SUMMATIVE ASSESSMENT - I - 2016

GENERAL SCIENCE - Paper - I

(Physical Sciences)

(English Medium)

PART - A & B

Class : VIII **Max. Marks : 40** **Time : 2:45 Mts.**

Instructions :

1. *In the time duration 15 Minutes is exclusively allotted to read and under - stand the question paper.*
2. *The question paper comprises of three sections I, II, III.*
3. *All questions are compulsory.*
4. *There is no overall choice. However, there is an internal choice to the questions under section - III.*

Marks : 30] **PART - A**

Note : **1) Answer all the questions.** **4 x 1= 4**

2) Answer each question in 1 or 2 sentences.

3) Each question carries 1 mark.

1. What changes can be produced by a force ?
2. Front portion of an aeroplane resembles a bird, if it is flattened, imagine and write the consequence in the movement of the aeroplane ?
3. What is the precaution to be taken while doing the activity to know the reaction of oxygen with metals and non-metals ?
4. Ramya wants to buy clothes to her mother for winter wear. What type of clothes would you suggest ?

SECTION - II

Note : **1) Answer all the questions.**

2) Answer each question in 4 or 5 sentences.

3) Each question carries 2 marks. **5 x 2 = 10**

5. Why the lorries carrying heavy loads have a large number of broader tyres ?

[Turn Over...

6. Classify following materials which can be, can not be recycled ? Tooth brushes, plastic bottles, polythene bags, cooker handles.

7. Your friend is confused to distinguish between two samples. which one is metal and which is non-metal. Prepare and write two suitable questions to clarify his confusion ?

8. Complete the following table.

Situation	Material used (or) procedure followed to increase / reduce friction
1. Between rotating shafts of machine tools.	Ball bearings are used to reduce friction
2. Bottom of the sports shoe	
3. On the road	
4. On the hinges of a door	
5. To play carrom board	

9. 'Introduction of synthetic fibres in the textile industry brought revolutionary change across the world in the dressing pattern irrespective of culture and customs'. Write four sentences to appreciate this ?

SECTION - III

Note : 1) **Answer all the questions.** **4 x 4 = 16**

2) **Answer each question in 8 - 10 sentences.**

3) **There is internal choice for each question. Only one option from each question is to be attempted.**

4) **Each question carries 4 Marks.**

10. Explain the concepts of contact force and field force with any two examples.

(Or)

Hareesh said "friction is both good and an evil". Do you agree with him ? Explain with examples.

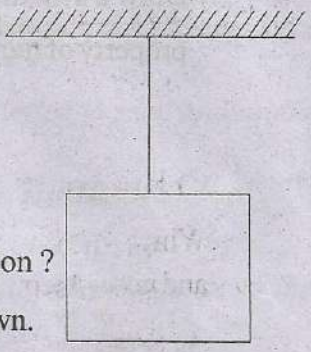
11. Explain the experimental procedure to identifying thermoplastic and thermosetting plastics by flame test ?

[Contd...3

(Or)

" A more reactive metal can replace a less reactive metal, but a less reactive metal cannot replace a more reactive metal." Suggest an experiment with its procedure to prove this and also write the observations in the experiment.

12. As shown in the figure, a wooden block is suspended with the help of a thread and its free end is tied to the ceiling.



From the figure answer the following questions.

i) What are the forces acting on the suspended wooden block ?

ii) Why does not the block fell down in that position ?

iii) If the thread is broken, the block would fall down.

What force(s) is (are) acting on the block, when it is falling down ?

iv) What are the forces acting on the wooden block after reaching the ground ?

(Or)

Some materials are given below the table.

Fill the table by writing the situations in which they are used and reason for it in the electrical consumption.

Material	Situation in which the materials are used	Reason
1) Copper		
2) Iron		
3) Plastic		
4) Bakelite		

13. i) Draw a free body diagram (FBD) to show various forces acting on a book, when it is pushed on a horizontal floor ?

ii) What is the net force acting on the book in the vertical direction ?

(Or)

i) On which physical property of metals, they are preferred to make cooking vessels ?

ii) Draw a neat diagram to show the experimental set up of that physical property of metals.

Regd. No. : [ ] **49-A** Marks : [ ]

SUMMATIVE ASSESSMENT - I - 2016

GENERAL SCIENCE - Paper - I

(Physical Sciences)

(English Medium)

PART - B

Class : VIII **Max. Marks : 10**

Name of the student : ..... Roll No. : .....

Academic Standards	AS1	AS2	AS3	AS4	AS5	AS6	Total
Q. Nos.	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							

Note :

1. **Answer all the questions.**
2. **Each question carries 1/2 Mark.**
3. **Choose the correct answer and write its letter in the brackets.**
4. **Marks will not be awarded in any case of over-writing, rewriting or erased answers.**

$20 \times \frac{1}{2} = 10$

14. Frictional force is independent of _____ ( )

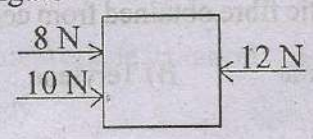
A) Roughness of the surface B) Weight of the objects

C) Area of contact of the surfaces D) All the above

15. Find the net force in the adjacent figure ( )

A) 6N B) 12 N

C) 18 N D) 30 N



[Turn Over...

16. Rivers flow down to the sea, because _____ ( )

A) Magnetic force B) Gravitational force
C) Electrostatic force D) None of these

17. 1. 'Sipping juice with a straw' is an example for pull ( )

2. 'Hoisting a flag' is an example for push

A) 1 true, 2 false B) 1 true, 2 true
C) 1 false, 2 true D) 1 false, 2 false

18. The unit of pressure in S.I. system is ( )

A) Newton B) Newton/meter
C) Newton/(meter)^2 D) Newton–(meter)^2

19. **Match the following.** ( )

A	B
1) Pulling suitcase without rollers	a) Static friction
2) Self adjusting force	b) Fluid friction
3) Drag	c) Rolling friction
	d) Sliding friction

A) 1 - c, 2 - a, 3 - b B) 1 - c, 2 - d, 3 - a
C) 1 - d, 2 - b, 3 - c D) 1 - d, 2 - a, 3 - b

20. If normal force is doubled, then friction is _____ ( )

A) Doubled B) Four times increases
C) Decreases to half D) No change

21. Which of the following is commonly recycled ( )

1) PET 2) HDPE 3) LDPE 4) PVC

A) Only 1 B) 1 and 2 C) Only 3 D) 3 and 4

22. Synthetic fibre obtained from cellulose is ( )

A) Nylon B) Terylene C) Acrylic D) Rayon

[Contd...3

23. The code mentioned on the soft drink bottles is ( )

A)  B)  C)  D) 

24. In the fibre burning test, which yarn smells like burning paper ( )

A) Wool B) Silk C) Cotton D) Nylon

25. Which of the following metal does not react with air and it does not rust. ( )

A) Copper B) Aluminium C) Silver D) Gold

26. 1. All metals should posses sonority property

2. Mercury is not sonorous ( )

A) 1 true, 2 true B) 1 true, 2 false

C) 1 false, 2 true D) 1 false, 2 false

27. Match the following. ( )

A	B
1) Making into thin sheets	a) Ductility
2) Shining materials	b) Malleability
3) Making into wires	c) Lustrous

A) 1 - a, 2 - c, 3 - b B) 1 - b, 2 - c, 3 - a

C) 1 - b, 2 - a, 3 - c D) 1 - c, 2 - a, 3 - b

28. What happens if a spacecraft does not covered by heat shield and entered into the earths atmosphere. Which of the following is close to your imagination. ( )

A) The temperature of atmosphere surrounded by the spacecraft will be increases.

B) The space craft will burn

C) Both A and B takes place D) Both A and B does not take place

29. What happens, if the sports dress is made with nylon instead of acrylic ( )

A) The dress absorbs the sweat

B) The dress does not absorbs sweat and create irritation

C) It gives pleasent feeling to the body

D) Body exposed to the air

30. Comb dry hair and bring it near small pieces of paper. What do you observe ( )

A) Paper pieces attracted by the comb

B) Do not attracted by the comb

C) Repelled by the comb D) No change in the paper pieces

31. Take some zinc granuals in a test tube and add dil. Hydrochloric acid to it. In this reaction ——— gas is evolved. ( )

A) Oxygen B) Chlorine

C) Hydrogen D) No gas is evolved

32. Which non-metal is used in making fireworks, crackers, matchsticks and antiseptic ointments ( )

A) Sulphur B) Carbon C) Iodine D) Bromine

33. Which of the following methods are followed to avoid indiscriminate use of plastics in daily life ( )

1. Reduce the usage of plastics 2. Re use the plastics

3. Recycle the plastics

4. Recover the useful resources from plastics wastage

A) Only 1 is correct B) 2 and 3 are correct

C) 1,2 and 3 are correct D) 1,2,3 and 4 all are correct