is double hit theory or Knudson hypothesis?
- c) What is 'Pleiotropism'? Give a suitable example.
- d) What is granulation tissue?

 $(4\times1=4 \text{ Marks})$

VIII. Write short notes on:

- a) Trephine biopsy
- b) Apoptosis
- c) Oncogenic Viruses

 $(3\times2=6 \text{ Marks})$
