073/2017

Question Booklet Alpha Code

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Question Booklet Serial Number

Impila code	Seriai ivanibei	
Total Number of Questions : 1	00	Time: 75 Minutes
	Maximum Marks: 100	

INSTRUCTIONS TO CANDIDATES

- 1. The question paper will be given in the form of a Question Booklet. There will be four versions of question booklets with question booklet alpha code viz. **A**, **B**, **C** & **D**.
- 2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the question booklet.
- 3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
- 4. If you get a question booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
- 5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your question booklet is un-numbered, please get it replaced by new question booklet with same alpha code.
- 6. The question booklet will be sealed at the middle of the right margin. Candidate should not open the question booklet, until the indication is given to start answering.
- 7. Immediately after the commencement of the examination, the candidate should check that the question booklet supplied to him contains all the 100 questions in serial order. The question booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
- 8. A blank sheet of paper is attached to the question booklet. This may be used for rough work.
- 9. Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.
- 10. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.
- 11. Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.
- 12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
- 13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

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1.	Ribo	somes are the cen	tre fo	r :						
	(A)	Respiration				(B)	Photo	osynthesis		
	(C)	Protein synthesis	5			(D)	Fat s	ynthesis		
2.	An o	outer covering me	mbrar	ne is a	bsent	over :				
	(A)	Nucleolus	(B)	Lyso	some		(C)	Mitochondrion	(D)	Plastid
3.	Whic	ch one of the follo	wing	has it	s own	DNA	. ?			
	(A)	Peroxisome	(B)	Dicty	osomo	e	(C)	Lysosome	(D)	Mitochondria
4.	Tricu	ıspid valve is four	nd in 1	betwe	en :					
	(A)	Right auricle and	d righ	t vent	ricle	(B)	Vent	ricle and aorta		
	(C)	Left auricle and	left v	entric	le	(D)	Right	t ventricle and pu	ılmon	ary artery
5.	Arte	ries carry oxygena	ated b	lood (except	:				
	(A)	Hepatic	(B)	Card	liac		(C)	Pulmonary	(D)	Systemic
6.	Wall	of blood capillary	is fo	rmed	of:					
	(A)	Haemocytes	(B)	Parie	tal cel	ls	(C)	Endothelial cells	(D)	Oxyntic cells
7.	'Dup	' Sound is produc	ced di	ıring	the clo	sure (of:			
	(A)	Semilunar valves	S	(B)	SA no	ode	(C)	Bundle of His	(D)	Purkinje fibres
8.	In m	an ribs are attach	ed to	:						
	(A)	Clavicle		(B)	Ileum	ı	(C)	Sternum	(D)	Scapula
9.	The o	correct route thro	ugh w	hich :	pulse 1	makin	ıg imp	oulse travels in the	e hear	rt is :
	(A)	AV -node \rightarrow bun	dle of	His -	→ SA 1	node -	→ Pui	kinje fibres → he	art m	uscles
	(B)	AV -node $\rightarrow SA$	node -	→ Pui	rkinje i	fibres	→ bu	ndle of His \rightarrow he	art m	uscles
	(C)	SA node \rightarrow Purk	kinje f	ibres -	→ bun	dle of	His -	\rightarrow AV-node \rightarrow he	art m	uscles
	(D)	SA node \rightarrow AV-1	node -	→ buı	ndle of	His -	→ Puı	kinje fibres → he	art m	uscles

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10.	The	blood cancer is k	nown	as:					
	(A)	leukaemia	(B)	thrombosi	.S	(C)	haemolysis	(D)	haemophilia
11.	An a	ndult human with	aver	age health l	nas sv	stolic	and diastolic pro	essiire :	as:
11.	(A)	70 mm Hg and		_	(B)		mm Hg and 80 r		
	(C)	50 mm Hg and		Ü	(D)		mm Hg and 80 r		
	(C)	50 mm rig and	00 HII	n 11g	(D)	100	ililii 11g alid 00 1	11111 1 12	•
12.	The	lining of the inne	r wall	of the hear	t's cha	ambei	rs is formed :		
	(A)	Visceral pericar	dium		(B)	Sero	us pericardium		
	(C)	Epicardium			(D)	End	ocardium		
13.	The	exchange of gase	s and	nutrients be	etweei	n bloc	od and tissues is	a maio	r function of :
10.	(A)	Arterioles	(B)	Arteries		(C)	Capillaries	(D)	Veins
	(11)	riterioles	(D)	riteries		(0)	capmanes	(2)	Venis
14.	Bone	es are mainly mad	de up	of:					
	(A)	Calcium and Pl	nosph	orous	(B)	Calc	ium and Sulphu	ır	
	(C)	Calcium and M	agnes	ium	(D)	Calc	ium and Iron		
15.		cardiac pacemake maker is to be gr							rs find an artificial
	(A)	Atrioventricular	bund	dle	(B)	Purk	kinje system		
	(C)	Sinoatrial node			(D)	Atri	oventricular noc	le	
16.		standard ECG w espective activity				ng alp	habets is the co	rrect re	presentation of
	(A)	S- Start of systo	le		(B)	T- eı	nd of diastole		
	(C)	P- depolarizatio	n of t	he atria	(D)	R- D	Depolarization of	ventri	cles
17.	'Bun	dle of His' is a pa	art of	which one o	of the	follov	ving organs in h	umans	?
	(A)	Brain	(B)	Heart		(C)	Kidney	(D)	Pancreas
18.	Whi	ch chamber of hu	ıman			muse			
	(A)	Left ventricle	(B)	Left auricl	le	(C)	Right ventricle	(D)	Right auricle
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19.	The	number of floati	ing ribs	s in the hun	nan bo	dy is	:		
	(A)	6 pairs	(B)	5 pairs		(C)	3 pairs	(D)	2 pairs
20.	The	lower jaw in ma	nmals	s is made u	p of :				
	(A)	Mandible	(B)	Dentary		(C)	Maxlila	(D)	Angulars
21.	Tota	l number of bon	es in tl	he hind lim	b of m	an is	:		
	(A)	14	(B)	30		(C)	24	(D)	21
22.	The	joint found betv	veen st	ernum and	the ril	os in l	numans is :		
	(A)	Angular joint			(B)	Fibr	ous joint		
	(C)	Cartilaginous j	joint		(D)	Glid	ing joint		
23.	Whi	ch of the follow:	ing cra	nial nerves	can re	egulat	e heart beat ?		
	(A)	X	(B)	IX		(C)	VIII	(D)	VII
24.	Wha	at is intensity of	sound	in normal o	conver	sation	.?		
	(A)	10-20 decibel	(B)	30-60 dec	cibel	(C)	70-90 decibel	(D)	120-150 decibel
25.		ne resting state o		neural mem	brane,	diffus	sion due to conce	entratio	on gradients, if
	(A)	K ⁺ into the cell	1		(B)	K+&	: Na ⁺ out of the o	ell	
	(C)	Na ⁺ into the ce	ell		(D)	Na ⁺	out of the cell		
26.	The	most abundant	intrace	ellular cation	n is :				
	(A)	Ca ⁺⁺	(B)	H ⁺		(C)	K ⁺	(D)	Na ⁺
27.	Inter	rcostal muscles o	occur i	n :					
	(A)	Abdomen	(B)	Thigh		(C)	Diaphragm	(D)	Ribs
28.		ch one of the folgen ?	llowing	g organs in	the hu	man l	oody is most affe	cted d	ue to shortage of
	(A)	Intestine	(B)	Skin		(C)	Kidney	(D)	Brain
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{P.T.O.}

29.	Oxy	genatea blood fro	m Iur	ngs is carrie	a to ti	ne nea	rt by:		
	(A)	Pulmonary arte	ry		(B)	Puln	nonary vein		
	(C)	Coronary vein			(D)	Pre-c	cavals		
30.	The	disease that occur	rs wh	en the hemo	oglobi	n cont	ent of the blood	goes c	lown is
	(A)	Pleurisy	(B)	Emphyser	O	(C)	Anaemia	(D)	Pneumonia
31.	The	normal rate of res	spirat	ion in man	per m	inute i	is about :		
	(A)	10 to 15 times	(B)	16 to 20 ti	mes	(C)	19 to 21 times	(D)	23 to 25 times
32.	The	covering of the lu	ıng is	called :					
	(A)	Pericardium			(B)	Perio	chondrium		
	(C)	Pleural membra	ine		(D)	Perit	oneum		
33.	Oxy	gen carrying capa	ncity o	of blood is:					
	(A)	20%	(B)	30%	(C)	40%	(D)	50%	
34.	Puls	e pressure is :							
	(A)	Pressure in the g	great '	veins					
	(B)	Systolic pressure	e						
	(C)	Difference between	een sy	ystolic and	diasto	lic pre	ssure		
	(D)	Diastolic pressu	re						
35.	Hun	nan/mammalian/	/elepł	nant heart is	s :				
	(A)	Myogenic	(B)	Neurogen	ic	(C)	Cardiogenic	(D)	Digenic
36.	To re	each the left side	of hea	art the blood	d mus	t pass	through:		
	(A)	Sinus Venosus	(B)	Kidneys		(C)	Liver	(D)	Lungs
37.	Chai	racteristics of card	diac n	nuscles are	that th	ney:			
	(A)	Contract quickly	y and	get fatigue	d				
	(B)	Contract quickly	y and	do not get	fatigu	ıed			
	(C)	Contract slowly	and	get fatigued	l				
	(D)	Contract slowly	and o	do not get f	atigue	ed			

38.	The	pH of blood is:						
	(A)	Between 7-8	(B)	Between 2-4	(C)	Between 12-14	(D)	Between 2-5
39.	Puls	e can be detected	l from	the artery of:				
	(A)	Thigh	(B)	Diaphragm	(C)	Humerus	(D)	Wrist
40.	ECG	is a measure of	:					
	(A)	Rate of heart be	eat	(B)	Diff	erence in electric	poten	tial
	(C)	Volume of bloo	d pun	nped (D)	Ven	tricular Contracti	ion	
41.	Card	liac output is det	ermin	ed by :				
	(A)	Heart rate	(B)	Stroke volume	(C)	Blood flow	(D)	Both (A) and (B)
42.		rder for the blood t flow through :	d to flo	ow from right ver	ntricle	to left ventricle in	n man	nmalian heart, it
	(i)	Right ventricle						
	(ii)	Pulmonary veir	าร					
	(iii)	Left atrium						
	(iv)	Lungs						
	(v)	Pulmonary arte	eries					
	(A)	(i), (v), (iv), (ii),	(iii)	(B)	(i), (ii), (iii), (iv), (v)		
	(C)	(iii), (v), (i), (ii),	(iv)	(D)	(iii),	(ii), (i), (iv), (v)		
43.	Duri	ing systemic circ	ulatio	n, blood leaves th	ne (i)	and (:	ii)	
	(A)	(i) Left ventricle	e, (ii) <u>ş</u>	goes directly to th	e aort	a		
	(B)	(i) Right ventrio	cle, (ii)	goes directly to t	the ao	rta		
	(C)	(i) Right ventrio	de, (ii)	moves to the lun	ıgs			
	(D)	(i) Left ventricle	e, (ii) r	moves to the lung	S			
44.	On a	a normal ECG/E	KG, v	entricular depola	rizatio	on occurs during	the :	
	(A)	P wave	(B)	QRS complex	(C)	T wave	(D)	P-Q interval
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45 .	When aortic	pressure is	greater	than	the	ventricular	pressure	:
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- (A) The tricuspid atrioventricular valve opens
- (B) The bicuspid/mitral atrioventricular valve closes
- (C) The aortic semilunar valve closes
- (D) The pulmonary semilunar valve opens

46. Following a motor vehicle accident, a large loss of blood will initially cause :

- (A) A lowered BP due to a decreased cardiac output
- (B) A higher BP due to an increased stroke volume
- (C) No change in BP but a slower heart rate
- (D) No change in BP but an increased respiration rate

47. The heart is made up of which type of muscle:

- (A) Skeletal muscle (B) Smooth muscle (C) Cardiac muscle (D) Elastic muscle
- **48.** The most common type of defect of the cardiac septa is :
 - (A) Muscular ventricular septal defect
 - (B) Primum atrial septal defect
 - (C) Secundum atrial septal defect
 - (D) Membranous ventricular septal defect

49. Function of transducer is to convert :

- (A) Electrical signal into non electrical quantity
- (B) Non electrical quantity into electrical signal
- (C) Electrical signal into mechanical quantity
- (D) All of these

50. Strain gauge is a :

- (A) Active device and converts mechanical displacement into a change of resistance
- (B) Passive device and converts electrical displacement into a change of resistance
- (C) Passive device and converts mechanical displacement into a change of resistance
- (D) Active device and converts electrical displacement into a change of resistance

51.	The	linear variable di	fferen	tial transforr	ner t	ransdı	ıcer is :			
	(A) Inductive transducer				(B)	Non-inductive transducer				
	(C)	Capacitive trans	sducei	ľ	(D)	Resistive transducer				
52.	get p		n the	two wires d			, ,		then a voltage will n the two ends of	
	(A)	Thermistors	(B)	RTD		(C)	Ultrasonics	(D)	Thermocouples	
53.	Sour	nd is produced du	ie to :							
	(A)	Friction	(B)	Circulation	ı	(C)	Vibration	(D)	Refraction	
54.	Sour	nd waves are :								
	(A)	Longitudinal	(B)	Transverse		(C)	Electromagnetic	(D)	Only magnetic	
55.	A th	in, semi-transpare	ent, fle	exible memb	rane	is kno	own as :			
	(A)	Ear lobe	(B)	Ear canal		(C)	Ear drum	(D)	Pinna	
56.	Pinn	a is a shell-like st	ructuı	e which is a	part	of:				
	(A)	Inner ear	(B)	Outer ear		(C)	Middle ear	(D)	None of them	
57.	The	classic ECG chang	ges in	myocardial	infar	ction	(MI) are :			
	(A)	T- wave								
	(B)	ST- segment elev	vation	L						
	(C)	Development of	an al	onormal way	ve					
	(D)	All of the above								
58.	One	specific ECG cha	nge in	hypokalem	ia (lo	w pot	assium level) is :			
	(A)	U wave (a positi	ive de	flection after	r the	T wav	ve)			
	(B)	ST segment elev	ation							
	(C)	Tall peaked T w	aves							
	(D)	Increased ampli	tude a	nd widenin	g of t	the QI	RS complex.			

59.	Norı	mal QRS width is	:						
	(A)	0.12 to 0.20 seco	ond		(B)	0.42	to 0.43 second		
	(C)	0.08 to 0.12 seco	ond		(D)	0.04	to 0.10 second		
60.	Whe	en do coronary ar	teries	primarily re	eceive	blood	I flow?		
	(A)	During inspirat	ion		(B)	Duri	ng diastole		
	(C)	During expirati	on		(D)	Duri	ng systole		
61.	Whi	ch of the followir	ng is tl	he most con	nmon	symp	tom of myocardia	ıl infa	rction ?
	(A)	Chest pain	(B)	Dyspnea		(C)	Edema	(D)	Palpitations
62.		ch of the followir yocardial damag	•	gnostic tools	s is mo	ost co	mmonly used to o	letern	nine the location
	(A)	Cardiac cathete	rizati	on	(B)	Caro	liac enzymes		
	(C)	Echocardiogran	n		(D)	Elec	trocardiogram		
63.		is formed crode on the right Lead II			gative		code on the zero Lead III	point (D)	t and the positive
64.	In n	ormal ECG recor	ding t	he paper sr	peed is	s			
	(A)		O				50 mm/minute	(D)	25 mm/minute
65.	Leac	d III obtained by	conne	ecting		_ and			
	(A)	Right arm and	eft ar	m	(B)	Righ	t leg and left leg		
	(C)	Right arm and l	eft leg	5	(D)	Left	arm and left leg		
66.	Orga	an of corti is situa	ited in	ı:					
	(A)	Scala media			(B)	Scala	a tympanum		
	(C)	Scala vestibule			(D)	Sacc	ule		
67.	Posit	tive Rinnetest is s	een in	1:					
	(A)	Otosclerosis			(B)	CSC	PΜ		
	(C)	Wax impacted	ear		(D)	Pres	bycusis		

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68.	Otos	scierosis is associated with all excep	ot:	
	(A)	Conductive deafness	(B)	Common in males
	(C)	Mostly attests stapes	(D)	Run in families
69.	Cocł	nlear implant used in :		
	(A)	Sensory neural deafness	(B)	Conductive deafness
	(C)	Mixed	(D)	None
70.	Who	invented ECG?		
	(A)	Willem Einthoven	(B)	Ampere
	(C)	Darwin	(D)	Newton
71.	I.C.C	C.U. stands :		
	(A)	Critical Care Unit	(B)	Instrument Command and Control Unit
	(C)	Intensive Care Unit	(D)	Intensive Coronary Care Unit
72.	Tach	nycardia means		
	(A)	Heart rate above 100 beats per m	inute	
	(B)	Heart rate between 60 and 80 bea	ats pe	r minute
	(C)	Heart rate below 60 beats per min	nute	
	(D)	70-72 beats per minute		
73.	Lead	l V ₂ is placed over inte	ercosta	al space in the left sterna margin.
	(A)	5 th (B) 4 th		(C) 2 nd (D) 3 rd
74.	First	human heart transplant was perfo	ormed	by:
	(A)	Watson	(B)	Christian Barnad
	(C)	William Harvey	(D)	Einthoven
75.	The	artificial pacemaker consists of a p	ulse g	generator for containing :
	(A)	Lithium halide cell	(B)	Strontium cell
	(C)	SA node	(D)	Dry cell

76.	"ant	erior" means		
	(A)	Towards the back of the body	(B)	Towards the front of the body
	(C)	Nearer to head	(D)	Nearer to foot
77.	Vital	l capacity of lungs of an average h	uman	is:
	(A)	3000 - 4500 ml (B) 1500 - 1800	0 ml	(C) 2000 - 2500 ml (D) 500 - 1000 ml
78.	Sym	pathetic nervous system :		
	(A)	Decrease heart beat	(B)	Increases heart beat
	(C)	Not related to heart beat	(D)	Control heart beat
79.	In m	an regulation of respiration and he	eart be	eat is maintained by :
	(A)	Cerebrum	(B)	Medulla oblongata
	(C)	Cerebellum	(D)	Spinal cord
80.	Univ	versal blood recipient is :		
	(A)	Blood group O (B) Blood grou	ір АВ	(C) Blood group A (D) Blood group B
81.	Whi	ch amendment of Indian Constitut	ion re	duce the voting age from 21 to 18 ?
	(A)	42 nd amendment of 1989	(B)	70 th amendment of 1989
	(C)	61st amendment of 1989	(D)	71st amendment of 1989
82.	'Jana	a-gana-mana' is accepted as our na	ntional	anthem on :
	(A)	1950 Jan-24 (B) 1950 Jan-2	26	(C) 1949 Oct-29 (D) 1950 Jan-25
83.	The	first Chairperson of Kerala Vanitha	a Com	nmission:
	(A)	K.C. Rosakutty	(B)	Sugathakumari
	(C)	M. Kamalam	(D)	Justice K.K. Usha
84.	The	publisher of the Newspaper 'Al A	meen'	`:
	(A)	Vakkam Abdul Khader Moulavi	(B)	Moidu Moulavi
	(C)	Muhammed Abdul Rahman	(D)	Kandathil Varghees Mappila

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	(C)	(C) Balachandra Nomade				Tharasankar Bandopadyaya					
	(A)	(A) Amritha Preetham				Sumithranandan Panth					
93.	Who won the 'Njanapida' Award of 2014 ?										
	(C) Greater Himalayan National Park					(D)	Kasi	ranga wild l	ife sa	ınctua	ıry
	(A)	Kanjan Junga	1 D 1	(B) Rani Ki Vav							
92.		ch among the fol	lowin	g was	included ir			_	e in !	2016 f	rom India ?
0.5	* 					.9				2 04 4 3	
91.	U	ht to Information 2004		_	•		2005	5	(D)	2007	7
91.	'Dial	ht to Information	Δ ct'	nassor	in the year	, .					
	(A)	Odayil Ninnu	(B)	Aya	lkar	(C)	Ethi	rppu	(D)	Brar	ndhalayam
90.	Which book of Kesava Dev get Kendra Sahitya Accadami Award?										
	(C)	Captain Lakshmi			(D)	Arya Pallam					
	(A)	Akkamma Cheriyan			(B)	A.V. Kuttimalu Amma					
89.	Who is known as Jhansi Rani of Travancore?										
	` /				()						
	(C)	Jathi Nasini Sal			(D)			Maha Sabha			
- • •	(A) Sree Rama Krishnasramam					Sidhasramam					
88.	The	organisation forr	ned b	v Swa	mi Ananda	Thee	rtha fo	or his social 1	efori	ms :	
	(C)	A.K. Gopalan			(D)	T.K.	Mad	havan			
	(A)	Mannath Padn	(B)) K. Kelappan							
87.	The leader of Guruvayoor Satyagraha:										
	(C)	Udyana Viruni	าน		(D)	Aru	l Nool				
	(A)				(B)	,					
86.	The book written by Vaikunda Swamikal:										
	` '			` /			` '	J J		` /	
	(A)	Mahe	1	(B)	Thalasseri		(C)	Payyannoo	r	(D)	Vadakara
85.	'Rajya Samacharam' published from :										

94.	The organisation 'Vidyaposhini' was began by:										
	(A)	Pandit Karuppan	(B)	Ayyankali							
	(C)	Poykayil Yohannan	(D)	Sahodarar	n Ayyappan						
95.	The leader of 'Ezhava Memorial' :										
	(A)	Dr. Palppu (B) K. Sa	ankarameno	on (C)	Kumaranasan	(D) G.P. Pillai					
96.	The Constitutional Assembly firstly summoned in Constitution Hall, which is recently known as :										
	(A)	Constituent Assembly Hall	(B)	3) Assembly Hall of Loksabha							
	(C)	Central Hall of Parliament	(D)	Assembly	Hall of Rajyasal	pha					
97.	'Veena Poov' of Kumaranasan firstly published in :										
	(A)	Vivekodayam (B) Swa	raj	(C) Mala	yalee (D)	Mithavadhi					
98.	Who was inaugurated Kerala Sangeetha Nataka Akademi in 1958 ?										
	(A)	(A) Chithira Thirunal Balaramavarmma									
(B) Pattam Thanu Pillai											
	(C)										
	(D)	E.M.S. Namboodiripad									
99.	Who is regarded as 'Kerala Hemingway' ?										
	(A)	P. Kunchi Raman Nair	(B)	M.T. Vasudevan Nair							
	(C)	C.V. Raman Pillai	(D)	Thakazhi S	Sivasankara Pill	ai					
100.	Who is the 11 th President of India ?										
	(A)	A.P.J. Abdul Kalam	(B)	K.R. Narayanan							
	(C)	Pratibha Patil	ntibha Patil (D) Dr. Shankardayal Sharma								
			- o 0 c) -							

SPACE FOR ROUGH WORK

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