





MENTORS EDUSERV TALENT REWARD EXAM (METRE) SAMPLE TEST PAPER

[For Students presently in Class 8 going to Class 9 in 2021]

Time : 2 hours

Maximum Marks: 300

INSTRUCTIONS DO NOT BREAK THE SEALS ON THIS BOOKLET, AWAIT INSTRUCTIONS FROM THE INVIGILATOR. [A] General 1. This Question paper contains **FIVE** Parts, **A to E** (Physics, Chemistry, Mathematics, Biology & Mental Ability). This Question Paper contains 15 pages including cover page. 2. This question paper contains total 100 questions (20 questions each in Physics, Chemistry, 3. Mathematics, Biology and Mental Ability). 4. The Question Paper has blank spaces at the bottom of each page for rough work. No additional sheets will be provided for rough work. 5. Blank papers, clip boards, log tables, slide rule, calculators, cellular phones, pagers and electronic gadgets, in any form, are **NOT** allowed. The **OMR** (Optical Mark Recognition) sheet shall be provided separately. 6. [B] Answering on the OMR In all the parts, each question will have 4 choices out of which only one choice is correct. 7. 8. Darken the bubble with Ball Pen (Blue or Black) ONLY. [C] **Filling OMR** 5 On the **OMR sheet**, fill all the details properly and completely, otherwise your OMR will not be 9. checked. **10.** Do not write anything or tamper the barcode in the registration no. box. [D] Marking Scheme: 11. For each question you will be awarded 3 marks if you darken the bubble corresponding to the correct answer ONLY and zero (0) marks if no bubble is darkened. In all other cases, minus one (-1) mark will be awarded. Name **Registration No.:**

[2]		For Students in Class	8 going to Class 9 in	2021 [SAMPLE TEST PAPER]				
	PART-A : PHYSICS							
1.	The vehicles gener	ally slip on the road, wl	hen it rains, because	9				
	(A) friction between	n tyres and road is larg	e					
	(B) friction between	n tyres and road is not	sufficient					
	(C) inertia between tyres and road is large							
	(D) inetria between tyres and road is very less							
2.	A block of 10 kg is 19.6 N. The coeffic	pulled by a constant s ient of friction is	speed on a rough ho	prizontal surface by a force of				
	(A) 0.1	(B) 0.2	(C) 0.3	(D) 0.4				
3.	When a speeding c happens due to	ar takes a sharp turn, th	ne persons sitting in i	t experience outward pull. This				
	(A) inertia of directi	on	(B) change in mo	mentum				
	(C) change in acce	leration	(D) none of the above					
4.	Two balls having masses m_1 and m_2 are dropped from heights h_1 and h_2 respectively in the earths gravitational field. The ratio of their acceleration is $(h_1, h_2 \le R)$							
	(A) m ₁ : m ₂	(B) h ₁ :h ₂	(C) 1:1	(D) None of these				
5.	The pressure exer 10 pascal. Calculat	ted by the weight of e the weight of the bloc	a cubical block of ck.	side 4 cm on the surface is				
	(A) 1.6 × 10 ² N.	(B) 1.6 × 10 ⁻³ N.	(C) 1.6 × 10 ⁻² N.	(D) None of these				
6.	A person sitting in a The ball falls	in open car moving at o	constant velocity thr	ows a ball vertically up into air.				
	(A) Outside the car	r	(B) In the car ahe	ad of the person				
	(C) In the car to the	e side of the person	(D) Exactly in the hand which threw it up					
7.	An object will contin	ue moving uniformly u	ntil					
	(A) The resultant for	orce acting on it begins	to decrease					
	(B) The resultant for	orce on it is zero						
	(C) The resultant for	orce is at right angle to	its rotation					
	(D) The resultant for	orce on it is increased o	continuously					
8.	A ball of mass 0.2 k on the ball is	g moves with a velocity	/ of 20 m/sec and it s	stops in 0.1 sec, then the force				
	(A) 40 N	(B) 20 N	(C) 4 N	(D) 2N				

 9. The limiting friction is (A) Always greater than the dynamic friction (B) Always less than the dynamic friction (C) Equal to the dynamic friction (D) Sometimes greater and sometimes less than the dynamic friction 10. Which one of the following is not used to reduce friction ? (A) Oil (B) Ball bearings (C) Sand (D) Graphite 11. From the adjacent figure, the correct observation is (a) (b) (A) The pressure on the bottom of tank (a) is greater than at the bottom of (b). (B) The pressure on the bottom of the tank (a) is smaller than at the bottom of (b). (C) The pressure depend on the shape of the container. (D) The pressure on the bottom of (a) and (b) is the same. 12. Pressure at a point inside a liquid does not depend on (A) the depth of the point below the surface of the liquid (B) the nature of the liquid (C) the acceleration due to gravity at that point (D) the shape of the containing vessel 13. A spring balance is graduated on sea level. If a body is weighted at consecutively i height from earth's surface, the weight indicated by the balance (A) will go on increasing continuously (B) will no on decreasing continuously 	[3]									
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(B) will go on decreasing continuously										
(C) will remain same										
(D) will first increase and then decrease										
14. A force acts on a body of mass 3 kg such that its velocity changes from 4 ms ⁻¹ to The change in momentum of the body is	10 ms⁻¹.									
(A) 42 kg ms^{-1} (B) 2 kg ms^{-1} (C) 18 kg ms^{-1} (D) 14 kg ms^{-1}										



[4]	For Students in Class 8 going to Class 9 in 2021 [SAMPLE TEST PAPER]									
15.	Find acceleration of the body along x-axis if friction coefficient of the surface is $\mu = 0.1$									
	У									
	$10 \text{ kg} \rightarrow \text{F} = 100 \text{N}$									
	······································									
	(A) 1 m/s^2 (B) 9 m/s^2 (C) 0 m/s^2 (D) 10 m/s^2									
16.	A block of mass 3 kg which is at rest on a surface is pulled horizontally by a force. If the displacement of the block is 15 m in the first 3 s and the surface offers a resistance of 2 N, find the sequence of steps to calculate the magnitude of applied force.									
	(a) Note down the values of s, u, t and frictional force.									
	(b) The applied force on the block is the sum of frictional force and net force.									
	(c) Substitute the values of s, u and t in the equation of motion and solve for 'a'									
	(d) Using Newton's second law of motion, calculate the net force acting on the block.									
	(A) a, d, b, c (B) a, c, b, d (C) a, c, d, b (D) a, b, d, c									
17.	Assertion : If the net external force on the body is zero, then its acceleration is zero.									
	Reason : Acceleration does not depend on force.									
	(A) Both assertion and reason are CORRECT and reason is CORRECT explanation of the assertion.									
	(B) Both assertion and reason are CORRECT but reason is NOT THE CORRECT explanation of the assertion.									
	(C) Assertion is CORRECT but reason is INCORRECT.									
	(D) Assertion is INCORRECT but reason is CORRECT.									
18.	An air bubble rises up in water because,									
	(A) there is no gravity in water.									
	(B) pressure inside the bubble is less than the pressure outside it.									
	(C) the upthrust acting on the bubble is more than the weight of the bubble.									
	(D) air cannot dissolve in water.									
19.	While opening a tap with two fingers, the forces applied are									
	(A) equal in magnitude									
	(B) parallel to each other									
	(C) opposite in direction									
	(D) All the above									
20.	A ship of mass 3×10^7 kg initially at rest is pulled by a force of 5×10^4 N through a distance of									
	3 m. Assuming resistance due to water in negligible. Then the speed of the ship is									
	(A) $U.1 \text{ ms}^{-1}$ (B) $U.2 \text{ ms}^{-1}$ (C) $U.3 \text{ ms}^{-1}$ (D) $U.4 \text{ ms}^{-1}$									

For S	tudents in Class 8 goin	ng to Class 9 in 2021	[SAMPLE TEST PAPER	R]	[5]
		PART-B : C	CHEMISTRY		
21.	Metals combine with	h oxygen to form	oxides.		
	(A) acidic	(B) basic	(C) amphoteric	(D) none	
22.	Metals react with wa	ater to form oxides or h	ydroxides and	<u> </u>	
	(A) hydrogen	(B) oxygen	(C) carbon dioxide	(D) carbon monoxide	;
23.	Eating away of met	als by water, oxygen a	nd other chemicals is	called :	
	(A) carbonisation	(B) amalgamation	(C) oxidation	(D) corrosion	
24.	Rusting of iron requ	ires the presence of :			
	(A) air and water	(B) CO_2 and water	(C) O_2 and H_2	(D) O_2 and N_2	
25.	Metal which does n	ot react even with stre	am :		
	(A) potassium	(B) iron	(C) magnesium	(D) silver	
26.	This is used for mal	king parachutes and s	tockings :		
	(A) cotton	(B) nylon	(C) wool	(D) bakelite	
27.	Which out of the fol	lowing is used for mak	ing disposable cups	?	
	(A) LDPE	(B) PS	(C) PP	(D) PVC	
28.	Which of the followi	ing is used in automob	ile battery casings?		
	(A) HDPE	(B) PP	(C) PVC	(D) Polyester	
29.	This is the synthetic	c fibre :			
	(A) wool	(B) cotton	(C) acrylic	(D) polyestyrene	
30.	Which of the followi	ing is a natural fabric?			
	(A) Polythene	(B) PVC	(C) Nylon	(D) Wool	
31.	Burning of plastic c	auses :			
	(A) water pollution	(B) air pollution	(C) sound pollution	(D) all A, B, C	
32.	This is known as ar	tificial silk :			
	(A) nylon	(B) polythene	(C) rayon	(D) plastic	



[6]		For Students in Class	8 go	ing to Class 9 in 2	021	[SAMPLE TEST PAPER]		
33.	Raw materials for m	ost of the natural fabr	rics a	re obtained from	:			
	(A) water		(B)	earth				
	(C) petroleum		(D)	sky				
34.	Which of the following	ng is a property of nor	imetals ?					
	(A) Low densities		(B) Low melting points					
	(C) Poor conductor	of electricity	(D) All the three					
35.	Mercury is used in the	hermometers because	e :					
	(A) it does not wet the glass			it expands on he	eating	I		
	(C) it is a liquid			all of these				
36.	The nonmetals used	e process of vulcanisation is :						
	(A) sulphur	(B) phosphorus	(C)	carbon	(D)	chloride		
37.	Brass is an alloy of :	:						
	(A) Cu, Sn	(B) Cu, Zn	(C)	Cu, Al	(D)	Sn, Pb		
38.	Which of the following	ng is not a property of	alum	inium?				
	(A) Good conductor	r of heat and electricity	/					
	(B) It is malleable							
	(C) It is heavy							
	(D) It is ductile							
39.	The metal which is s	soft?						
	(A) Na	(B) Pb	(C)	Al	(D)	Cu		
40.	Metals which is the I	best conductor of elec	ctricity	/:				
	(A) nickel	(B) silver	(C)	gold	(D)	sodium		
L								

For Students in Class 8 going to Class 9 in 2021 | [SAMPLE TEST PAPER] [7] **PART-C: MATHEMATICS** The expression $\frac{1}{1.2} + \frac{1}{2.3} + \frac{1}{3.4} + \dots + \frac{1}{n(n+1)}$ for any natural number 'n' is 41. (A) Always greater than 1 (B) Always less than 1 (C) Always equal to 1 (D) Can't say If a and b are twin primes and $a^2 - b^2 = 120$, then their average is 42. (C) 12 (A) 18 (B) 30 (D) 6 The roots of $\frac{x}{x-1} + \frac{x-1}{x} = 2\frac{1}{2}$ are 43. (A) (5, 4) (B) (5, -4) (C) (1, 2) (D) (-1, 2)The value of the expression $\frac{1}{1+x^{a-b}+x^{a-c}} + \frac{1}{1+x^{b-c}+x^{b-a}} + \frac{1}{1+x^{c-a}+x^{c-b}}$ is equal to 44. (C) $\frac{1}{x^{a+b+c}}$ (A) 0 (B) x^{a+b+c} (D) 1 **45.** If $p = \sqrt[r]{\frac{9^{\left(r+\frac{1}{4}\right)} \times \sqrt{3 \times 3^{-r}}}{3 \times \sqrt{3^{-r}}}}$ then $\sqrt{p-1}$ is equal to (C) $2^{3/2}$ (A) 2 (B) 3² (D) $3^{1/r}$ $\frac{(x^{a+b})^2 (x^{b+c})^2 (x^{c+a})^2}{(x^a \times x^b \times x^c)^4} \text{ is equal to}$ 46. (A) – 1 (B) 0 (C) 1 (D) 2 47. A boat goes 16 km upstream and 24 km downstream in 6 hours. Also it covers 12 km up stream and 36 km downstream in the same time. Find the speed of the boat in still water ? (C) $2\frac{1}{2}$ km/h (A) 8 km/h (B) 4 km/h (D) 12 km/h

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For St	tudents in Class 8 g	oing to Class 9 in 2021	[SAMPLE TEST PAPI	ER] [9]
54.	What is the least	number by which 8640	0 is divided, the quotier	it as a complete cube number?
	(A) 6	(B) 7	(C) 5	(D) 8
	X V			
55.	If $\frac{x}{y} + \frac{y}{x} = -1$ (x, y	$y \neq 0$, the value of x^3 .	– y³ is	
	(A) 1	(B) –1	(C) 0	(D) $\frac{1}{2}$
56	The sum of the p	resent ages of a fathe	r and his son is 99 yea	rs. When the father was as old
50.	as his son is now	, his age was four time	es age of the son at tha	at time. The ratio of the present
	ages of the son a	ind the father is		
	(A) 3:7	(B) 3:8	(C) 4:9	(D) 4:7
		$\left(\sqrt{12} - \sqrt{8}\right)\left(\sqrt{2}\right)$	$\overline{\overline{3}}$ + $\sqrt{2}$	
57.	The simplified va	lue of $\sqrt{\frac{(\sqrt{12}-\sqrt{6})(\sqrt{6})}{5+\sqrt{24}}}$	is	
	(A) √6 – 2	(B) 2−√6	(C) 0	(D) 1
58.	Four bells ring a together after	t intervals of 6, 7, 8	and 9 seconds respe	ectively then all the bells ring
	(A) 504 sec.	(B) 516 sec.	(C) 508 sec.	(D) 512 sec.
59.	The smallest nun	nber which when divic	ld by 4, 6, 10, 15 leave	s the same remainder 3 is
	(A) 57	(B) 123	(C) 63	(D) 39
60.	A farmer divides herd, the second 7 cows, then the	his herd of x cows an I son gets one-fourth, value of 'x' is	nong his 4 sons so, tha the third son gets one	at first son gets-one-half of the e-fifth, and the fourth son gets
	(A) 100	(B) 140	(C) 160	(D) 180

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[10]		For Students in Class	8 goi	ing to Class 9 in 2	2021	[SAMPLE TEST PAPER]				
	PART-D : BIOLOGY									
61.	Which among the fo	llowing are kharif crop	os?							
	(A) Maize	(B) Paddy	(C)	Cotton	(D)	All of the above				
62.	Carrier of dengue vir	rus is								
	(A) House fly		(B)	Dragen fly						
	(C) Female aedes m	nosquito	(D)	Butterfly						
63.	Linseed is grown du									
	(A) March to June			October to Mar	ch					
	(C) June to September			March to March	l					
64.	Nitrates are converte	ed into nitrogen by								
	(A) Denitrifying bacteria			(B) Nitrifying bacteria						
	(C) Ammonifying ba	Nitrogen fixing bacteria								
65.	The organic substance obtained from dea			ad plants and animal wastes is						
	(A) Manure	(B) Fertilizer	(C)	Irrigation	(D)	Agriculture				
66.	In which of the follow	ving methods of irrigat	ion ro	otating nozzles a	ire use	ed?				
	(A) Moat	(B) Drip system	(C)	Chain Pump	(D)	Sprinkler system				
67.	Pathogens were disc	covered by								
	(A) Edward Jenner	(B) William Harvey	(C)	Pasteur	(D)	Robert Koch				
68.	The following is an a	ntibiotic								
	(A) Sodium bicarbor	nate	(B)	Streptomycin						
	(C) Alcohol		(D)	Yeast						
69.	The management ar	nd care of farm anima	als by humans for profit is known as							
	(A) Granary		(B)	Animal Husban	dry					
	(C) Poultry farm		(D)	Warehouse						
70.	Vaccination was inve	ented by								
	(A) Pasteur		(B)	Edward Jenner						
	(C) Robert Koch		(D)	Robert Hooke						

For St	tudents in Class 8 goin	g to Class 9 in 2021	[SAN	IPLE TEST PAPER]		[11]	
71.	Raising of fish in inla	and waters and coast	al wat	ers are called				
	(A) Pisciculture		(B)	Fishery				
	(C) fish culture		(D)					
72.	Pasteurization means -							
	(A) Vaccination for	OX.						
	(B) Sterilization in s	team cooker at 100°	C.					
	(C) Heating milk or	other liquids to 60°C t	to 70°(C for short duration	on.			
	(D) A technique or curing people bitten by mad dogs.							
73.	3. Combines are used for:							
	(A) sowing of seeds			(B) harvesting the crops				
	(C) threshing			harvesting and threshing both.				
74.	The bacterial genome is called							
	(A) Nucleus	(B) Nucleolus	(C)	Nucleoid	(D)	None		
75.	What is the use of p	hosphides?						
	(A) Rodenticide	(B) Insecticide	(C)	Fungicide	(D)	Weedicide		
76.	Which of the followi	ing tools would farmer	r use t	o remove weeds	from	the filed		
	(A) Hoe	(B) Polugh	(C)	Axe	(D)	Cultivator		
77.	Operation flood is of	therwise called						
	(A) Green revolution	n.	(B) White revolution					
	(C) Black revolution	۱.	(D)	Yellow revolution	า			
78.	Malaria is caused by	у						
	(A) Protozoa	(B) Virus	(C)	Algae	(D)	Bacteria		
79.	The most common	carrier of communica	ble di	seases.				
	(A) Ant	(B) Housefly	(C)	Dragonfly	(D)	Spider		
80.	Plant disease citrus	canker is caused by						
	(A) Virus	(B) Fungi	(C)	Bacteria	(D)	None of these		









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91. Mukesh wants to go	to the market. She								
the crossing. The ro which direction is th	Mukesh wants to go to the market, She starts from her home which is in North and comes to the crossing. The road to her left ends in a park and straight ahead is the office complex. In which direction is the market the crossing?								
(A) East	(B) West	(C) North	(D) South						
92. Jai left home and c and cycled 10 km a cycle to reach his h	ycled 10 km towar and turned right an ome straight ?	ds North, turned right d cycled 10 km. How	and cycled 5 km & turned right many kilometer will he have to						
(A) 10 km	(B) 5 km	(C) 20 km	(D) 15 km						
 93. If ÷ stands for great > stands for multip following alternative 	er than, x stands fo lication, = stands t es is correct ?	or addition, + stands fo for less than, < stanc	or division, – stands for equal to, Is for minus, then which of the						
(A) 3 + 2 < 4 ÷ 6 >	(A) $3 + 2 < 4 + 6 > 3 \times 2$ (B) $4 \times 3 < 5 - 8 + 2 < 2$								
(C) 3 > 2 < 4 – 6 x 3	3 x 2	(D) 4 × 3 × 5 =	= 8 + 4 < 3						
94. Village Chimur is 8 village Rewa. Villag Rahate and goes to	km to the North of ge Angne is 9 km village Angne, find	f village Rewa. Village to the West of Chim the distance and dire	e Rahate is 6 km to the East of ur. If Sanjay starts from village ection from starting point ?						
(A) 17 km North		(B) 17 km Nor	th-West						
(C) 17 km South		(D) 17 km Sou	uth-East						
95. A man walks 30 m to left he walks 20 m. position?	owards South. The Again turning to h	n turning to his right he is left he walks 30 m.	e walks 30 m. They turning to his How far is he from his starting						
(A) 30 m	(B) 20 m	(C) 80 m	(D) 50 m						
96. If '20 – 10' means 2	00, '8 ÷ 4' means	12, '6 x 2' means 4 an	nd '12 + 3' means 4, then						
100 – 10 x 1000 ÷	1000 + 100 x 10 =	?							
(A) 0	(B) 1090	(C) 1900	(D) 20						
97. Manoj runs 10 m tov again turns to left, ru 10 m. Now, which d	wards South and tu uns 10 m and then irection is the rat fa	ırns to right, runs 10 m turns to left, runs 10 m acing?	n and turns to right run 10 m and and finally turns to left and runs						
(A) East	(B) North	(C) West	(D) South						

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For St	udents in Class 8 goin	ng to Class 9 in 2021	[SAMPLE TEST PAPER]		[15]				
98.	Find the wrong terr	ns ?							
	3, 1.5, 1.5, 2.5, 4.5,	11.25							
	(A) 1.5	(B) 4.5	(C) 2.5	(D) 11.25					
99.	Direction [Qs. 99	to 100] : Find the Nex	kt terms ?						
	2, 3, 5, 7, 11, 13, 17, ?								
	(A) 21	(B) 23	(C) 19	(D) 25					
100.	77, 49, 36, 18, ?								
	(A) 9	(B) 7	(C) 3	(D) 8					









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MENTORS EDUSERV TALENT REWARD EXAM (METRE) SAMPLE TEST PAPER

[For Students presently in Class 8 going to Class 9 in 2021]

Time : 2 h	ours							Maxi	mum Mark	s: 300
	PHYSICS									
1.	(B)	2.	(B)	3.	(A)	4.	(C)	5.	(C)	
6.	(D)	7.	(B)	8.	(A)	9.	(A)	10.	(C)	
11.	(D)	12.	(D)	13.	(B)	14.	(C)	15.	(B)	
16.	(C)	17.	(C)	18.	(C)	19.	(D)	20.	(A)	
			_							
CHEMISTRY										
21.	(B)	22.	(A)	23.	(D)	24.	(A)	25.	(D)	
26.	(B)	27.	(B)	28.	(B)	29.	(C)	30.	(D)	
31.	(B)	32.	(C)	33.	(C)	34.	(D)	35.	(D)	
36.	(A)	37.	(B)	38.	(C)	39.	(A)	40.	(B)	
			M	ATHEN	1ATI	CS				
41.	(B)	42.	(B)	43.	(D)	44.	(D)	45.	(C)	
46.	(C)	47.	(A)	48.	(C)	49.	(D)	50.	(B)	
51.	(A)	52.	(A)	53.	(C)	54.	(C)	55.	(C)	
56.	(D)	57.	(A)	58.	(A)	59.	(C)	60.	(B)	
				BTOI	OGY					
61	(D)	62	(\mathbf{C})	63		64	(Δ)	65	(Δ)	
66	(D)	67	(O) (D)	68	(B)	69.	(~) (B)	00. 70	(~) (B)	
71	(Δ)	72	(C)	73	(D)	74	(C)	75	(Δ)	
76	(~) (Δ)	77	(C) (B)	78	(Δ)	79.	(C) (B)	80	(~) (C)	
70.	(~)		(2)	10.	(~)	70.	(2)		(0)	
MENTAL ABILITY										
81.	(A)	82.	(B)	83.	(B)	84.	(A)	85.	(B)	
86.	(C)	87.	(D)	88.	(C)	89.	(C)	90.	(D)	
91.	(B)	92.	(B)	93.	(B)	94.	(B)	95	(D)	
96.	(A)	97.	(A)	98.	(C)	99.	(C)	100.	(D)	