



Class – VIII (Going to IX)
Duration: 2 hrs. | Maximum Marks: 180

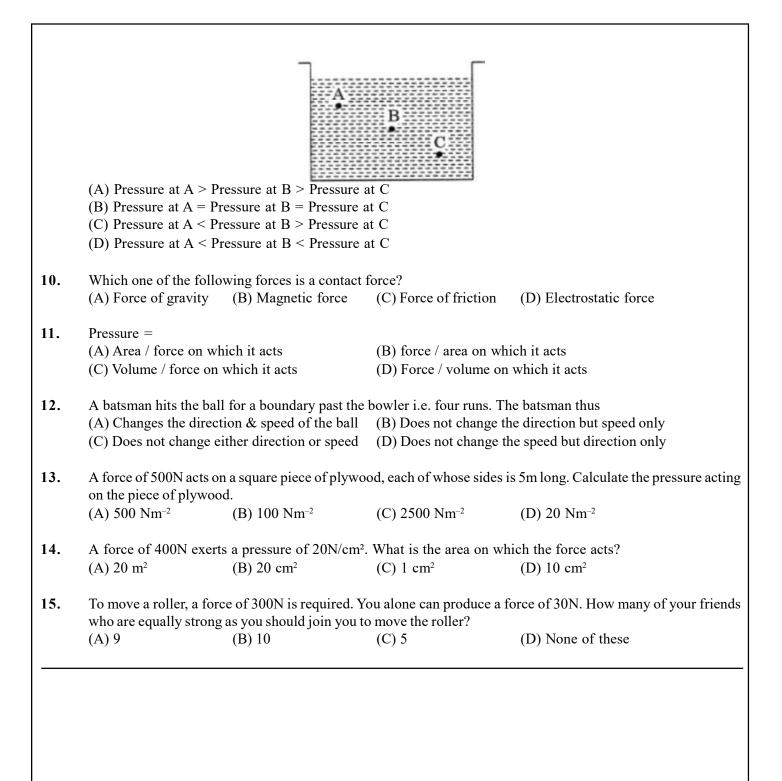
IMPORTANT INSTRUCTIONS

- 1. This Booklet is your Question Paper. DO NOT break seal of Booklet until the invigilator instructs to do so.
- 2. Fill your APRE Roll No. & Answer Sheet No. in the space provided on the cover page.
- 3. Please make sure that paper you received is of your class only.
- 4. The Answer Sheet is provided to you separately which is a machine readable Optical Response Sheet (ORS).
 - You have to mark your answers in the ORS by darkening bubble, as per your answer choice, by using black or blue ball point pen.
- 5. After breaking the Question Paper seal, check there are 10 pages in the booklet. This Question Paper contains 60 MCQs with 4 choices (Subjects: Physics: 15, Chemistry: 15, Maths: 15, Biology: 15)
- 6. Think wisely before darkening bubble as there is negative marking for wrong answer. Answer once marked by pen cannot be cancelled.
- 7. Marking Scheme:
 - a. If darkened bubble is RIGHT answer: 3 Marks.
 - b. If darkened bubble is WRONG answer: 1 Mark (Minus One Mark).
 - c. If no bubble is darkened in any question: No Mark.
- 8. If you are found involved in cheating or disturbing others, then your ORS will be cancelled.
- 9. Do not put any stain on ORS and hand. It over back properly to the invigilator.

Name of the Candidate:	 	
Registration Number:		

PHYSICS

1.	The force responsible f (A) Frictional force	for the wearing out of the (B)Gravitational force		(D) Muscular force	
2.	With the depth of a liqu (A) decreases	nid, exerted pressure (B) ceases	(C) increases	(D) no change	
3.	The pressure applied on a body depends on (A) Force (C) Both force and mass		(B) Mass(D) Both force and area		
4.	The instrument used to (A) Hydrometer	measure the pressure is (B) Manometer	(C) Galvanometer	(D) Anemometer	
5.	Which of the following (A) bar	is not a unit of pressure? (B) Newton	(C) atm	(D) Pascal	
6.	Force changes the (A) motion of body	(B) speed of body	(C) shape of body	(D) all of these	
7.	A spring balance is use (A) mass	d for measuring (B) weight	(C) pressure	(D) speed	
8.	During dry weather, who this is	hile combing hair, somet	imes we experience hair	flying apart. The force responsible for	
	(A) force of gravity	(B) force of friction	(C) electrostatic force	(D) magnetic force	
9.	A container is filled wir pressure of water?	th water as shown in the g	given figure. Which of th	e following statements is correct about	



CHEMISTRY

16.	Which of the following gases remains (A) Ethane and methane (C) Propane and butane	(B) Ethane and	liquid at - 88°C? (B) Ethane and propane (D) Butane and ethane		
17.			to 250°C and gases formed were allowed to pass o 130°C. The liquid collected should mainly be a		
	(A) Petrol and fuel oil	` '	(B) Petrol and ethanol		
	(C) Kerosene and fuel oil	(D) Kerosene ar	nd naphtha		
18.	Hydrocarbons contain: (A) Carbon and hydrogen (C) Carbon and nitrogen	• •	(B) Carbon and oxygen (D) Carbon and carbon dioxide		
19.	Natural gas mainly contains : (A) Propane (B) Butane	(C) Methane	(D) Ethane		
20.	In the laboratory, methane is prepared by heating a mixture of : (A) Sodium acetate and sodium carbonate (B) Sodium acetate and soda lime (C) Soda lime and sodium hydroxide (D) Soda lime and calcium oxide				
21.	Which of the following is known as (A) Ethanol (C) Carbon dioxide	•	(B) Carbon monoxide		
22.	Which of the following gases can be (A) Propane and Methane (C) Butane and Propane	e liquefied under pre (B) Methane and (D) Butane and	d Ethane		

23.	domestic use? (A) Methane and P	nich of the following gases is supplied in LPG (Liquefied Petroleum Gas) cylinders for mestic use? Methane and Propane (B) Methane and Ethane (Ethane and Butane (D) Propane and Butane (D) Propane and Butane			
24.					
27.	(A) Methane	(B) Ethane	(C) Propane	(D) Butane	
25.	How many carbon (A) 5	atoms are present (B) 4	in one molecule of I (C) 3	iquid hydrocarbon? (D) 6 or more	
26.	Petroleum is refined by : (A) Simple distillation (C) Destructive distillation		(B) Fractional distillation (D) None of the these		
27.	Power alcohol is: (A) Alcohol mixed with petrol (C) Alcohol mixed with sulphur		(B) Alcohol mixed with kerosene (D) Alcohol mixed with ethane		
28.	Water gas contains : (A) Hydrogen and carbon dioxide (C) Hydrogen and carbon monoxide		(B) Hydrogen and nitrogen (D) None of these		
29.	Producer gas conta (A) Nitrogen and c (C) Nitrogen and c	arbon monoxide	(B) Hydrogen and (D) Hydrogen and		
30.	Coal gas mainly contains: (A) Hydrogen, methane and carbon dioxide (B) Hydrogen, methane and nitrogen (C) Methane and nitrogen (D) Hydrogen, methane and carbon monoxide				

MATHEMATICS

- The number $-\frac{15}{7}$ on the number line will be represented between 31.
 - (A) 0 and 1
- (B) -2 and -3
- (C) 2 and 3
- (D) -2 and -1

- Evaluate: $\left| \frac{5}{3} + \frac{-7}{6} \right|$ 32.
 - (A) 2
- (B) -2
- (C) $\frac{1}{2}$
- (D) $-\frac{1}{2}$
- By what rational number should $\frac{-5}{48}$ be multiplies to get 20? 33.
 - (A) -36
- (B) 36
- (C) $\frac{-1}{192}$
- (D) -192

- Find the multiplicative inverse $-1 \times \frac{-3}{10}$. 34.
 - (A) $\frac{3}{10}$ (B) $\frac{10}{3}$ (C) $\frac{-3}{10}$
- (D) -1

- If n is a natural number, then \sqrt{n} is **35.**
 - (A) always a natural number
 - (B) always an irrational number
 - (C) always an rational number
 - (D) sometimes a natural number and sometimes an irrational number

- $\left(\frac{3}{-5} + \frac{2}{-8}\right) + \dots = \frac{3}{-5} + \left(\frac{4}{-7} + \frac{2}{-8}\right)$
- (A) $\frac{2}{-7}$ (B) $\frac{2}{7}$ (C) $\frac{4}{-7}$
- (D) $\frac{4}{7}$

- The multiplicative inverse of $\frac{1}{6}$ is _____. 37.
 - (A) -6
- (B) 6
- (C) $-\frac{1}{6}$
- (D) 1
- 38. The smallest number by which 136 must be multiplied so that it becomes a perfect square is
 - (A) 2

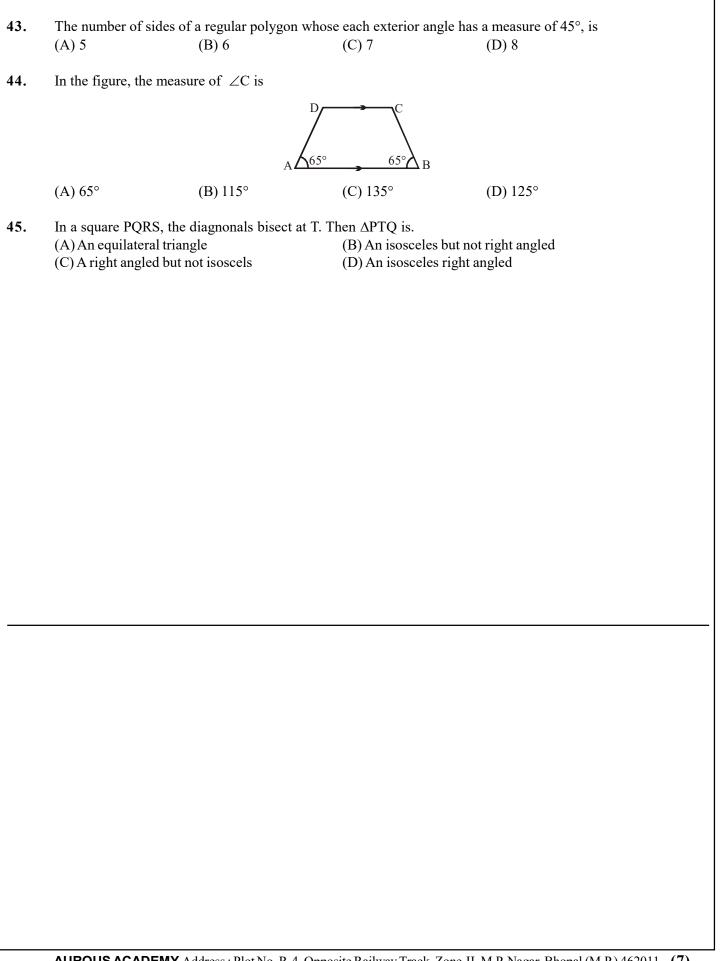
- (B) 17
- (C) 34
- (D) None of these

- 39. DWhich of the following can be a perfect square?
 - (A) A number ending in 3 or 7

- (B) A number ending with odd number of zeros
- (C) A number ending with even number of zeros
- (D) A number ending in 2.
- 40. Which of the following is a pythagorean-triplet?

- (B) (n-1), (n^2-1) and (n^2+1) (D) 2n, (n^2-1) and (n^2+1)
- (A) n, $(n^2 1)$ and $(n^2 + 1)$ (C) (n + 1), $(n^2 1)$ and $(n^2 + 1)$
- If $\frac{1872}{\sqrt{x}}$ = 234, then x is equal to 41.
 - (A) 8

- (B) 64
- (C) 256
- (D) 4
- 42. The sum of two number is 45 and their ratio is 7:8. The numbers are
 - (A) 28:32
- (B) 35:40
- (C) 21 : 24
- (D) none of these



BIOLOGY

46.	The process of loosening (A) tilling	ng of the soil is called (B) harvesting	(C) spraying	(D) weeding
47.	The chemical substance (A) fertilizer	es rich in nutrients are ca (B) weedicide	lled (C) pesticides	(D) herbicides
48.	Which of the following (A) Insulin	drug is an antipyretic? (B) Alcohol	(C) Streptomycin	(D) Paracetamol
49.	What helps in the rise of bread or dosa dough? (A) Heat (C) Growth of yeast cells		(B) Grinding(D) Low pressure	
50.	The disease caused by a (A) measles	fungi is (B) chicken pox	(C) polio	(D) ringworm
51.	Binary fission is observ (A) Hydra	ed in (B) yeast	(C) Amoeba	(D) human being
52.	Asexual reproduction is (A) cow	s observed in (B) buffalo	(C) sponge	(D) hen
53.	In Hydra, the mode of r (A) asexual	eproduction is (B) sexual	(C) both (A) and (B)	(D) none of these
54.	The male gamete or special (A) three parts	erm consists of (B) two parts	(C) four parts	(D) none of these
55.	The liquid material in the (A) chromosomes	ne nucleus is (B) bacteria	(C) nucleoplasm	(D) nucleolus

56.	Tissues combine to form (A) nucleus	m (B) cells	(C) organism	(D) organs
57.	Cells present in living of (A) numbers	organism differ in (B) shape	(C) size	(D) all of these
58.	Cells which lack nucle (A) eukaryotic cells	ar membrane are (B) prokaryotic cells	(C) single cells	(D) multicells
59.	The control centre of a (A) nucleus	ll the activities of a cell is (B) nucleoplasm	s (C) cytoplasm	(D) organelles
60.	Seed drill is used for (A) harvesting	(B) cleaning the seed	(C) sowing	(D) weeding
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