U-54-A

SUMMATIVE ASSESSMENT - I - 2018-2019 GENERAL SCIENCE - Paper - I

(Physical Science)

(English Medium)

PART - A & B

(Max. Marks: 40)

Time : 2.45 Mts.

Class : IX

Instructions :

1. Question Paper contains Part - A & Part - B.

- 2. 15 Minutes are allotted for reading the question paper (Part A &B) in
- addition to 2.30 hours for writing the answers.

3. Part - A answers should be written in a separate answer book.

4. There are three Sections in Part - A.

5. Answer all the questions.

- 6. Every answer should be visible and legible
- 7. There is internal choice in Section III.
- 8. Part-A & B should be given at the beginning of the exam only.

Marks: 30

PART - A

Time : 2 Hrs.

Section - I

- Note : 1. Answer all the Questions.
 - 2. Each Question carries 1 Mark
 - 3. Answer each question in 1 or 2 sentences 4 × 1 = 4
 - 1. What is the difference between 2N and N2?
 - Why does a cricketer move his hands backwards while catching a fast moving cricket ball?
 - There is a mixture with sand and iron fillings. Write an activity for the separation of iron fillings from sand.
 - Calculate the momentum of a fast moving ball with a velocity 2.2 m/s of mass 6 kg.

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 $5 \times 2 = 10$

Section - II

Note : 1. Answer all the Questions.

2. Each Question carries 2 Marks

5. Fill the following table.

S. No	Name	Molecular Mass	No. of Particles present in molar mass
1	Atomic Oxygen	16 gr	
2	Sodium	23 gr	1 10000 2011111
3	Sodium chloride	adi milano mi	6.02×10 ²³ of Sodium chloride
-4	Water	18 gr	side x 10 of Sodium chloride

6. Why do some of the animals like pigs toil in the mud during hot summer?

 A motor cyclist drives from A to B with uniform speed of 30km/hour and returns back with a speed of 20km/hour. Find the average speed.

8. What is valency? Write valency of hydrogen

9. Give reasons of the following

(i) Napthalene balls disappear in air completely with respect to time

(ii) We can get the smell of perfume even it is in several meters away,

Section - III

Note : 1. Answer all the Questions.

2. Each Question has internal choice

3. Each Question carries 4 Marks

10. a) What is Tyndal effect? Write any two applications of Tyndal effect.

(OR)

b) Write the postulates of Dalton's Atomic theory.

 $4 \times 4 = 16$

 a) Classify the following substances & fill the following table according to heading.

Ink, Soda water, brass, fog, blood, aerasol sprays fruit salad, black coffee, oil, water, boot polish, nail polish, strach solution, milk.

S.No	Solution	Suspension	Colloidal Solution
1	PAR	- 1.53	
2	Aller, 1	0401	11000 7.45° MB
3	na lengitarit	panineza losta	bi Diris the artiggen
4	es letter a pitter	ર ગઈ પ્રતંધવ કેર ગય	. When is the advisor

(OR)

b) Fill the following table

S. No	Physical Quality	Formula	Units
1	Force		Newton
2	Momentum	P = mv	
3	Impulse	-	Newton.sec
4	Acceleration	$\frac{v-u}{t}$	1

12. a) Observe the following figure. Write the answers for the following



- i) Write the chemicals to perform this activity
- ii) What is the reason performing NH_aCl ring near HCl?
- iii) Write the precautions to be taken while performing this activity
- iv) What do you observe by this activity?

(OR)

b) Explain the activity to observe action and reaction acting on two different objects.

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13. a) Using the following data. Draw displacement time graph

Time (Sec)	0	2	4	6	8	10	12	14	16
Displacement (m)	0	• 2	4	4	4	6	4	2	0

Using above graph, what is the average velocity in First "4" Seconds

(OR)

b) Draw the arrangement of apparatus of fractional distillation experiment. What is the advantage of using the fractionating column? U-54-B

Marks:

SUMMATIVE ASSESSMENT - I - 2018-2019 GENERAL SCIENCE - Paper - I

(Physical Science)

(English Medium)

PART - B

Class : IX

Read.No.

(Marks : 10)

Time : 30 Minutes

Academic standard		2	AS				A	IS 2		AS,	1	S.	AS	C 22 1	A	s.,	Total	Grade
Q.No.S	1	5	6	10 14	+27	2	7	28-29	3	11 30-	8	12	13	4	9	32-33	33	
Allotted Marks		1	16				4			6	100	6	4	1	4		40	
Total						1							i steri			15.4		

Name of the Student :

- Roll No .: -

Note :

- Choose the correct answers from the options given below and write them in CAPITAL letter.
- 2. Each Question carries $\frac{1}{2}$ mark

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

- 3. Rewrite and over writing questions are not valid.
 - 14. CNG stands for

A) Cooled Natural Gas

B) Cooled Normal Gas

C) Compressed Natural Gas

D) Compressed Normal Gas

15. During phase change of a substance at a constant pressure

A) Temperature decreases

B) Temperature increases

C) No change in temperature during the change

D) Does not depend on temperature.

[Turn Over

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16. Choose correct response fr	om the following	(
1) Non - Compressible	(i) Gas	a ser in	-
	() ii) Particle		
3) Constituents of Matter			
	iv) Liquid		
A) 1 - ii, 2 - iv, 3 - iii	B) 1 - iv, 2 - iii, 3 - i		
C) 1 - iii, 2 - i, 3 - ii	D) 1 - i, 2 - ii, 3 - iii		
17. Latent heat depends on	26 2 3	100	head
A) Attractive force among n	noleculor	C)
B) Kinetic energy of molect			
C) Potential energy of moles			
D) All the above	-412.5		
18. Geetha told that her body ter	C 11-1 0070 in 270 C		
Kelvin	inperature is 57 C. Value of f	hism	
A) 100 K B) 200 K	C) 250 K D) 310	()
	=/010		
 Phase change from solid to g called 	as directly and vice - versa is		
	CAPITAL MARY)
A) Evaporation	B) Boiling		
C) Sublimation	D) Solidification		
20. Solid carbon dioxide (CO2) is	scalled	()
A) Dry ice	B) Camphor		
C) Napthalene	D) Solid ice		
21. Which of the following is not	avector	1	,
A) Speed	B) Acceleration	na -	'
C) Velocity	D) Displacement		
22. Milk is	and	and a start	
A) Suspension B) Emulsion	00.011 000	8)
()	C) Colloid D) Jel		

 When we go through deep forest, the following effect can be observed

	A) Photo electric effect	B) Raman effect
	C) Tyndall effect	D) Comphion effect
4.	No. of molecules present in 18	8 grams of H ₂ O
	A) 6.02 x 10 ²²	B) 6.02 x 10 ²³
	C) 6.02 x 10 ³²	D) 6.02 x 10 ³⁵

 If valency of Mg is '+2' and valency of Sulphate (SO₄) is '-2', then the formula of compound formed by these

A) Mg ₂ SO ₄	B) Mg (SO ₄) ₂
C) MgSO4	D) Mg3(SO4)2

26. Homogeneous molecule from the following

A) H _o O	B) No	C) N ₂ O ₂	D) FeSC

- 27. The velocity of the car was measured by a traffic police through his radar gun at that instant. The gun measured
 - A) Instantaneous acceleration
 - B) Instantaneous velocity
 - C) Average acceleration
 - D) Average velocity
- Siva completed half revolution of circular path of radius *a*' unifs. Displacement of Siva is

A)'d' units B) '2a' units C) ma units D) 2 ma units

- 29. Acceleration of a person moving with constant velocity
 - A) Infinite B) Positive acceleration
 - C) Negative acceleration D) Zero

30. There must be following apparatus in chromotography laboratory activity

A) Thennometer B) Litmus paper C) Marker pen D) Kerosene

31. The main apparatus in at wood machine

A) Pulley

B) Scale (graduated in centimeters)

C) Barometer

D) Spring balance

32. I appreciate the phenomena of diffusion because

A) It is very important process for living things B) It is not support to survival of a acquatic animals C) It prevents dissolving of Oxygen from lungs into blood D) It prevents spreading of bacteria

33. Thanish starts at 8 am to Ananthapuram from Amaravathi and reaches at 6pm. The distance between Amaravathi and Ananthapurami is 500 k.m. Average velocity of . Thanish is

A) 0 km / hour C) 50 km / hour B) 40 km / hour D) 60 km / hour