

Monthly Progessive Test

Class: VIII

Subject: PCMB



Test Booklet No.: MPT01 Test Date: 2 2 0 4 2 0 2 4

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 MPT0122042024.
- 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.	A ball is sinking in a ② 1	pond. How many force 8 2	ces :	•	•	ct viscous force) None of these	
	6 1	b 2	•	3	•	None of these	
2.	A rock is freely fallin	g from a height. What	are	the forces acting o	on tl	he rock?	
	A Gravity	Air resistance	©	Both of these	(D)	None of these	
3.	A cart is rolling dow	nhill. What are the for	ces	acting on it?			
	A Gravity	B Friction	©	Normal force	(D)	All of these	
4.	A shelf hangs from a acting on the book?	a rope from the ceiling	g. A	book rests on the	she	lf. Which forces are	
	A Gravity and tensi	on	B	Gravity and tension	on a	and normal force	
	© Gravity and norm	nal force	D	None of these			
5.	_	plied on a body. If the ion. (Mass of the body			ly fe	eels is 5 N then find	
	$\triangle 1 \text{ m/s}^2$	1		$0.2 \mathrm{m/s^2}$			
	© There is no accele	eration	(D)	2 m/s^2			
6.	A body of mass 1 kg	is resting on a table. V	Vha	t is the value of the	no	rmal force?	
	(A) 1 N	B 1 dyne	©	1 kgf	(D)	None of these	
7.	What weight does a	freely falling body fee	1?	DIAG			
	A Its own weight	~ 1	$^{f B}$	B Lesser than its weight			
	© Greater than its v	veight	(D)	Zero weight			
8.	An apple is falling fr	om a tree.The force ac	cting	g here is			
	A Mascular	Gravitational	©	Electrostatics	(Magnetic force	
9.	What does a North p	oole of a magnet do to	the	North pole of ano	thei	r magnet?	
	Attract	B Repel	©	Does nothing	(D)	None of these	
10.	What type of force is	s involved in kicking a	bal	l?			
	A Friction force		B	Electrostatic force	е		
	© Gravitational ford	ce	(D)	Muscular force			
11.	The number of force	es are acting on a man	go l	nanging from a tree	e is/	are	

12.	A cat is sleeping on a	a table. The number of	f for	ces acting on cat is	S		
	(A) 1	B 2	©	3	(D)	4	
13.	A river flows down f	rom the mountain int	o pl	ane. The type of fo	rce	acting here is	
	A Masculine force		$^{f B}$	Magnetic force			
	© Gravitational force	ce	(D)	Electrostatic force	е		
14.	When two bodies re	pel each other, the typ	oe o	f force/forces can l	oe re	esponsible for it is	
	Electrostatic force	e	$^{f B}$	Magnetic force			
	© Both (4) and (8)		(D)	None of these			
1 5.	A man pushing a box towards East. In which direction should a lady push the keep the box at rest.						
	Towards East	B Towards South	©	Towards North	(D)	Towards West	
1 6.	The value of reaction	n force if action force o	on a	fixed body is 10N			
	(A) 12N	B 10N	©	8N	(D)	15N	
17 .	The direction of read	ction of normal force i	S				
	▲ 30° to normal for	ce					
	B 60° to normal for	ce		75			
	© 45° to normal for	ce					
	Along the line of a	action of normal force	bu	t in opposite sense	9		
18.	The total number of	types of inertia is	1				
	(A) 1	B 2	©	3	(D)	4	
19.	Does the directional its motion?	l inertia is related to r	esis	tance of a body to	cha	inge its direction of	
	A Yes	® No	©	Sometimes yes	(D)	Data insufficient	
20.	If a spring is pulled at the free end of spring which is fixed to a wall on the other end, then spring is						
	Compressed		lacksquare	Extended			
	© Sometimes exten	ded	(D)	No change in the	leng	gth of spring	
21.		I starts acting on a bod Kg. If mass of the body	•				
	$\triangle 2 \text{ m/s}^2$	B $1.5 \mathrm{m/s^2}$	©	1 m/s^2	(2.5 m/s^2	

22.	If weight of a body is	s 19.6 N, then the mass	s of	the body (in kg) is		
	A 2	B 1.5	©	1	(D)	3
23.	If mass of body is 2k	kg, then mass of the sai	me	body on Moon is (in k	g)
	A 2.5	B 1	©	1.5	(D)	2
24.	A force of 10N is act	ing on a body for 2s, th	he v	alue of impulse is	(in l	Ns)
	(A) 10	B 20	©	25	(15N
25.	A force of 5N acting m/s)	on a body for 3s, then v	valu	ıe of change in line	ar n	nomentum is (in Kg
	(A) 10	B 12	©	15	(D)	16
_		Chemis	cti			_
		Glielliis	3 61	У		•
26.	When coal is heated	l in air, it burns and pr	odu	ices		
	A Oxygen gas		B	Carbon dioxide g	as	
	© Nitrogen gas		(D)	All of these		
27 .	The world's first oil	well drilled in				
	A Pennsylvania	Washington	©	New Zealand	(D)	India
28.	The other name of p	etroleum is		CR-		
	A Coal	® Tar	©	Grease	(D)	Black gold
29.	Coke is used for ma	nufacturing of				
	A Lead	Alluminium	©	Steel	(D)	Copper
30.	Which is an almost	pure form of carbon?				
	(A) Coke	B Coal tar	©	Coal gas	(D)	None of these
31.	Heavy motor vehicle	es and tractors run on				
	A Petrol	B Diesel	©	Kerosene	(D)	Coal
32.	The petroleum prod	luct used in place of co	oal-	tar for metalling th	e ro	oad
	A Coke	B Coal gas	©	Tar	(D)	Bitumen
33.	Renewable source(s	s) of energy is / are				
	Sunlight	Air	(C)	Coal	(D)	Both (A) and (B)

34.	The example of non-	-ren	ewable source of e	ene	rgy is		
	Water	lacksquare	Air	©	Coal	(D)	All
35.	The carbon contain	in tl	ne anthracite coal	is			
	A 50%	B	71%	©	80 - 85%	(D)	94 - 98%
36.	The gas obtained wh	nen	coal is heated in al	ose	nce of air is called		
	♠ LPG	B	CNG	©	Coal gas	(D)	None of these
37.	Petrol and diesel car	n be	obtained from				
	A Coal tar	B	Coal	©	Petroleum	(D)	Coal gas
38.	A black rocky substa	ance	mainly used as a	fuel	is		
	A Coal tar	lacksquare	Coal	©	Wood	(D)	None of these
39.	Which is used in the	erma	al power plants an	d pı	coduce electricity?		
	A Petroleum	B	Natural gas	©	Coal	(None of these
40.	Charcoal burns in a	ir to	give				
	Carbon dioxide	₿	Heat	©	Both (and (B)	(D)	None of these
41.	The slow process of	con	version of dead ve	geta	ations into coal is c	alle	ed
	A Carbon dating	B	Coalization	©	Carbonization	(D)	None of these
42.	PCRA stands for	•	VOINDIA	C			
	A Petroleum and C	oal	Reservation Assoc	iati	on		
	Petroleum Conse	erva	tion Research Asso	ocia	tion		
	© Petroleum and C	oal	Research Associati	ion			
	None of these						
43.	The stepwise stages	for	formation of coal				
	🕭 Wood - Peat - Lig	gnite	e - Bituminus coal	- Ar	nthracite coal		
	® Wood - Peat - Bit	umi	nus coal - Lignite	- Ar	nthracite coal		
	© Wood - Bituminu	is co	oal - Peat - Lignite	- Ar	nthracite coal		
	• Wood - Peat - Lig	gnite	e - Anthracite coal	- Bi	tuminus coal		
44.	The unit of calorific	valu	ıe is				
	(A) joule	lacksquare	Kilojoule	©	Kilojoule.(kg)	(Kilojoule/(kg)

- **45.** Fossil fuels were formed from
 - A Stones

B Dead remains of living organisms

© sea water

- Plastics
- **46.** Which is an exhaustible resource?
 - A Air

- Sunlight
- © Fossil fuel
- Wind

- **47.** Producer gas is
 - \bigcirc [CO + N₂]
- **B** $[CO + H_2]$
- © $[CO + O_2]$
- \bigcirc [CO + Cl₂]

- **48.** The colour of peat is
 - A Light brown
- B Brown
- © Black
- Bright black

- **49.** Lowest form of carbon is present in
 - A Peat

B Lignite

© Bituminius coal

- Anthracite coal
- **50.** Which is used as a fuel in wick stoves?
 - A Diesel

B Petrol

© Kerosene

D Lubricating oil

Mathematics

- **51.** $\left(\frac{-7}{13} + \frac{19}{26}\right) = ?$
 - **A** $\frac{7}{26}$
- **B** $\frac{5}{26}$

© $\frac{3}{26}$

- **52.** What should be added to $\frac{5}{12}$ to get $\frac{-3}{14}$?
 - (A) $\frac{53}{84}$

B $\frac{-53}{84}$

© $\frac{51}{84}$

- $\bigcirc \frac{-51}{84}$
- **53.** The product of all rational numbers lying between –1 and 1 is
 - **A** $\frac{1}{2}$

B 0

© $-\frac{1}{2}$

© Cannot say

- **54.** The additive inverse of $\frac{-23}{26}$ is
 - (A) $\frac{25}{26}$

B 1

© 0

 $\bigcirc \frac{23}{26}$

		[6]		
55.	The value of $\left(\frac{-3}{5}\right)^{-2}$	is		
			© $\frac{9}{25}$	① $\frac{-9}{25}$
56.	The value of $(1)^{-1} + \left(\frac{1}{2} \right)^{-1} + \left(\frac$	$\left(\frac{1}{2}\right)^{-1} + \left(\frac{1}{3}\right)^{-1}$ is		
	▲ −6	B 1	© 6	D 0
57.	3430000 in standard	form is		
	(A) 3.43×10^6	B 34.3×10^5	© 343×10^4	① 3430×10^3
58.	The value of $\left(\frac{1}{2}\right) \div \left(\frac{3}{5}\right)$	is equal to:		
		(B) $\frac{3}{5}$	© $\frac{6}{5}$	
59.	The additive identity	y of rational numbers i	· ·	ŭ
	(A) 0	B 1	© -1	D 2
60.	What is the product	of $\frac{2}{9}$ and $\frac{3}{4}$?	5	
		(B) $\frac{2}{3}$	\bigcirc $\frac{1}{9}$	\bigcirc $\frac{1}{4}$
61.	The multiplicative ic	lentity of rational nun	nbers is:	
	(A) 0	B 1	© -1	D 2
62.	The exponent in the	expression 3 ⁷ is		
	A 1	B 7	© 0	© 3
63.	The value of $\frac{1}{3^2}$ is equal to $\frac{1}{3^2}$	qual to		
		® 1	© $\frac{9}{1}$	① $\frac{1}{3}$
64.	4^{-3} in exponential for	orm with base 2 is		
	(€) 2 ⁶	B 2^3	© $(-2)^6$	D 2 ⁻⁶
65.	Value of $4^3 \times 5^3$ is			

© 20

B 20^6

 $\triangle 20^3$

© 80

		[1]		
66.	The rational number	r that does not have a	reciprocal is	
	(A) 0	B 1	© -1	D 12
67.	The product of ratio	nal number $\frac{-2}{3}$ and its	s additive inverse is	
	(A) 1	B $\frac{2}{3}$	© $\frac{4}{9}$	$\bigcirc \frac{-4}{9}$
68.	Find the value of fol	lowing expression $\frac{-4}{5}$	$\times \frac{3}{7} \times \frac{15}{16} \times \frac{-14}{9}$	
			\bigcirc $\frac{1}{3}$	① $\frac{3}{4}$
69.	Name which proper	ty is used in following	soperation $\frac{1}{2} \times \left(5 \times \frac{2}{5}\right)$	$= \left(\frac{1}{2} \times 5\right) \times \frac{2}{5}$
	Associative	Reciprocal	© Commutative	Additive inverse
70.	By simplifying $(8)^{\frac{2}{3}}$			
	(A) 4 By simplifying $(7)^{\frac{2}{5}}$	B 16	© $\frac{(8)^2}{(8)^3}$	③ 32
71.	By simplifying $(7)^{\frac{2}{5}}$	$(7)^{\frac{3}{4}}$ we get —		
	(7) $\frac{6}{20}$	® 7		(7) $(7)^{\frac{7}{20}}$
72.	$(-2)^{m+1} \times (-2)^4 = (-2)^4$	$)^6 \Rightarrow m =$		
	(A) 0	® 1	© -1	None of these
73.	One rational number	er between 2 and 3 is		
	$ rianglerightarrow rac{5}{2}$	(B) $\frac{3}{2}$	\bigcirc $\frac{7}{2}$	None of these
74.	One equivalent ratio	onal number of $\frac{9}{4}$ is		
	(A) $\frac{18}{8}$	(B) $\frac{27}{8}$	\bigcirc $\frac{9}{8}$	① $\frac{45}{16}$
75.	The value of $x^{a-b} \times x$	$b-c \times x^{c-a}$ is		
	A 3	B 1	© 2	D 0

Biology

76.	When plants of the s Agriculture	same kind are cultivate B Crop		t one place on a la Weeds	_	scale, it is called - Farming
77.	Tilling refers to —					O
	(A) the process of loc	osening & turning the	soil			
	B the process of rer					
	© the process of see	9				
	_	pplying minerals to so	il			
78.	Which of the followi	ng is referred to as agi	icu	ltural practice?		
	(A) Sowing	B Irrigation		Harvesting	(All
79.	What is the term use	ed for placing seeds in	the	soil for germination	n?	
	Cultivation	Sowing	_	Harvesting	_	Irrigation
80.	Which season in Inc	lia is associated with F	Rabi	crop?		
	(A) Summer	Monsoon	©	Winter	(D)	Spring
81.	Which of the followi	ng is a common Khari	if cr	op in India?		
	Mustard	Barley	©	Millets	(D)	Gram
82.	Which of the followi	ng is a typical Rabi cro	p i	n India?		
	A Rice	B Wheat	©	Maize	(D)	Cotton
83.	What is the primary	purpose of crop rotati	on	in agriculture?		
	(A) To increase soil for	ertility	B	To reduce water u	ısag	ge
	© To control pests a	and diseases	(D)	To maximise the u	ıse	of fertiliser
84.	Which of the followi	ng is an example of a	trad	litional agricultura	l pr	actice?
	Organic farming		B	Wetland farming		
	© Hydroponics		(D)	Subsistence farm	ing	
85.	What is the primary	purpose of using ferti	lize	rs in agriculture?		
	Weed control		B	Pest control		
	© Increasing soil fe	rtility	(D)	Enhancing water	abs	orption

86.	What is the process Sowing	of loosening and turni B Harvesting	ing the soil before sow © Ploughing		seeds called? Irrigation
87.	S	crucial role in determi	6 6		
	Soil type and fertAvailability of lab	•	 Temperature and All of the above	l cliı	mate
22	•	purpose of tilling the		ratio	nn?
00.	To control weeds		son during son prepar	aur)11:
	B To increase soil for a soil				
		ion and water absorpt	tion		
	© To control pests	ion and water absorpt			
20	-	vn during which seaso	n in India?		
03.	Winter	B Summer	© Monsoon	(D)	Spring
90.		ntial for successful sov			opims
<i>3</i> 0.	Water scarcity	ittal for successful sov	B Dense planting		
	© Proper seed dept	th and spacing	Sowing at any tin	ne o	f the year
91.	The process of rearing	ng animals for comme	ercial purposes is calle	ed –	- -
	A Levelling	NO.	B Harvesting		
	© Animal husband	ry	Poultry		
92.	Clover is a				
	A Cash crop	B Fodder crop	© Food crop	(D)	Ornamental crop
93.	Select the food crop	among the following:			
	A Rice	Wheat	© Maize	(D)	All
94.	Which of the follow	ing is not an ornamen	tal plant?		
	Orchid	B Rose	© Marigold	(D)	Hemp
95.	Which among the for the field?	llowing agricultural p	ractices, ensures even	dist	tribution of water in
	A Ploughing	B Levelling	© Manuring	(Sowing
96.	Unwanted plants gr	owing in the field are	called —		
	A Crops	B Pests	© Weeds	(D)	None of the above

- 97. Jute is a
 - A Cash crop
- **B** Food crop
- © Ornamental crop © Fodder crop
- 98. Sowing seeds with the help of a seed drill is beneficial because
 - A The seeds are sown at proper depth under the soil
 - ® The seeds are sown at proper intervals from each other
 - © It protects the seeds from being eaten by birds
 - All of the above
- 99. Which of the following organisms are considered 'friends of farmers'?
 - A Flatworms
- Rats

- © Snakes
- © Earthworms

- **100.** Short duration summer crops are called
 - A Food crop
- B Fodder crop
- © Zaid crop



Space For Rough Works

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