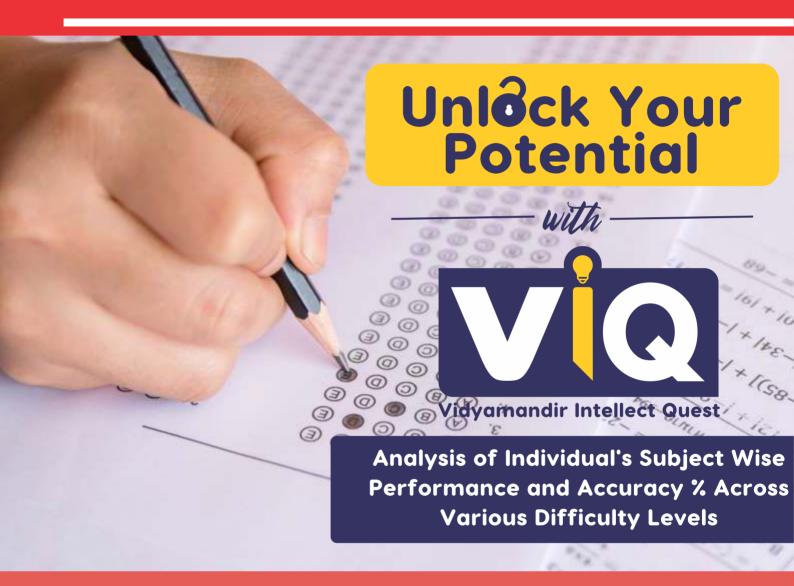


Lifeling of NEET Aspirants

SAMPLE PAPERS



FOR STUDENTS CURRENTLY IN CLASS

10th

2 Year Course NEET



Sample Paper

2 Year (Medical)

Duration: 2.5 Hrs Maximum Marks: 360

For Students Presently in Class 10th (Stream: Medical)

GENERAL INSTRUCTIONS:

- The paper contains 90 Objective Type Questions divided into four sections: Section I (Physics), Section II (Chemistry), Section III (Biology) and Section IV (Mental Ability).
- Section-I, II and III contain 25 Multiple Choice Questions each and Section-IV contains 15 Multiple Choice Questions. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE CHOICE is correct.

MARKING SCHEME:

• For each question in Section-I, II, III and IV, **4 marks** will be awarded for correct answer and **-1 negative marking** for incorrect answers.

SUGGESTIONS:

- Before starting the paper, spend 2-3 minutes to check whether all the pages are in order and report any issue to the invigilator immediately.
- Try to attempt the Sections in their respective order.
- as

•		t get stuck on a are 120 questic			or more tha	ın 1.5 - 2 mir	nutes. Move	on to a new o	question as
				SECTIO	N – I [PH	YSICS]			
1.		elocity of light d medium with			=	`light in seco	ond medium	, then refractiv	ve index of
	(A)	v_1/v_2	(B)	v_2/v_1	(C)	$\sqrt{v_1/v_2}$	(D)	$\sqrt{v_2/v_1}$	
2.		efractive index of glass with re			ith respect t	o air are 3/2	and 4/3 res	spectively. The	e refractive
	(A)	8/9	(B)	9/8	(C)	2	(D)	1/2	
3.	If μ_i	represents refra	ctive inc	lex when a l	ight ray goe	es from medi	um i to me	edium j, then t	he product
	$_{2}\mu_{1}\times$	$_{3}\mu_{2}^{\times}$ $_{4}\mu_{3}$ is equa	l to:	W L					
	(A)	$_3\mu_1$	(B)	$_3\mu$ $_2$	(C)	$\frac{1}{{}_1\mu_4}$	(D)	$_4\mu$ $_2$	
4.	What	is the basic reas	on for th	e shining of a	a diamond?				
<	(A)	Reflection			(B)	Refraction			
	(C)	Dispersion of	light		(D)	Total interr	nal reflectio	n	
5.	Total	internal reflection	on of a ra	ny of light is p	ossible whe	en the $(i_C = c_1)$	ritical angle	i = angle of in	icidence)
	(A)	Ray goes from	m denser	medium to ra	arer medium	and $i < i_C$			
	(B)	Ray goes from	n denser	medium to ra	arer medium	and $i > i_C$			
	(C)	Ray goes from	n rarer n	nedium to der	nser medium	and $i > i_C$			
	(D)	Ray goes from	n rarer n	nedium to der	nser medium	and $i < i_C$			
6.		vex lens of foc	al length			Č	h B are pla	ced in contact.	. The focal
	(A)	A + B	(B)	(A –B)	(C)	$\frac{AB}{(A+B)}$	(D)	$\frac{AB}{(B-A)}$	
7.	Near a	and far points of	f a humai	n eye are:					
	(A)	zero and 25 c	m		(B)	25 cm and	50 cm		
	(C)	50 cm and 10	00 cm		(D)	25 cm and	infinite		
8.	Which	n of the following	ng is used	l in optical fil	bres?				
	(A)	Total internal	reflection	on	(B)	Scattering			
	(C)	Diffraction			(D)	Refraction			

9.	A conv (A) (C)	half image is	not seen	nage of an object	(B)	of lens is covere full image of s half image of	same inte	•
10.			-	ut in contact with all length equal to $2f$		on concave lens	of the s	ame focal length (f), the
11.	, ,	a is the defect of distant objects objects at all of	S	lue to which a pe	, ,	ds difficulty in a near objects colours		
12.	Loss o	f the ability of e Presbyopia	eye to foc (B)	eus on near and fa Astigmatism	ar object (C)	s with advancin Hypermetropi		called: Myopia
13.	Astign (A) (C)	natism can be co Bifocal lenses Concave lense	1	by:	(B) (D)	Cylindrical ler		
14.15.	(A) (B) (C) (D)	The focal leng The distance of The eye is not	of the reticable to called	na form the eye lecrease the dista	lens is 2:	5 cm veen the eye len	s and the	e retina beyond a limit
	(A)	concave lens	(B)	convex lens	(C)	cylindrical len	s (D)	by surgical removal
16.17.	(A) (C)	e' is a phenome reflection of li total internal r a ray of light en	ight eflection		(B) (D)	refraction of li	-	
	(A)	Its wavelength Its frequency	n decreas	es.	(B)	Its wavelength		es. r frequency changes.
18.	virtual using?	on is looking at	es the im	age of his face i	his face,	or by holding the image is in	it close to	to his face. The image is What type of mirror is he
19.	(A) A len behave (A) (B) (C) (D)	e like: A converging A diverging le A converging	lens of focus	Convex mirror acced in contact ocal length 100 cm ocal length 50 cm al length 50 cm	with and	Concave mirro	` ′	None of these 0D, the combination will
20.	A confrom i	cave mirror pro	duces a r	eal image twice		•	-	e at a distance of 22.5 cm the image becomes three 40 cm

21. The angle between incident ray and reflected ray is 70°. What is the angle of incidence? 30° 55° 35° **(A) (B) (C) (D)** 22. The diameter of spherical mirror in which reflection takes place is called: radius of curvature centre of curvature **(A) (B)** linear aperture. **(C) (D)** focal length. 23. A person cannot see distinctly objects kept beyond 2 m. This defect can be corrected by using a lens of power: -0.5 D+0.2 D-0.2 D(A) +0.5 D**(B) (C)** (D) 24. A student sitting on the last bench can read the letters written on the blackboard but is not able to read the letters written in his text book. Which of the following statements is correct? **(A)** The near point of his eyes has receded away **(B)** The near point of his eyes has come closer to him The far point of his eyes has come closer to him **(C)** The far point of his eyes has receded away **(D)** 25. At noon the sun appears white as: light is least scattered **(A)** all the colours of the white light are scattered away **(B)** blue colour is scattered the most **(C) (D)** red colour is scattered the most **SECTION – II [CHEMISTRY]** 26. Which of the following represents a double displacement reaction? $2H_2 + O_2 \longrightarrow 2H_2O$ $2Mg + O_2 \longrightarrow 2MgO$ (A) **(B) (C)** $AgNO_3 + NaCl \longrightarrow AgCl \downarrow + NaNO_3$ (D) $H_2 + Cl_2 \longrightarrow 2HCl$ The reaction $H_2 + Cl_2 \longrightarrow 2HCl$ is a: 27. Combination reaction Decomposition reaction (A) **(B)** Double displacement reaction Displacement reaction **(C) (D)** 28. Which of the following is a redox reaction? $CaCO_3 \longrightarrow CaO + CO_2$ $H_2 + Cl_2 \longrightarrow 2HCl$ **(A) (B)** $CaO + 2HC1 \longrightarrow CaCl_2 + H_2O$ $NaOH + HCl \longrightarrow NaCl + H_2O$ **(C) (D)** 29. $Fe_2O_3 + 2Al \longrightarrow Al_2O_3 + 2Fe$. This reaction is an example of: **(A)** Combination reaction **(B)** Double displacement reaction Decomposition reaction Displacement reaction **(C) (D) 30.** When Iron nails are added to an aqueous solution of copper sulphate, a chemical change occurs. Which of the following is not true about this reaction? **(A)** Blue colour of the solution fades Iron nails become brownish in colour **(B) (C)** It is a displacement reaction **(D)** Iron nails dissolve completely 10 ml of a solution of NaOH is found to be completely neutralised by 8mL of a given solution of HCl. If 31.

required to neutralize it will be:

(B)

8 mL

4 mL

(A)

we take 20 mL of the same solution of NaOH, the amount HCl solution (the same solution as before)

12 mL

(D)

16 mL

(C)

32.	Acco	rding to Arrheni	us conce	pt, an acid gives:				
	(A)	H ⁺ in water	(B)	OH [—] in water	(C)	Both (A) & (B) (D)	OH [—] in acid medium
33.		ash is:	, ,		` _		, , ,	
	(A)	NaNO ₃	(B)	Na_2CO_3	(C)	NaOH	(D)	NaHCO ₃
34.	Whic	h of the followir	ıg is a ba	sic salt?				
	(A)	$SnCl_2$	(B)	NaCl	(C)	NH ₄ Cl	(D)	CH ₃ COONa
35.	Potas	h alum is a:						
	(A)	Simple salt	(B)	Complex salt	(C)	Acid salt	(D)	Double salt
36.	What	happens when c	opper ro	d is dipped in iro	n sulph	ate solution?		
	(A)	Copper displa	ices iron					
	(B)	Blue colour o	f copper	sulphate solution	is obta	ined		
	(C)	No reaction to	ikes plac	e				
	(D)	reaction is ex-	othermic					
37.	Whic	h of the following	g is not	true for Washing	Soda?			
	(A)						nown as	Solvay's process
	(B)			for fabrics such as				
	(C)			The same of the sa	ated fro	m ammonium ch	loride b	y treating it with lime
	(D)	Used for softe	100					
38.				ste and a bad smo				
	(A)	Corrosion	(B)	Displacement		Heating	(D)	Rancidity
39.						Č		ic. A student mixes these
	_	ibes the student'			ide suri	ace. which of the	ne iono	wing statement correctly
	(A)			cold due to releas	se of he	af		
	(B)			hot due to release				
	(C)			hot due to absorp				
	(D)			cold due to absor				
40.	` ′	balanced equati			1			
		$a \operatorname{Fe_2O_3} + b \operatorname{H}$		$e + d H_2O$				
	The v			the respectively:				
	(A)	1, 1, 2, 3	(B)	1, 1, 1, 1	(C)	1, 3, 2, 3	(D)	1, 2, 2, 3
41.		fy the element v	which is a	most reactive.			` '	
		$A_2O_3 + 2B \rightarrow$	B,O, +	2A				
		$3CSO_4 + 2B$	2 3					
			`	,				
		3DO + 2A -	_					
	(A)	A	(B)	В	(C)	D	(D)	None of these
42.				-		characterized by:		
	(A)	evolution of h			(B)	formation of sl		
	(C)	lowering in te	mperatu	re of mixture	(D)	change in colo	ur of the	e product

43.	Which	h one of the following is an endothermic	: reaction	?
	(A)	combustion of carbon	(B)	adding ammonium chloride to water
	(C)	reaction between NaOH and HCl	(D)	reaction between Ca(OH)2 and H2SO4
44.	One o	of the following does not happen during	a chemica	al reaction. This is:
	(A)	breaking of old chemical bonds and f	ormation	of new chemical bonds
	(B)	formation of new substance with diffe	erent prop	perties
	(C)	atoms of one element change into tho	se of ano	ther element to form new products
	(D)	a rearrangement of atoms takes place	to form r	new products.
45.		m chloride on reacting with ammoniun h of the following correctly represents the	-	e forms barium sulphate and ammonium chlorice freaction involved?
	(i)	Displacement reaction	(ii)	Precipitation reaction
	(iii)	Combination reaction	(iv)	Double displacement reaction
	(A)	(i) only (B) (ii) only	(C)	(iv) only (D) (ii) & (iv)
46.	In wh	ich of the following reaction 'Zn' under	go oxidat	tion?
	(A)	$Zn^{2^+} + 2e^- \rightarrow Zn$	(B)	$H_2 \rightarrow 2H^+ + 2e^-$
	(C)	$2H^+ + 2e \xrightarrow{-} H_2$	(D)	$Zn \rightarrow Zn^{2+} + 2e^{-}$
47.	In the	e reaction $PbO + C \rightarrow Pb + CO$		
	(A)	PbO is oxidized	(B)	C acts as an oxidizing agent
	(C)	C acts as a reducing agent.	(D)	This reaction does not represent redox reaction
48.	When	copper wire is put in a solution of AgN	IO_3 :	
	(A)	copper metal is displaced		
	(B)	the colourless solution turns blue		
	(C)	the copper metal is deposited on the s	ilver	
	(D)	all the above		
49.	Follo	wing reaction represents a redox reaction	n in this p	process $2Na + Cl_2 \rightarrow 2NaCl$:
	(A)	Na get oxidized	(B)	Cl ₂ get oxidized
	(C)	Cl ₂ is oxidizing agent	(D)	Both (A) and (C)
50.	Acco	rding to electronic concept:		
	(A)	Oxidation is gain of electron(s)		
	(B)	Electron donating species is called ox	idizing a	gent
	(C)	Reduction is gain of electron(s)		
	(D)	Electron accepting species is called re-	educing a	gent
		SECTION –	III [BIO	LOGY]
51.	Which	h of the following is a preferred source of	of energy	for living organism?
	(A)	Carbohydrate (B) protein	(C)	fat (D) Minerals
52.		are preferred for storage by animals beca	` ′	,
	(A)	It has high oxygen content and get ox		sily
	(B)	Require very less amount of oxygen f		-
	(C)	Require CO ₂ far its oxidation		
	(D)	It has low O_2 content and require amo	ount of O	2 far its oxidation.

53.	Find	the odd one with	n respect t	o autotrophic	nutrition:			
	(A)	require CO ₂ a						
	(B)		_	und as source				
	(C) (D)	H ₂ O can be u require sunlig		urce of electron ergy	n			
54.		h one of the foll	-	-		Tur va o a o a o a o	(D)	Plasmodium
	(A)	Dodder	(B)	Lotus	(C)	Trypanosoma	(D)	Piasmodium
55.		is correct regard		osynthesis? o Glucose in p	raganaa af	Counlight		
	(A) (B)					n with the help	of solar	energy.
	(C)		_	_		lex organic com		
	(D)	Both (A) and	(B)					
56.	In giv	en following re	action fin	d the source of	oxygen			
	•	$CO_2 + H_2O - \frac{CI}{S}$	hlorophyll Sun light	$C_6H_{12}O_6 + H_2$	$_{2}O+O_{2}\uparrow$			
	(A)	CO_2			(B)	H_2O		
	(C)	Both CO ₂ and	d H ₂ O		(D)	Chlarophyll		
57	Whic	h of the product	s of light	dependent reac	ction?			
	(A)	NADPH ₂ onl	у		(B)	$NADH_2 + AT$	P	
	(C)	$NADPH_2 + A$	ATP		(D)	ATP only		
58.	Find	the correct seque	ence of pr	rocess in light	reaction:			
	(A)	Absorption o	f sunlight	by chlorophyl	$1 \rightarrow Photo$	olysis of water –	→ Produ	ction of Assimilatory
		power.						
	(B)			-	_			tion of NADPH ₂ + ATI
	(C)			\rightarrow Production oycle \rightarrow Respir		tory power→ P	roducing	g of Glucose
59.	(D)	h reaction corre		•		during light ro	ation?	
39.	(A)	$H_2O \rightarrow H^+ +$		sents photorys	(B)	$2H_2O + 4H^+ +$)2
	(C)	$H_2O \rightarrow H_2 +$			(D)	$H_2O \rightarrow 2H^+ +$		~ 2
60.				in the mouth c	avity will	be affected if sa	livary a	mylase is lacking in the
	saliva	1?						
	(A)	Starch breaki	_	_				
	(B)		_	n into amino a	cids.			
	(C)	Absorption o			1 1	1		
	(D)			to fatty acids a	nd glycero	ol.		
61.		cell-thick vessels				~ 44		
	(A)	Arteries	(B)	Veins	(C)	Capillaries	(D)	Pulmonary artery
62.		h of the following						
	(A)	Pepsin	(B)	Rennin	(C)	Amylase	(D)	Lipase
63.		ongest part of th	_					
	(A)	Duodenum	(B)	Jejunum	(C)	Rectum	(D)	Colon

64.	The B	ile juice is rele	ased in sn	nall intestine fro	m gall b	ladder, which p	art of foo	d does it helps to	o digest?
	(A)	Sugars			(B)	Nucelic Acid	S		
	(D)	Vitamin C			(D)	Fats			
65.	Which	n of the followi	ing disord	ers is caused due	e to defic	ciency of vitami	n A?		
	(A)	Cataract			(B)	Scurvy			
	(C)	Night Blindr	ness		(D)	Color blindne	ess		
66.	Rhyth	mic contraction	n of which	n muscles assoc	iated wit	th ribs help in re	espiration	?	
	(A)	Muscles of I	Diaphragn	1	(B)	Inter Costal N	Muscles		
	(C)	Muscles of s	stomach		(D)	Both (A) and	(B)		
67.	In wh ATP?	_	loes the 3	carbon compou	nd pyruv	vic acid breaks	to form (Carbon-dioxide,	water and
	(A)	Endoplasmic	c reticulun	n	(B)	Golgi Body			
	(C)	Mitochondri	a		(D)	Lysosome			
68.	When	ATP is hydrol	ysed into	ADP and Pi in	presence	of water, how	much en	ergy is released?	1
	(A)	15.5kJ	(B)	30.5kJ	(C)	60.5kJ	(D)	90.5kJ	
69.	Why	CO ₂ is transpor	ted in diss	solved state in pl	lasma m	ore as compared	l to O ₂ di	ssolved in plasm	ıa?
	(A)	O ₂ has high	er molecu	lar we <mark>ight th</mark> an	CO_2				
	(B)	CO ₂ has mor	re affinity	for hemoglobin	than O ₂				
	(C)	CO ₂ is more	soluble in	b <mark>lood</mark> plasma tl	han O ₂				
	(D)	CO, being h	nigher in I	nspired air is dis	solved n	nore			
70.	Which	n animal among	g the follo	wing has more r	number o	of auricles than	adult Fro	g?	
	(A)	Fishes	(B)	Man	(C)	Crocodile	(D)	None	
71.	Which	n blood vessel t	transports	deoxygenated b	lood col	lected from bod	y into the	e right chamber of	of heart?
	(A)	Venacava			(B)	Pulmonary V	ein		
	(C)	Pulmonary A	Artery		(D)	Aorta			
72.	The va	alue of Systolic	c Pressure	in a healthy hur	nan Beir	ng is:			
	(A)	80mmHg	(B)	120mm Hg	(C)	80 Pascal	(D)	20 Pascal	
73.	Which	n of the followi	ing structu	re is not the par	t of hum	an excretory sy	stem?		
	(A)	Uriniferous t	tubule		(B)	Uterus			
	(C)	Ureter			(D)	Urethra			
74.	Which	n of the followi	ing structu	re is responsible	e for real	sorption of wat	ter?		
	(A)	Ureter			(B)	Tubular part	of nephro	on	
	(C)	Bowman's C	Capsule		(D)	Glomerulus			
75.		ich of the following the body?	lowing an	imals, blood go	oes only	once through	the heart	in one cycle o	f passage
	(A)	Rirds	(R)	Δmnhihians	(C)	Fishes	(D)	Mammals	

A weighs twice as much as B

C weighs half as much as D

B weighs four and half as much as D

SECTION – IV [MENTAL ABILITY]

Directions for Q. Nos. 76 to 78:

(i) (ii)

(iii)

Raju is a carpenter. He has five tools with which he works. They are A, B, C, D and E. Each of them has a different weight as given below:

(iv)	D wei	ighs half as mucl	n as E					
(v)	E wei	ghs less than A b	out more	e than C				
76.	Which	h of the followin	g is the	most light in weig	ght?			
	(A)	A	(B)	D	(C)	В	(D)	C
77.	Which	h of the followin	g is mos	st heavy in weigh	t?			
	(A)	A	(B)	В	(C)	C	(D)	D
78.	Which	h of the followin	g repres	ents the descendi	ng orde	r o <mark>f weig</mark> hts of	tools?	
	(A)	B, D, E, A, C	(B)	A, B, E, D, C	(C)	B, D, E, C,	A (D)	E, C, D, A, B
79.	Nisha	returned home t	hree day	ys earlier t <mark>han the</mark>	time sl	ne had told her	mother, h	er sister Joya reached five
	-	later than the date return?	y Nisha	a was <mark>supposed</mark> t	o returi	n. If Joya retu	rned on T	hursday on what day did
	(A)	Tuesday	(B)	Wednesday	(C)	Saturday	(D)	Friday
80.				ominations of on mination is equal.	-		-	and ten rupee notes. The at he has?
•	(A)	45	(B)	90	(C)	60	(D)	75
81.		boys took part i nit but be <mark>hind</mark> Mo		=	efore N	Aohit but behi	nd Gaura	v. Ashish finished before
	(A)	Raj	(B)	Gaurav	(C)	Mohit	(D)	Ashish
82.				Iadhu. Shabnam' Who among ther			Seema. N	isha's score is higher than
	(A)	Leela	(B)	Madhu	(C)	Shabnam	(D)	Seema
83.		s age is just dou then the age of		_	. Shyan	n is 3 years yo	ounger to	Ravi. If Mohan's age is 5
	(A)	5 years	(B)	7 years	(C)	8 years	(D)	6 years
84.		ing to a photogra Whose photogra	-		no bro	ther or sister l	out that m	an's father is my father's
	(A)	His nephews	(B)	His father's	(C)	His son's	(D)	His own
85.	Ram i		Deepak,	Sunita is sister o	f Rajesl	n, Deepak is th	e son of S	unita. How is Ram related
	(A)	Son	(B)	Brother	(C)	Nephew	(D)	Father
86.	Whiel	h of the followin	g diagra	ms indicates the	best rela	ntion between I	Mercury, Z	Zinc and Metal?
	(A)		(B)		(C)	$ \bigcirc \bigcirc \bigcirc $	(D)	
		Viduomos	dir Cl-	ssos I Gurukuli	for HTH	EE Q. NASAissi	Dropore	tion

- 87. A girl is facing south. She turns 60° in the clockwise direction and then turns 105° in the anticlockwise direction. In which direction is she now facing?
 - (A) South East
- **(B)** East
- (C) North East
- **(D)** South–West
- **88.** A watch reads 4 : 30. If the minute-hand points to East, in which direction does the hour-hand point?
 - (A) North East
- **(B)** South East
- **(C)**
- North West **(D)**
- North
- **89.** A man walked 3 metre towards north, turned west and walked 2 metre then turned north and walked 1 metre and finally turned east and walked 5 metre. How far is he from the starting point?
 - (A) 5 metre
- **(B)** 8 metre
- **(C)** 10 metre
- **(D)** 12 metre
- **90.** A friend of mine came to meet me every Sunday. The first time he came at 12 : 30; the next time at 1 : 20, then at 2 : 30, then at 4.00 when did he turn up the time after that?
 - **(A)** 4.30
- **(B)** 5.50
- **(C)** 5.30
- **(D)** 5.20

জ জ জ End of Sample Paper | 2 Year Medical ও ও ও

Answer Key | 2 Year (Medical) | Sample Paper

PHYSICS

1	2	3	4	5	6	7	8	9	10
А	В	С	D	В	D	D	Α	С	D
11	12	13	14	15	16	17	18	19	20
А	А	В	D	А	С	Α	С	Α	Α
21	22	23	24	25					
D	С	В	Α	Α					

CHEMISTRY

26	27	28	29	30	31	32	33	34	35
С	В	В	D	D	D	Α	В	D	D
36	37	38	39	40	41	42	43	44	45
С	В	D	В	С	С	В	В	В	D
46	47	48	49	50					
D	С	В	D	С					

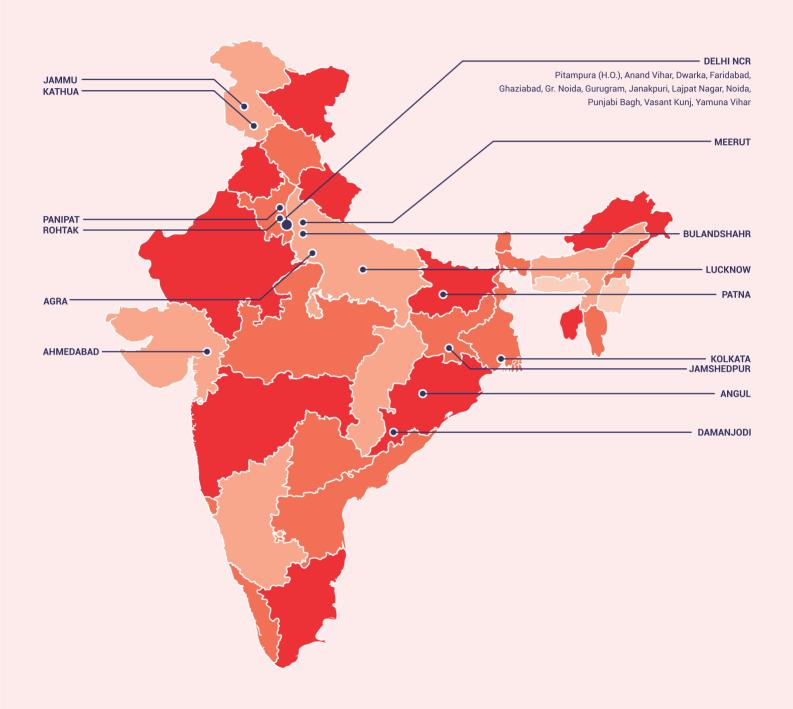
BIOLOGY

51	52	53	54	55	56	57	58	59	60
Α	D	В	Α	D	В	С	Α	В	Α
61	62	63	64	65	66	67	68	69	70
С	С	D	D	С	В	С	В	С	D
71	72	73	74	75					
А	В	В	В	С					

MENTAL ABILITY

76	77	78	79	80	81	82	83	84	85
D	Α	В	В	В	В	Α	В	D	Α
86	87	88	89	90					
В	А	А	А	В					

VMC CENTRES ACROSS INDIA



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