

**MODEL PAPER-1**  
**SUMMATIVE ASSESSMENT-1**

**Subject : Physical Science**  
**Class : VIII**

**PART-A**  
**Max.Marks : 30**

**Medium : English Medium**  
**Time : 2.45Hr**

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**SECTION –I**

**NOTE : Answer all the questions.**  
**Each question carries 1 Mark.**

**4x1=4M**

1. Why sportsmen use shoes with spikes?
2. During, dry weather, cloths made of synthetic fiber often stick to the skin. Which type of force is responsible for these phenomena?
3. Among wool, piece of plastic conduct a flame test. Based on smell and type of melting classify them as natural or artificial fibers.
4. Give one example from daily life where we can feel the effect of evaporation?

**SECTION –II**

**NOTE : Answer all the questions.**  
**Each question carries 2 Mark.**

**5x2=10M**

5. What kinds of friction do you know?
6. How can you differentiate between a contact force and a force at a distance?
7. Steam produces more severe burns than boiling water think why?
8. Classify the given materials as Thermoplastics (or) Thermosetting plastics.

<i>S.No</i>	<i>Name of the Sample</i>	<i>Thermoplastics/ Thermosetting plastics</i>
1	Tooth Brush Handle	
2	Cooker Handles	
3	Plastic Bowls	Thermoplastics
4	Carry Bags	
5	Telephone	
6	Electrical Switches	
7	Combs	

9. If plastic is not properly disposed, what could be the consequences?

### SECTION –III

**NOTE : Answer all the questions.**  
**Each question carries 4 Mark.**

**4x4=16M**

10. (a) Do you agree with the statement, “friction is both good and an evil”? Explain with examples.

(or)

(b) When you push a heavy object, it doesn't move. Explain the reason in terms of net force..

11. (a) Describe an activity to observe the speed of diffusion of two gases Hcl and NH<sub>3</sub>

(or)

(b) Where do we use the process of recycling? How is it useful? Give examples?

12. Fill in the boxes with appropriate words.

(a)

PROPERTY	SOLID	LIQUID	GAS
SHAPE	Fixed		
VOLUME		Fixed	
COMPRESSIBILITY			
DIFFUSION			

(or)



Let  $F_1, F_2, F_3$  be the forces with magnitudes 50N, 10N and 70N respectively.  
Let the direction towards right is negative.

i) What is the Net Force in the above diagram?

ii) In which direction Net Force acts?

iii) How much force must be added to have zero Net Force?

iv) What is the Unit of Force?

13. (a) Explain the differences between the thermoplastics and thermosetting plastics with the help of a diagram. Explaining in terms of arrangements of monomers?

(or)

(b) Draw a free body diagram [FBD] to show various forces acting on a body which is sliding on an inclined plane.

# SUMMATIVE ASSESSMENT-1

Subject : Physical Science  
Class : VIII

PART-B

Medium : English Medium  
Max.Marks : 10

Academic Standards	AS1	AS2	AS3	AS4	AS5	AS6	Total
Question Numbers	1,5,6,10 14-27	2,7 28-29	3,11 30-31	8,12	13	4,9 32-33	33
Marks Allotted	16	4	6	6	4	4	40
Marks Obtained							
Grade							

Name of the Student : \_\_\_\_\_

Roll No: \_\_\_\_\_

## SECTION IV

- NOTE :** i) Answer all the questions. **20 x ½ = 10M**  
ii) Each question carries ½ Mark.  
iii) Marks will not be awarded in case of over-writing, rewritten or erased answers.  
iv) Write the CAPITAL LETTER (A,B,C,D) showing the correct answer for the following questions in the brackets. Provided against them.v

14. Which force is being applied by a vendor when he is pushing the pushcart? [     ]  
A) Muscular Force                      B) Magnetic Force  
C) Friction                                D) Electrostatic Force
15. A change in which a solid on heating directly changes into vapour state is called [     ]  
A) Melting                      B) Sublimation                      C) Evaporation                      D) All the above
16. Friction is a/an [     ]  
A) Evil                      B) Foe                      C) Both A & B                      D) None
17. Rayon is made of [     ]  
A) Coal                      B) Oxygen                      C) Flax                      D) Cellulose
18. On which of the following toy car will travel the farthest? [     ]  
A) Wet marble floor                      B) Dry marble floor  
C) Newspaper                      D) Carpet
19. Actions like squeezing, lifting and pressing needs [     ]  
A) Pull                      B) Push                      C) Both A & B                      D) Energy
20. The unit of pressure in SI System is [     ]  
A) Newton                      B) N/m<sup>2</sup>                      C) N/m                      D) Dyne/m<sup>2</sup>

21. Convert  $367^{\circ}\text{C}$  to the Kelvin scale [     ]  
 A) 640 K                      B) 94 K                      C) 273 K                      D) 540 K
22. The process of changing solid to liquid is known as [     ]  
 A) Fusion                      B) Boiling                      C) Sublimation                      D) Freezing
23. The strongest fiber is called [     ]  
 A) Rayon                      B) Nylon                      C) Acrylic                      D) None of these
24. The force involved in falling an apple from a tree is [     ]  
 A) Contact Force                      B) Electrostatic Force  
 C) Magnetic Force                      D) Gravitational Force
25. Lubricants are the substances which \_\_\_\_\_ friction [     ]  
 A) Increases                      B) Decreases  
 C) Increases (or) Decreases                      D) None of the above
26. Synthetic fibers are synthesized from raw material called [     ]  
 A) Petro chemicals                      B) Coal, air, water  
 C) Cellulose                      D) All the above
27. Expand CNG [     ]  
 A) Complicated Natural Gas                      B) Container of Natural Gas  
 C) Compressed Natural Gas                      D) Coal and Natural Gas
28. In which of the following cases, drag doesn't exist [     ]  
 A) Plane moving in air                      B) Fish swimming in water  
 C) Both A & B                      D) None of the above
29. Water boils at \_\_\_\_\_ K [     ]  
 A) 273                      B) 100                      C) 373                      D) 99
30. Precautions while doing flame test for identifying thermo plastics. [     ]  
 A) Don't inhale fumes                      B) Wear apron on clothes  
 C) Keep our self away from spirit lamp                      D) All the above
31. The materials required to perform the activity for finding limiting force of a thread [     ]  
 A) Simple balance, thread, weights, pan                      B) Spring balance, thread, weights  
 C) Spring balance, weights, pan                      D) Spring balance, thread, weights, pan
32. Friction produces [     ]  
 A) Electricity                      B) Hear                      C) Sound                      D) Magnetism
33. Factors (i) Temperature                      (ii) Volume                      (iii) Wind Speed.  
 Which of the above factors affect the rate of evaporation? [     ]  
 A) (i) Only                      B) (i) & (iii) only  
 C) (iii) only                      D) (i), (ii) & (iii)