

# **Monthly Progessive Test**

Class: VIII

**Subject: PCMB** 



Time: 180 mins Full Marks: 200

#### Important Instructions:

- 1. The Test is of 180 mins duration and the Test Booklet contains 100 multiple choice questions of single correct option only. There are four sections with four subjects. You have to attempt all 100 questions (Candidates are advised to read all 100 questions). Questions 1 to 25 contain Physics, Questions 26 to 50 contain Chemistry, Questions 51 to 75 contain Mathematics, Questions 76 to 100 contain Biology.
- 2. Each question carries 2 marks. For each correct response, the candidate will get 2 marks. There is no negative mark for wrong response. The maximum mark is 200.
- 3. Use Blue / Black Ball point Pen only for writing particulars marking responses on Answer Sheet.
- 4. Rough work is to be done in the space provided for this purpose in the Test Booklet only.
- 5. On completion of the test, the candidate must handover the Answer Sheet to the invigilator before leaving the Room / Hall. The candidates are allowed to take away this Test Booklet with them.
- 6. The CODE for this Booklet is Off Line MPT0210052024.
- 7. The candidates should ensure that the Answer Sheet is not folded. Do not make any stray marks on the Answer Sheet. Do not write your UID No. anywhere else except in the specified space. Use of white fluid for correction is NOT permissible on the Answer Sheet. **Do not scrible or write on or beyond discrete bars of OMR sheet at both sides**.
- 8. Each candidate must show on-demand his/her Registration document to the Invigilator.
- 9. No candidate, without special permission of the Centre Superintendent or Invigilator, would leave his/her seat.
- 10. Use of Electronic Calculator/Cellphone is prohibited.
- 11. The candidates are governed by all Rules and Regulations of the examination with regard to their conduct in the Examination Hall. All cases of unfair means will be dealt with as per Rules and Regulations of this examination.
- 12. No part of the Test Booklet and Answer Sheet shall be detached under any circumstances.
- 13. There is no scope for altering response mark in Answer Sheet.

### **Space For Rough Works**



## **Physics**

1.	Friction is a  © Contact force © Both of these		<ul><li>B</li><li>D</li></ul>	Non-contact forc	e	
2.	Friction depends or  Tension force  Gravitational force		<ul><li>B</li><li>D</li></ul>	Muscular force Normal force		
3.	A force tries to move the body?  Static friction	re a body but the body  Sliding friction				iction force acts on Kinetic friction
4.	Arrange the friction  (A) Sliding friction, r  (B) Rolling friction, s  (C) Sliding firction, s	forces in decreasing of colling friction, static friction, sliding fatatic friction, rolling fating friction, rolling fr	orde ricti ricti ricti	er of magnitude. on ion on		
5.	Which one among to $\mu_{\rm static} > \mu_{\rm sliding}$	hese statement is true $\mu_{\rm static} < \mu_{\rm sliding}$		$\mu_{\mathrm{static}} = \mu_{\mathrm{sliding}}$	<b>(D)</b>	None of these
6.	Limiting friction is a	a form of  B Static friction	©	Rolling friction	<b>(D)</b>	None of these
7.	A 2 N force is given t body?	to the body but the boo	dy d	oes not move. Whi	ch fo	orce is acting on the
	A Normal force	B Tension force	©	Friction force	<b>(D)</b>	Gravity
8.	the the wall	onsible for a nail stayi	_			
	A Muscular	Friction	©	Gravitation	<b>(D)</b>	Magnetic
9.	The force helps us to  Muscular	o hold an object is  B Friction	©	Gravitation	<b>(D)</b>	Magnetic
10.	The disadvantage of Wearing out of so     Both   and   are	oles of shoes	B D	Wearing out of m None of these	ach:	ine parts
11.	Can friction be incre	eased or reduced?				
	A Yes	B No	©	Maybe	<b>(D)</b>	None of these

12.	What reduces friction  (a) Lubricant (b) Both (a) and (b) are			Oil None of these		
13.	What increases the f	riction? ® Lubricant	©	Oil	<b>(D)</b>	None of these
14.	If an object is presse  Output  Description:  Description:	d against the wall,the ard	lacksquare	tion force acts in w Vertically upward None of these		ch direction?
<b>15</b> .	Applying powder on  Applying powder on Increases friction © Keeps friction und		_	Decreases friction None of these	ı	
16.		plied on a body. If the on. (Mass of the body eration	is 5		ly fo	eels is 5 N then find
<b>1</b> 7.	A body of mass 1 kg	is resting on a table. W 1 dyne		t is the value of the 1 kgf	no (D)	
18.	What weight does a factor was a factor of the weight © Greater than its was a factor of the weight o	Freely falling body feel reight	$^{f B}$	Lesser than its we Zero weight	igh	ıt
19.	An apple is falling from Mascular	om a tree.The force ac Gravitational	_	ghere is Electrostatics	<b>(D)</b>	Magnetic force
20.	What type of force is  A Friction force  C Gravitational force	involved in kicking a e	_	? Electrostatic force Muscular force	)	
21.	Nature of static fricti  Self-adjusting  Sometimes non-a		<ul><li>B</li><li>D</li></ul>	Non-adjusting None of these		
22.	The force of limiting  (a) Increased with co.  (b) Independent of a		_	Decreased with co		

23.	If the body is in mo	tion,	the friction	on oppos	ing	it's motion is calle	d			
	A Kinetic friction				lacksquare	Sliding friction				
	© Internal friction				<b>(D)</b>	Both (and (B) are	e co	rrect		
24.	The frictional force	arise	es when a	body rol	ls o	ver the surface of a	not	her body is called		
	Static friction	lacksquare	Sliding f	riction	©	Rolling friction	<b>(</b>	Kinetic friction		
25.	Direction of kinetic	frict	ion is							
	Always in the dir	rectio	on of mot	ion	lacksquare	Always against th	e di	rection of motion		
	© Sometimes in th	e dir	ection of	motion	<b>(D)</b>	None of these me	edia			
•				Chemi	str	<b>'y</b>		•		
26.	Choose the inflama	ıble s	substance	9						
	A Petrol	B	LPG		©	Alcohol	<b>(D)</b>	All of them		
27	Fire may be extingu	iishe	d by							
21.	A Removing all the		·	cubetano	o fr	om the site of fire				
	_				епс	on the site of the				
	Cutting of the su		111			5				
	<ul><li>© Bringing down to</li><li>© All of them</li></ul>	ne ig	intion tei	iiperatui	е					
				VO.		G				
28.	Good fuels have				M	DIA				
	A Low ignition ten	•		Ü						
	B Low ignition ten	npera	ature and	low calo	rific	value				
	© High ignition ter	-		· ·						
	High ignition ter	nper	ature and	d low cal	orifi	c value				
29.	The hottest zone of	a cai	ndle flam	e is						
	Non-luminous z	one			lacksquare	Luminous zone				
	© Dark zone				<b>(D)</b>	Blue zone at the b	oase	of the wick		
30.	Incomplete combu	stior	of fossil	fuel rele	ases	a gas 'X'. The gas	is p	oisonous in nature		
	and it burns with a	blue	flame. W	hich gas	is 'X	??				
	Ozone	lacksquare	Chlorine	•	©	Carbon dioxide	<b>(D)</b>	Carbon monoxide		
31.	is yellow in	colc	our and is	moderat	tely	hot				
	A Middle zone	lacksquare	Outermo	ost zone	©	Innermost zone	<b>(D)</b>	None of these		

32.	. ASSERTION – REASON type question					
	<b>Assertion :</b> LPG is a	solid fuel				
	<b>Reason :</b> The amount its calorific	• • • • • • • • • • • • • • • • • • • •	sed by the combustio	n of one kg fuel is called		
	Both assertion and reason are the correct statements and reason is the correct explanation of assertion					
	Both assertion are explanation of ass		rect statements but re	eason is not the correct		
	© Assertion is corre	ct but reason is wron	g			
	Assertion is wron	g but reason is correc	et			
33.	A combustible substatemperature	ance cannot catch fire	e if its temperature is _	than its ignition		
	A Higher	B Moderate	© Lower	None of these		
34.	What is the reason b	ehind the black colou	ur of the smoke?			
	(A) Unburnt carbon p	particles	Rapid combustic	on		
	© High temperature		None of these is a	correct		
35.	The calorific value of will produce the mos		000 kj/kg and 30000 kj	/kg respectively. Which		
	<b>(A)</b> 500 gms of coal	<b>B</b> 1 kg of coal	© 500 gms of wood	② 2 kg of wood		
36.	The condition neces	sary for combustion i	is			
	Presence of comb	oustible substances				
	Presence of support	orters of combustion				
	© Attainment of ign	ition temperature of	the combustable subs	stance		
	All of the points a	re correct				
37.	Which of the following	ng is a non-combusta	able substance ?			
	A Paper	B Sand	© Charcoal	Petrol		
38.	Why goldsmiths blow	w the outermost zone	e of a flame to melt gol	ld and silver ?		
	(A) because it is the le	east hot zone				
	<b>®</b> because it has the	e unburnt wax vapoui	rs			
	© because it suppor	ts partial combustion	n			
	(D) because it suppor	ts complete combus	tion			

39.	The hottest part of the land o	ne candle flame is	<ul><li>B</li><li>D</li></ul>	Middle zone All zones have sa	me]	hotness
40.		nd diesel are <b>®</b> Liquid fuels	©	Gaseous fuels		Semi liquid fuels
41.	Petroleum Conse	oal Reservation Assoc ervation Research Associat	ocia			
42.	<ul><li> Wood - Peat - Lig</li><li> Wood - Peat - Bit</li><li> Wood - Bituminu</li></ul>	for formation of coal gnite - Bituminus coal uminus coal - Lignite as coal - Peat - Lignite gnite - Anthracite coal	- Ar - Ar	nthracite coal nthracite coal		
43.	Producer gas is  (a) [Carbon monoxide] (b) [Carbon monoxide]	171	<ul><li>B</li><li>D</li></ul>	[Carbon monoxio		•
44.	Lowest form of carb  (A) Peat	on is present in  B Lignite	©	Bituminius coal	<b>(D)</b>	Anthracite coal
45.	Which is used as a few Diesel	uel in wick stoves ? B Petrol	©	Kerosene	<b>(D)</b>	Lubricating oil
46.	Which zone is absert (a) Red zone (b) Luminous zone	nt in a candle flame?	<ul><li>B</li><li>D</li></ul>	Dark zone Non luminous zo	ne	
47.	The highest calorific    Coke	value of the fuel is	©	Petrol	<b>(D)</b>	Hydrogen
48.	Fuel must be heated  Conversion temper  Inversion temper		t sta B D	arts burning Ignition tempera Combustion tem		
49.	Which gas is used to  Oxygen	extinguish fire?  B Carbon dioxide	©	Nitrogen	<b>(D)</b>	Hydrogen

<b>50.</b> Which are produced at the outermost zone of a candle flame?							
	Carbon and water	pour	lacksquare	Carbon dioxide an	nd o	carbon	
	© Carbon dioxide a	and v	vater vapour	<b>(D)</b>	Carbon monoxide	e an	d water vapour
•—			Mathe	ma	atics		
<b>E</b> 1	Mhigh of the follows	ing i					
51.	Which of the follow.  (A) 1156	_	4657		4624	<b>(</b>	7056
52.	Which of the follow	ing is	s a pythogorean tr	iple	t?		
	<b>(A)</b> 2,3,4	lacksquare	6,8,10	©	5,7,9	<b>(D)</b>	None of these
53.	What will be the nu	mbe	r of zeros in squar	e of	400?		
	<b>A</b> 2	lacksquare	3	©	4	<b>(D)</b>	6
54.	What is the sum of f	first f	our odd natural n	uml	oers?		
	<b>A</b> 16	B	17	©	18	<b>(D)</b>	20
55.	What is the smalles perfect cube	st nu	mber by which 6	75 ı	may be divided so	tha	at the quotient is a
	<b>A</b> 25	B	15	©	45	<b>(</b>	35
56.	Find the volume of	a cul	oe, one face of whi	ch l	has an area of 25 cı	$m^2$ .	
	$\triangle$ 145 cm <sup>3</sup>		135 cm <sup>3</sup>		$125\mathrm{cm}^3$		$145  \mathrm{cm}^3$
57.	What is <sup>3</sup> √389017						
	<b>A</b> 75	lacksquare	79	©	73	<b>(D)</b>	77
58.	A perfect square nu	mbe	r between 30 and	40 i	S		
	<b>A</b> 36	lacksquare	33	©	32	<b>(D)</b>	39
59.	How many natural i	num	bers lie between 9	<sup>2</sup> ar	nd 10 <sup>2</sup> ?		
	<b>A</b> 17	lacksquare	18	©	19	<b>(D)</b>	20
60.	If square of 11 is 121	1 the	n, what is the squa	are (	of 111?		
	<b>(A)</b> 121	lacksquare	12321	©	1234321	<b>(D)</b>	123321
61.	The value of $9^2 - 1$ is	s equ	al to:				
	<b>A</b> 79	B	80	©	81	<b>(D)</b>	None of these

62.	Which symbol repre	esents cube root of x? <b>B</b> $x^3$	©	<u></u> 3√x	(D)	$\sqrt{x}$
63.	Which of the follows  216	ing is not a perfect cub 1000	_	243	<b>(D)</b>	1331
64.	What is square and ② 2744, 196	cube of 14? <b>®</b> 196, 2744	©	196, 2748	<b>(D)</b>	2744, 195
65.	Which number shows A	uld be multiplied to 39	02 to	-	be?	2
66.	$\left(\frac{-7}{13} + \frac{19}{26}\right) = ?$					
	$\triangle \frac{7}{26}$	(B) $\frac{5}{26}$	©	$\frac{3}{26}$	D	$\frac{5}{13}$
67.	What should be add	12		51		_51
00		(B) $\frac{-53}{84}$	©	$\frac{51}{84}$	D	<u>-51</u> 84
	The additive inverse $ riangle  frac{25}{26}$	<b>®</b> 1	©	0	<b>(D)</b>	$\frac{23}{26}$
69.	The value of $\left(\frac{-3}{5}\right)^{-2}$ $\bigcirc$	is	©	9 25	<b>(D)</b>	$\frac{-9}{25}$
70.	3430000 in standard	l form is				
	(A) $3.43 \times 10^6$	<b>B</b> $34.3 \times 10^5$	©	$343 \times 10^4$	<b>(D)</b>	$3430 \times 10^3$
71.	The square of which (A) 431	of the following woul 8 272	_	e odd number? 1234	D	7928
72.	_	st three digit perfect sq	_			
	<b>A</b> 999	<b>®</b> 961		962		971
73.	Which smallest nun  ② 2	nber should be added	to 8		pe:	
7/1	The value of $\sqrt[3]{343} \times 10^{-10}$		٧	1	9	T
14.		_		10	6	
	<b>▲</b> −18	<b>B</b> −28	(C)	-16	<b>(D)</b>	-14

		3	343×125
<i>1</i> 5.	Evaluate	Ĭ	0.064

**A** 87.5

**B** 807.5

© 8.75

**②** .875

### **Biology**

<b>76.</b> W	hich of the	following is	the primary	purpose	of irrigation	in agriculture?
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Controlling pests

B Providing water to crops

© Harvesting crops

Adding nutrients to soil

**77.** Fertilizer is a —

A Natural substance

Man-made inorganic salt

© Man-made organic salt

Plant residues

**78.** What is the primary source of organic manure?

Synthetic chemical

Animal residues

© Plant residues

Plant & animal residues

**79.** Winnowing is —

A Separation of grains from seeds

B Separation of grains from pests

© Separation of grains from chaff

Separation of grains from gravel

**80.** *Rhizobium* may be found in —

A Cereal plants

B Oil plants

© Leguminous plants

Fibre plants

**81.** Overuse of chemical fertilizer may lead to —

A Decrease in soil fertility

B Increase in the soil fertility

© Increase in the crop yield

© Enhancement of biodiversity

**82.** Which type of fertiliser provides all the three types of major nutrients (nitrogen, phosphorus & potassium) to plants?

A Urea

B Single super phosphate

© Potassium nitrate

NPK fertilizer

**83.** Which agricultural practice involves growing different crops in a specific succession in the same field?

Monoculture

B Polyculture

© Crop rotation

① Intercropping

84.	Which of the folloagriculture?	wing is an advantag	ge c	of using modern	irrig	gation	methods	in
	Increased soil con	nservation	B	Higher surface ru	n of	ff		
	© Improved water of	conservation		Reduced crop yie				
85.	What is the primary	purpose of using ferti	lize	rs in agriculture?				
	Weed control			Pest control				
	© Increasing soil fe	rtility	<b>(</b>	Enhancing water	abs	orptio	n	
86.	What is the term use	ed for the removal of u	nw	anted plants from	the	field?		
	A Harvesting	B Threshing		Weeding	_	Ploug	hing	
87.	What is the primary	source of water for tra	diti	ional canal irrigatio	on?			
	A Rainwater		B	Underground wel	lls			
	© Rivers or reservo	irs	<b>(D)</b>	Groundwater				
88.	Which nutrient is co	ommonly found in org	ani	c manure and aids	in p	olant g	rowth?	
	A Nitrogen	B Phosphorus	©	Potassium	<b>(D)</b>	Calci	um	
89.	Which equipment o	r tool is commonly us	ed i	n the process of wi	inno	owing?	•	
	A Plough	TII \	B	Harrow				
	© Sieve		<b>(D)</b>	Fan				
90.	Which irrigation m manner?	ethod delivers water	dir	ectly to the plant	ro	ots in	a control	led
	A Flood irrigation		lacksquare	Sprinkler irrigation	n			
	© Drip irrigation		<b>(D)</b>	Subsurface irrigat	tion			
91.	The process of rearing	ng animals for comme	ercia	al purposes is calle	d —	-		
	A Levelling		lacksquare	Harvesting				
	© Animal husband	ry	<b>(D)</b>	Poultry				
92.	Clover is a —							
	A Cash crop	B Fodder crop	©	Food crop	<b>(D)</b>	Orna	mental cro	op
93.	Which of the followi	ing is not an ornament	tal p	olant?				
	Orchid	B Rose	©	Marigold	<b>(D)</b>	Hemp	p	
94.	Jute is a —							
	A Cash crop	B Food crop	©	Ornamental crop	<b>(D)</b>	Fodd	er crop	

95.	Short duration sumi	mei	crops are called —	_			
	Section Food Crop	lacksquare	Fodder crop	©	Zaid crop	<b>(D)</b>	Kharif crop
96.	Mulching is a metho	od a	dopted for —				
	Weed control	B	Irrigation	©	Harvesting	<b>(D)</b>	Winnowing
97.	Granaries are used t	o st	core —				
	Seeds before sow	ing		lacksquare	Harvested crops		
	© Fruits			<b>(D)</b>	Fertilisers		
98.	Using animals to tra	mp	le over crops used	to b	e a traditional me	tho	d of —
	A Harvesting	lacksquare	Winnowing	©	Threshing	<b>(D)</b>	Weeding
99.	Furrow irrigation is	a ty	pe of —				
	Surface irrigation	ı		lacksquare	Sprinkler irrigation	n	
	© Basin irrigation			<b>(D)</b>	Drip irrigation		
LOO.	Select the disadvan	ıtag	e of using manure	_			
	(A) Emits a foul odou	ır		lacksquare	Releases nutrient	s slo	owly
	© Is bulky and requ	iires	s careful handling	<b>(D)</b>	All of the above		
	7	TC	TO INDIA	C	500		

### **Space For Rough Works**



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