



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

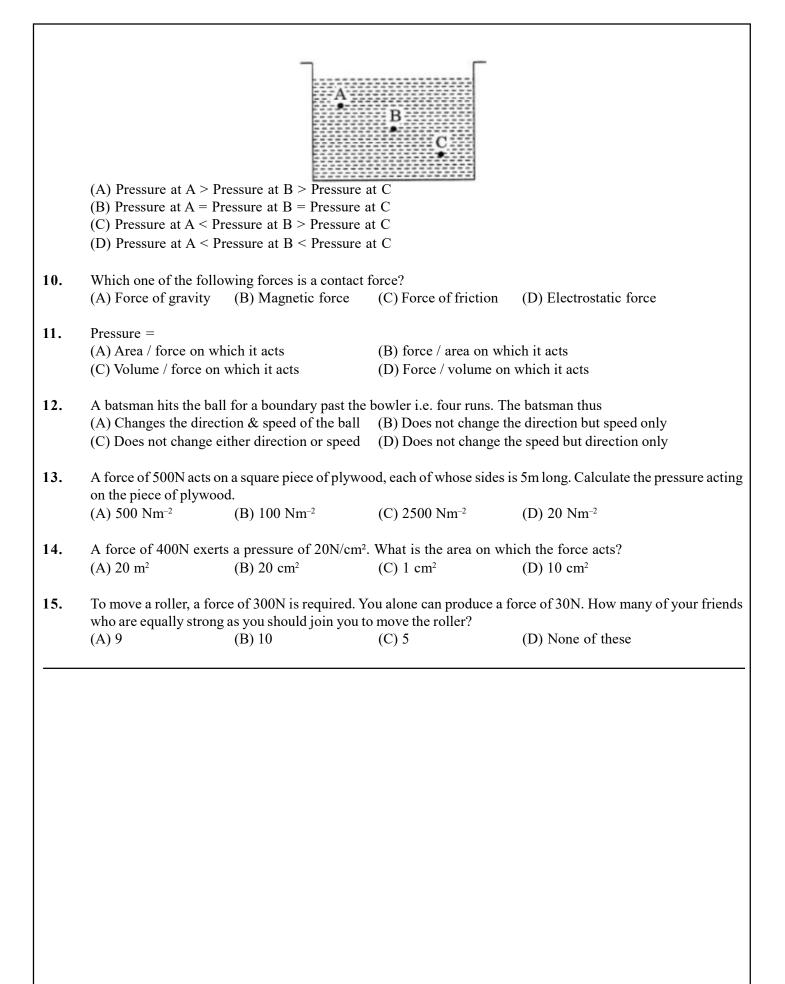
IMPORTANT INSTRUCTIONS

- 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 Candidat	e:	 	
Registration Number:			

PHYSICS

1.	The force responsible factorial force	for the wearing out of the (B)Gravitational force	•	(D) Muscular force
2.	With the depth of a liqu (A) decreases	uid, 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	g 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	ed for measuring (B) weight	(C) pressure	(D) speed
8.	During dry weather, whis 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 wi pressure of water?	th water as shown in the	given figure. Which of th	ne following statements is correct about
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CHEMISTRY

16.	Which of the follo (A) Ethane and n (C) Propane and	nethane	` '	liquid at – 88°C? (B) Ethane and propane (D) Butane and ethane		
17.	through a colum mixture of	n to cool down	upto 130°C. The liq	ses formed were allowed to pass uid collected should mainly be a		
	(A) Petrol and fuel oil(C) Kerosene and fuel oil		• •	(B) Petrol and ethanol (D) Kerosene and naphtha		
18.	Hydrocarbons contain: (A) Carbon and hydrogen (C) Carbon and nitrogen		• •	(B) Carbon and oxygen(D) Carbon and carbon dioxide		
19.	Natural gas main (A) Propane	ly contains : (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 'Fir (A) Ethanol (C) Carbon dioxide		•	(B) Carbon monoxide		
22.	2. Which of the following gases can be liquefied under pressure? (A) Propane and Methane (B) Methane and Ethane (C) Butane and Propane (D) Butane and Methane			d Ethane		

22	Miles - C. H. C. H.	utan a nanan t		ad Dahmalauma Carab a Parka C
23.	Which of the following gases is supplied in LPG (Liquefied Petroleum Gas) cylinde domestic use?			
	(A) Methane and F (C) Ethane and Bu	•	(B) Methane and I (D) Propane and I	
24.	55000 kilo joule/ke (A) Methane	g heat value is pres (B) Ethane	ent in : (C) Propane	(D) Butane
25.	How many carbon (A) 5	atoms are present (B) 4	in one molecule of (C) 3	liquid hydrocarbon? (D) 6 or more
26.	Petroleum is refine (A) Simple distillati (C) Destructive dis	ion	(B) Fractional distillation (D) None of the these	
27.	Power alcohol is: (A) Alcohol mixed (C) Alcohol mixed	•	(B) Alcohol mixed (D) Alcohol mixed	
28.	Water gas contains (A) Hydrogen and (C) Hydrogen and		(B) Hydrogen and nitrogen (D) None of these	
29.	Producer gas conto (A) Nitrogen and c (C) Nitrogen and c	carbon monoxide	(B) Hydrogen and (D) Hydrogen and	
30.	(B) Hydrogen, met (C) Methane and r	thane and carbon d thane and nitrogen		

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) $\frac{4}{-7}$

- 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. Which 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

43.	The number of sides of (A) 5	of a regular polygon whos (B) 6	se each exterior angle has	s a measure of 45°, is (D) 8
44.	In the figure, the meas	sure of ∠C is		
	(A) 65°	A 65° (B) 115°	C 65° B (C) 135°	(D) 125°
45.		diagnonals bisect at T. T		
70.	(A) An equilateral trian (C) A right angled but	ngle	(B) An isosceles but no (D) An isosceles right a	ot right angled angled

BIOLOGY

46.	The process of loosenin (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 (A) Heat (C) Growth of yeast ce	of bread or dosa dough?	(B) Grinding (D) Low pressure	
50.	The disease caused by (A) measles	fungi is (B) chicken pox	(C) polio	(D) ringworm
51.	Binary fission is observ (A) Hydra	red 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 the (A) asexual	reproduction is (B) sexual	(C) both (A) and (B)	(D) none of these
54.	The male gamete or sp (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 o (A) numbers	rganism differ in (B) shape	(C) size	(D) all of these
58.	Cells which lack nuclea (A) eukaryotic cells	ar membrane are (B) prokaryotic cells	(C) single cells	(D) multicells
59.	The control centre of al (A) nucleus	ll the activities of a cell is (B) nucleoplasm	(C) cytoplasm	(D) organelles
60.	Seed drill is used for (A) harvesting	(B) cleaning the seed	(C) sowing	(D) weeding
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