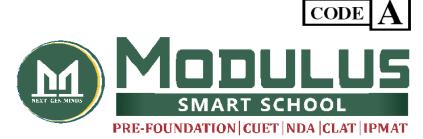
CLASS

8th to 9th

Moving



Dream

Believe

Achieve

Intelli-Mind Scholarship Exam

MAXIMUM TIME - 1:30 Hrs.	MAXIMUM MARKS: 60

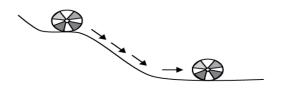
GENERAL INSTRUCTIONS for The Test:-

- ➤ The question paper consists of 3 sections (Section –A contains Science, Section-B contains Mathematics, Section-C contains English.
- ➤ This Question Paper contains a total of 60 questions.
- Write the correct answer for each question in your answer sheet.
- ➤ All questions are **single correct type questions**, each of these questions has four choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.
- For each question, you will be awarded 4 marks if you have darkened only the bubble corresponding to the correct answer.
- Zero mark if no bubble is darkened.
- \triangleright In all other cases, minus one (-1) mark will be awarded.

Student's Signature	Invigilator's Signature	

Section - A (CHEMISTRY)

1. Strong acid + Weak base → Y+ H2O+Hea	at the substance Y is	
(a) Neutral salt	(b) Basic salt	
(c) Acidic salt	(d) Double salt	
2. Electrolysis of water is		
(a) Physical change	(b) Chemical change	
(c) Both 1 and 2	(d) None of these	
(c) Both I take 2	(a) Frome of these	
3. Which gas is evolved when potassium carbon	ate is treated with dilute HC1?	
(a) Hydrogen (H2)	(b) Sulphur dioxide (SO2)	
(c) Carbon monoxide (CO)	(d) Carbon dioxide (CO2)	
4. Which of the following can displace Iron from	n FeSO4 solution?	
(a) Zinc	(b) Copper	
(c) Silver	(d) None of these	
5. When huge amount of sewage is dumped into		
(a) Decrease	(b) Increase	
(c) Remain unchanged	(d) none of the above	
6. Thermosetting plastic is		
(a) Bakelite	(b) PVC	
(c) Polyethene	(d) Both (1) and (2)	
7. One of the first man-made fibre is:		
(a) Rayon	(b) Nylon	
(c) Polyester	(d) None of these	
-	NIVELEE	
<u> </u>	<u>PHYSICS</u>	
0 A (4 1 - 4 11' 1 - 1 1 ' 1 - 4 6	
-	towards each other. They collide head in and stops after some	
	icle will have maximum change in momentum? (FORCE	
AND PRESSURE)		
(a) Can	4.\ T1.	
(a) Car	(b) Truck	
(c) Both will have same	(d) none of these	
Q. When pressure is applied through a piston at t	the top of a closed tube containing water, the pressure is	
transmitted to:-	(FORCE AND PRESSURE)	
transmitted to	(FORCE AND I RESSURE)	
(a) Only the bottom of container	(b) All directions	
(c) Only the side faces and the bottom of the con		
Company and	(-)	
10. The given diagram shows a ball rolling dow	n a slope. The ball finally comes to a stop by itself.	
Which of the following statements describe mos		
which of the following statements describe most fixery cause for the ball to stop: (Fretion)		



- (a) The heat produced as a result of its motion.
- (b) The speed produced as a result of its motion.
- (c) The friction between the ball and the surface.
- (d) The energy produced as a result of its motion.
- 11. The frequency of a source is 20 kHz. The frequencies of sound wave produced by it in water and air will be: (**Sound**)
- (a) Same as that of source $\simeq 20 \text{ kHz}$

(b) > 20 kHz

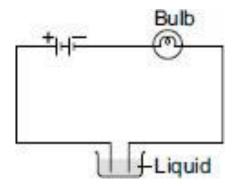
(c) <20kHz

- (d) Depends upon velocity
- 12. Sound travels through air, steel, and water at different speeds. Which list is ordered from the substance that sound will travel through the slowest to the substance that sound will travel through the fastest? (**Sound**)
- (a) air, water, steel

(b) water, air, steel

(c) water, steel, air

- (d) steel, air, water
- 13. The given figure shows a set-up for testing conduction of electricity in different liquids. Pick out the group of liquids for which the bulb will not glow



- (a) Milk, Lemon juice, tap water, Honey
- (b) Vinegar, Tap water, Kerosene, Lemon juice
- (c) Honey, Kerosene, Vegetable oil, Distilled water Kerosene
- (d) Vegetable oil, Distilled water, Vinegar,
- 14. The refractive index of flint glass is 1.65, and that of alcohol is 1.36 with respect to air. What is the refractive index of the flint glass with respect to alcohol?
- (a) 0.82

(b) 1.21

(c) 1.11

(d) 1.01

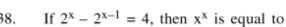
BIOLOGY

15. Choose odd option from the following			
(a) Pitcher plant	(b) Sundew plant		
(c) Venus fly trap	(d) Lichen		
16. Which cells are likely to possess the highest numbers			
(a) Hair cells	(b) Skin surface cells		
(c) Red blood cell	(d) Muscle cell		
17. Factor not essential for photosynthesis is			
(a) O2	(b) CO2		
(c) H2 O	(d) Chlorophyll		
18. Which crops are known as winter crop?			
(a) Kharif crop	(b) Zaid crop		
(c) Rabi crop	(d) none of these		
19. Which animal are ovoviviparous animal			
(a) Dogs	(b) Lions		
(c) Rattle snake	(d) Elephant		
20. Which microorganism is the connecting link between living and non living?			
(a) Bacteria	(b) Protozoa		
(c) Virus	(d) Fungus		

<u>Section – B (Mathematic)</u>

			•		
21.	If $a = 2 + \sqrt{3}$ ar	and b = $2 - \sqrt{3}$, then $\frac{1}{a}$	$+\frac{1}{h}$ is equal to -		
	(A) $2\sqrt{3}$	u	Ü	(D) – 4	
22.	What must be	added to the sum of	$4x^2 + 3x = 7$ and 3	$x^2 + 6x + 5$ to get: 1?	
	(A) $/x^2 + 9x^2$	- 3 (B) 3 - 9X - /X-	(C) /x- + 9x -	- 2 (D) None of these	
23.	$\sqrt{0.01 + \sqrt{0.0064}}$ =	= ?			
	(A) 0.03	(B) 0.3	(C) 0.42	(D) None	
24.	If $x^{1/3} + y^{1/3} +$	$z^{1/3} = 0$, then -			
	(A) x + y + z		(B) $(x + y + z)$	$(x)^3 = 27 \text{ xyz}$	
	(C) x + y + z = 3xyz		(D) $x^3 + y^3 + y^3$	-	
25.		of x if: $\frac{3x+5}{2x+7} = 5$. , ,		
	7	30	-30	- 7	
	(A) $\frac{7}{30}$	(B) $\frac{30}{7}$	(C) $\frac{-30}{7}$	(D) $\frac{-7}{30}$	
26	T1	,		: 25 The leaves and a few	
26.				is 25. The largest number is:	
	(A) 30	(B) 32	(C) 36	(D) 42	
27	Find the volume	of a cuboid of $\ell = 10$	cm. b = 8 cm and h	= 6 cm.	
	(A) 480 cm ²	(B) 376 cm ³	(C) 480 cm ³		
28.		a right-angled triangle		* *	
20.	(A) 78 cm ²	(B) 30 cm ²	(C) 30 cm ³ (D)		
29.	What is 15 perc		(c) 30 cm (D)	TO CIT	
27.	(A) Rs. 3.40	(B) Rs. 3.75	(C) Rs. 4.50	(D) Rs. 5.10	
30.	0.01 is what per		(C) Rs. 4.50	(D) Rs. 3.10	
50.					
	(A) $\frac{1}{100}$	(B) $\frac{1}{10}$	(C) 10	(D) 100	
31.			s the probability of ge	tting at most two heads?	
	(A) $\frac{3}{4}$	(B) $\frac{1}{4}$	(C) $\frac{3}{8}$	(D) $\frac{7}{}$	
22		4	0	0	
32.			· .	ll be a diamond or a king, is:	
	(A) $\frac{2}{13}$	(B) $\frac{4}{13}$	(C) $\frac{1}{13}$	(D) $\frac{1}{52}$	
33.	Mode is:				
	(A) Least freque	ent value	(B) Middle most va	lue	
	(C) Most freque	nt value	(D) None of these		
34.	Mean of first n	natural numbers is -			
	(A) $\frac{n(n-1)}{2}$	(B) $\frac{n(n+1)}{2}$	(C) $\frac{(n+1)}{2n}$	(D) $\frac{n+1}{2}$	
35.	-	first five multiples of 3 is			
26	(A) 3		C) 12	(D) 15	
36.					
	(A) $5(a + 4)$	(B) abcde	C) 5 (a+b+c+d+e)	(D) None of these	

37.	$\frac{2^{n+3}-2(2^n)}{2(2^{n+2})} \text{ when } s$	simplified is -		
	(A) $1 - 2(2^n)$	(B) $2^{n+3} - \frac{1}{4}$	(C) $1 - \frac{1}{4}$	(D) $1-\frac{1}{2}$



(A) 1

38. If
$$2^x - 2^{x-1} = 4$$
, then x^x is equal to

(B) 27

(C) 3

(D) None of these

39. The value of
$$\frac{\sqrt{x^2+1}+\sqrt{x^2-1}}{\sqrt{x^2+1}-\sqrt{x^2-1}} + \frac{\sqrt{x^2+1}-\sqrt{x^2-1}}{\sqrt{x^2+1}+\sqrt{x^2-1}}$$
 is

(A) $2x^2$

(B) 2x

(C) x

(D) x²

40. If
$$\frac{(\sqrt{a}-\sqrt{b})^2+4\sqrt{ab}}{a-b}=\frac{5}{3}$$
, then the value of a: b is -

(A) 1:16

(B) 1 : 4

(C) 16:1

(D) None

41. In a simultaneous throw of two coins, the probability of getting at least one head is:

(A) $\frac{1}{2}$

(B) $\frac{1}{3}$

(C) $\frac{2}{3}$

(D) $\frac{3}{4}$

(A) $\frac{1}{13}$

(C) $\frac{1}{26}$

(D) $\frac{1}{52}$

(C) 14

(D) 16

44.
$$(x_1 - \bar{x}) + (x_2 - \bar{x}) + \dots + (x_n - \bar{x}) =$$

(A) 0

(B) 1

(C) x̄

(D) None of these

(A) 0

(B) 1

(C) 10

(D) 19

(A) 49

(B) 49.5

(C) 50

(D) 51

47. The diameter of a blue ball is three times of a red ball of the same material. The ratio of the volumes of the blue ball to the red ball is :

(a) 3:1

(b) 6:1

(c) 9:1

(d) 27:1

48. If the radius of a circle is increased by 75%, then its circumference will increase by :

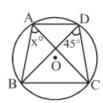
(a) 25%

(b) 50%

(c) 75%

(d) 100%

O is the centre of the circle. Find the value of x? 49.



(a) 45°

(b) 90°

(c) 60°

(d) 30°

(a) 15 cm

(b) 30 cm

(c) 28 cm

(d) 34 cm

Section – C (English)

(Poem) Fame is a food

Fame is a food that dead men eat,

I have no stomach for such meat.

In little light and narrow room,

They eat in the silent tomb.

With no kind voice of comrade near

To bid the feaster be of cheer.

But friendship is a noble thing,

Of friendship it is good to sing.

For truly when a man shall end,

He lives in memory of his friend,

Who doth his better part recall,

And of his fault make funeral.

Ouestions:

Now answer the following questions by choosing correct options:

51. By the expression 'Fame is a food that dead men eat' we mean

(a) fame is enjoyed only after death

(b) fame is enjoyed during life-time

(c) fame is something like a food

(d) fame dies with one's death.

52. Friendship is a noble thing because

(a) a man cannot live without friends

(b) real friends are very helpful

- (c) a man always remembers the good qualities of his friend after his death
- (d) it enhances dignity of mankind.

53. Friendship is better than fame because in friendship

- (a) when a man dies he lives in the memory of his friend (b) a man always regards his friend
- (c) enmity never comes

(d) a man is always happy in the company of his friend.

54. In the last line of the above poem the poet wants to convey that

- (a) one should believe in friendship
- (b) the faults of a man are highlighted by his friend after his death
- (c) 'the faults of a man are forgotten by his friend after his death
- (d) one should not run after fame and friendship.

55. The word recall means

(a) forget(b) come close(c) help(d) remember

56. I was born Delhi.

(a) in, in (b) at, in

(c) at, at (d) on, at

57. ADUMBRATE (b) outline (a) hatred (d) dead body (c) corpse 58. CADAVER (b) outline (a) hatred (c) corpse (d) friendship 59. Choose the word that is most nearly opposite in meaning to the word in capital letters. CACOPHONY (a) euphony (b) cadaver (c) hatred (d) voracious 60. Fill in the blanks with suitable choices. Nowadays _____ attacks are common in the politics, and people do not bother to tell lie. (a) skilled (b) voracious (c) slanderous (d) biased

Choose the word that is most nearly similar in meaning to the word in capital letters.