

**SUMMATIVE ASSESSMENT - I - 2017-2018**  
**PHYSICAL SCIENCE - PAPER- I**

(English Medium)

PART - A &amp; B

Class : VIII

(Max. Marks : 40)

Time : 2.45 Hrs.

**Instructions :**

1. 15 Minutes are allotted for reading the question paper (Part A & B) in addition to 2.30 hours for writing the answers.
2. Part - A answers should be written in a separate answer book.
3. There are three Sections in Part - A.
4. Answer all the questions.
5. Every answer should be visible and legible.
6. There is internal choice in Section - III.
7. Part-A & B should be given at the beginning of the exam only.

**Marks : 30****PART-A****Section - I****Note: 1. Answer all the Questions.****2. Each Question carries 1 Mark****3. Answer each question in 1 or 2 sentences  $4 \times 1 = 4$** 

1. What changes can be produced by a force on the object?
2. Imagine and write what will happen if friction is disappeared from the earth
3. Take a glass of water and stir it with a spoon. Now stop stirring. After some time, the water stops whirling and becomes stable. Which force is responsible for stopping the rotation of the water?
4. Give any two objects made up of Acrylic?

**Section - II****Note: 1. Answer all the Questions.****2. Each Question carries 2 Marks  $5 \times 2 = 10$** 

5. Why do you need to change the tyres when it's treading is worn out?
6. Mohith conducted the burning test for given Nylon thread and Cotton thread. What would be the results?

7. A wooden block is suspended with the help of a string and its free end is tied to the ceiling



What are the forces acting on it?

Draw FBD (Free Body Diagram)

8. Take a pencil. Just push its rounded end on your palm. Now push from the other side of the pencil gently so that the sharp end is on your palm.
- What physical quantity can be discussed with this activity?
  - Write the unit of that physical quantity in SI system
9. What purposes are served by using bearing in machines? Explain with one example.

### Section - III

**Note:** 1. Answer all the Questions.

2. Each Question has internal choice

3. Each Question carries 4 Marks

$$4 \times 4 = 16$$

10. a) "Friction is both good and evil to human" explain with examples.

(OR)

b) What are the factors affecting frictional force? Explain any one of the factors with an example.

11. a) Some plastic are given below. Fill the table based on the results of flame test comb, electric switch, plastic bucket, coffee mug, handle of utensil, tooth brush handle; PVC plastic piece of melamine.

S.No	Name of the Plastic sample	Softened / burnt with burning smell and become hard	Thermo plastic Thermosetting plastic

(OR)

b) Give an experiment to know the relative strength of different threads like woolen, cotton, silk, nylon, polyester.

12. a) Read the following table and give answers.

Type of waste	Approximate time to disappear	Change
Peels of fruits	1 - 2 weeks	gets decomposed and disappeared
Left over food stuff	1 - 2 weeks	gets rotten and mixes with soil quickly
Waste paper	10 - 30 days	turns into pieces and decomposed
Cotton cloth	2 - 5 months	turns into pieces and decomposed
Plastic bag	Thousands of years	remains unchanged or remains long time.

Answer the questions

- Name the items that are biodegradable.
- Add two examples of material, which remain a long time in soil.
- Write merits and demerits of non - bio degradable substances?
- Give some suggestion to minimize the usage of non - bio degradable materials.

(OR)

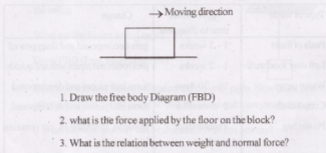
- b) Observe the following information.

Name of the plastic	Characteristics
1. Bakelite	1. It is very hard and tough plastic 2. It is poor conductor of heat and electricity
2. Melamine	1. It can tolerate heat better than other plastic. 2. It is a fire - resistant plastic
3. Teflon	1. It is special plastic on which oil and water do not stick 2. It with stands high temperatures.

Questions

- Which plastic is used in the uniforms of firemen?
- Which plastic is used for making the handle of cooking utensils?
- Which plastic is used for making soles of electric iron and used for giving non - stick coating on cook wares?
- Explain why Bakelite is used for making electrical switches and plugs?

13. a) A wooden block is moving on the floor with some speed



(OR)

- b) Draw a FBD to show the various forces acting on a body which is sliding on an inclined plane.



1. Which plane is used in the construction of inclined plane?	1. It is a smooth plane which is inclined at an angle to the horizontal.
2. What is the advantage of inclined plane?	1. It is a good conductor of heat and electricity.
3. What is the disadvantage of inclined plane?	1. It is a poor conductor of heat and electricity.
4. What is the use of inclined plane?	1. It is used to lift heavy objects to a higher level.
5. What is the relation between weight and normal force?	1. It is equal to the weight of the object.
6. What is the force applied by the floor on the block?	1. It is the normal force.
7. What is the moving direction of the block?	1. It is to the right.
8. What is the name of the block?	1. It is a wooden block.
9. What is the name of the floor?	1. It is a horizontal surface.
10. What is the name of the force applied by the floor on the block?	1. It is the normal force.
11. What is the name of the force applied by the block on the floor?	1. It is the normal force.
12. What is the name of the force applied by the block on the floor?	1. It is the normal force.
13. What is the name of the force applied by the block on the floor?	1. It is the normal force.
14. What is the name of the force applied by the block on the floor?	1. It is the normal force.
15. What is the name of the force applied by the block on the floor?	1. It is the normal force.

## SUMMATIVE ASSESSMENT - I - 2017-2018

## PHYSICAL SCIENCE - PAPER-I

(English Medium)

Class - VIII

Part - B

Time : 30minutes

Marks : 10

Academic standard	AS <sub>1</sub>					AS <sub>2</sub>				AS <sub>3</sub>		AS <sub>4</sub>		AS <sub>5</sub>		Total	Grade	
	1	4	5	8	10	14-25	2	6	26-27	3	11	28-29	7	12	13			9
Q.No's																		
Marks																		
Total																		

Name of the Student : ..... Roll No. : .....

Note:

- Choose the correct answers from the options given and write the CAPITAL Letter regrading
- Each Question carries  $\frac{1}{2}$  mark

14. Which of the following is not a field force ( )
- A) Gravitational force      B) Electro static force  
C) Tension force              D) Magnetic force
15. Net force acts on the given body in the horizontal direction ( )
- A) 2 N up wards      B) 2N down wards  
C) Zero                  D) 8 N down wards
16. Sipping juice with straw is related to ( )
- A) Push                      B) pull  
C) both push and pull      D) Neither push nor pull



17. The attractive force between any two massive objects is ( )  
 A) Muscular force                      B) Gravitational force  
 C) Electrostatic force                  D) Magnetic force
18. The relation between surface area of contact (A) and pressure (P) is ( )  
 A) Direct proportion ( $P \propto A$ )    B) inverse proportion ( $P \propto \frac{1}{A}$ )  
 C) either A or B                          D)  $P = A$
19. In which of the following cases we could like to minimize the friction. ( )  
 A) playing carroms                      B) moving parts of vehicles  
 C) rotating shafts                        D) all of these
20. Statement 1: The substances which reduce friction are called lubricants  
 Statement 2: Oil is an example for lubricants. ( )  
 A) Both statements are true    B) Both are false  
 C) S:1 - True, S:2 - false    D) S:1 - false; S:2 - True
21. Drag is a friction force exerted by ..... ( )  
 A) Solids                      B) liquids                      C) gases                      D) Both B & C
22. Unit of friction force ( )  
 A) Newton                      B) Newton / metre  
 C) Newton / Meter<sup>2</sup>                      D) Newton - meter
23. Friction depends on ( )  
 A) Nature of surface                      B) Normal force  
 C) area of contact                        D) Both a & b
24. Match the following ( )  
 Set - I                                      Set - II  
 1. Acrylic                                      a. artificial silk  
 2. Rayon                                      b. artificial wool  
 3. Terylene                                    c. Polyester  
 A) 1 - a, 2 - b, 3 - c                      B) 1 - b, 2 - a, 3 - c  
 C) 1 - c, 2 - a, 3 - b                      D) 1 - c, 2 - a, 3 - b

25. " Hot pin test " is used to test ..... ( )  
A) Nylon    B) Terylene    C) Bakelite    D) Rayon
26. What happens, when weight of the body is greater than the normal force on it. then, ( )  
A) body moves upwords    B) body moves down wards  
C) Net force acting on body is zero    D) all these can possible
27. What happens if we donot reduce friction in machines? ( )  
A) Friction wears out the rubbing machine parts  
B) Heat is produced that may damage machines  
C) energy is wasted    D) All are possible.
28. In the experiment to find the limiting force can be borne by a string..... we use ..... ( )  
A) Spring balance    B) weighing machine  
C) simple balance    D) Analytical balance
29. A teacher wanted to give some of the steps which can be taken to save the environment from plastic wastes. ( )  
Which of the following statements are supported.  
A) we should try to reduce the use of plastics  
B) we should not throw polythene bags in water bodies.  
C) we should re use the plastic containers  
D) all the above
30. Why sharp knife cuts better than a blunt knife? ( )  
A) Sharp knife has a very thin edge  
B) Sharp knife produces a large pressure  
C) Both A & B    D) None of these
31. While playing a boy slips on wet marble floor and falls down due to ( )  
A) There is no friction    B) Very small friction  
C) A or B    D) incresed friction

32. Why are cars, aeroplanes and rockets streamlined? ( )
- A) to reduce fluid friction      B) Consume less fuel
- C) to increase fluid friction      D) Both A and B
33. "The Disposal of plastic wastes is a major problem".  
This is because of..... ( )
- 1) The articles made of plastics are non - biodegradable
- 2) The burning of plastic wastes gives out poisonous gases which pollute air
- 3) Plastics are biodegradable and gives foul smell
- A) 1 and 2 only      B) 2 and 3 only
- C) 1 and 3 only      D) 1,2,3