ಕರ್ನಾಟಕ ಶಾಲಾ ಪರೀಕ್ಷೆ ಮತ್ತು ಮೌಲ್ಯನಿರ್ಣಯ ಮಂಡಳಿ

ಕೆಸ್‌ಕ್ಯೂಎಎಸಿ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು–560003.

KARNATAKA SCHOOL EXAMINATION AND ASSESSMENT BOARD

KSQAAC, Malleshwaram, Bengaluru–560003.

ಮೌಲ್ಯಾಂಕನ – ಮಾರ್ಚ್ 2024 – ಮಾದರಿ ಪ್ರಶ್ನೋತ್ತರ ಪತ್ರಿಕೆ
Assessment - March 2024 Model Paper

Class : 9	**Subject : Science** **Medium : English**	**Marks : 80** **Time : 3 Hours**

Information to be filled by the Student

Name of the Student : _____

Student SATS No : ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚   **Signature**
of the Student : _____

Information to be filled by the Room Invigilator

School DISE Code : ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚

School Name : _____

Cluster : _____ **Block :** _____ **District :** _____

School Type : Govt. ☐   **Aided** ☐   **Un-aided** ☐

(Put "✓" mark for applicable information)

Signature of the Room Invigilator : _____

Information to be filled by the Evaluator at the time of evaluation

Question Number	Obtained marks	Question Number	Obtained marks	Question Number	Obtained marks
1		14		27	
2		15		28	
3		16		29	
4		17		30	
5		18		31	
6		19		32	
7		20		33	
8		21		34	
9		22		35	
10		23		36	
11		24		37	
12		25		38	
13		26			
Total marks		**Total marks**		**Total marks**	
				Grand Total	

Total marks obtained (in words) : _____

Signature of the Evaluator : _____

(PART A - PHYSICS)

I. **Four alternatives are given for each of the following questions / incomplete statements.** **Choose the correct alternative and write the complete answer along with the correct option.** **[3 x 1 = 3]**

1. SI unit of force is,

   A. joule   B. ampere   C. newton   D. hertz

   Answer: ☐ _____

2. The value of acceleration due to gravity of earth is

   A. 8.8 ms^{-2} B. 9 ms^{-2} C. 9.8 ms^{-2} D. 10.8 ms²

   Answer: ☐ _____

3. The audible range of sound in human is

   A. 20Hz - 20000 Hz   B. 200Hz - 2000 Hz

   C. 20 KHz - 200KHz   D. 2Hz - 20 Hz

   Answer: ☐ _____
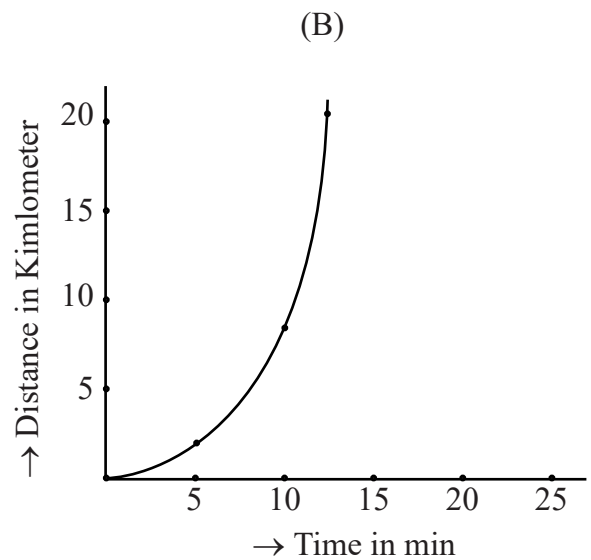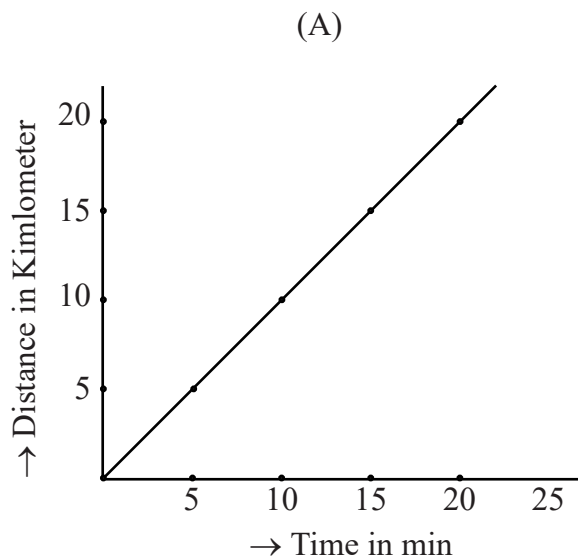
II. **Answer the following questions.** **[2 x 1 = 2]**

4. The weight of an object on earth is 36N. What would be its weight when measured on the surface of the moon?

   _____

   _____

   _____

   _____

5. Suggest a method to decrease reverberation.

_____

_____

_____

_____

_____

_____

III. Answer the following questions.   **[3 x 2 = 6]**

6. The Motion of two motor vehicles, are given in the graphs A and B. Which graph is showing the reach of 20 km in shortest time and why?

(A)   (B)

_____

_____

_____

_____

_____

_____

[Turn over

7. Define Kinetic energy and Potential energy.

_____

_____

_____

_____

_____

8. What is an echo? What is the minimum distance to hear an echo?

_____

_____

_____

IV. Answer the following questions. [4 x 3 = 12]

9. Draw or sketch a distance-time graph of a moving bus with the help of following data.

   a. Bus travels in a uniform motion.

   b. It reaches a distance of 20 km in 40 minutes.

   c. It takes 80 minutes to travel a distance of 40 km.

10. Car falls of a ledge and drops to the ground in 1 second. Let $g =$ be 10 ms^{-2}

   a. What is its speed on striking the ground?

   b. What is its average speed during the one second?

   c. How high is the ledge from the ground?

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

11. The ship of a nation drowned in a deep sea. To detect the sunken ship another ship was sent to that place. Then,

   1. Name the device used to detect the sunken ship.

_____

_____

2. Write the Abbreviation of that device.

_____

_____

3. How it works? Explain.

_____

_____

_____

_____

_____

_____

_____

12. An object of Mass 15 kg is at a certain height above the ground. If the potential energy of the object in 450 J find the height at which the object is with respect to the ground $(g = 10ms^2)$.

_____

_____

_____

_____

_____

_____

_____

_____

_____

V. Answer the following questions. [1 x 4 = 4]

13. State Newtons 3 laws of motion and give an example for 3rd law of Motion.

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

(PART B - CHEMISTRY)

VI. Four alternatives are given for each of the following questions / incomplete statements. Choose the correct alternative and write the complete answer along with the correct option. [4 x 1 = 4]

14. Compound among the following is,

    A. Hydrogen   B. Oxygen   C. Water   D. Gold.

Answer: ☐ _____

15. This is the major gaseous component of the atmosphere (air).

   A. Oxygen   B. Carbon dioxide

   C. Nitrogen   D. Argon

Answer: ☐ _____

VII. Answer the following questions.   [4 x 1 = 4]

16. Wearing Cotton clothes during summer is good. Why?

_____

_____

_____

_____

17. Suspension is unstable. Why?

_____

_____

_____

_____

18. What are isotopes?

_____

_____

_____

_____

19. How acid rain is formed?

_____

_____

_____

_____

VIII.Answer the following questions. [3 x 2 = 6]

20. What is melting point? Mention the melting point of ice.

_____

_____

_____

_____

21. Explain the proposals of Thomson's model of an atom.

_____

_____

_____

_____

_____

_____

22. Part of oxygen cycle in the nature is given below. Which processes are represented by 1, 2, 3 and 4.

_____

_____

_____

_____

_____

_____
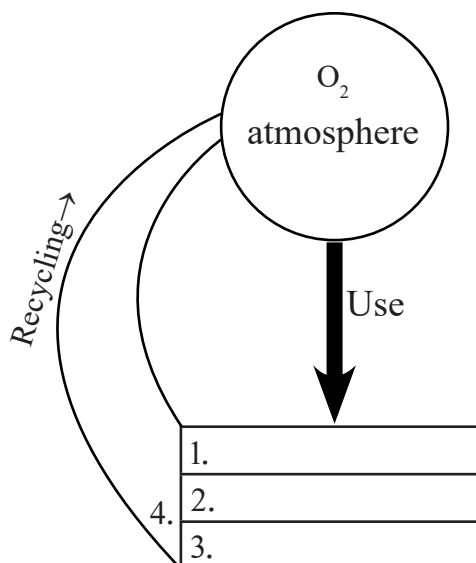
IX. Answer the following questions.   **[3 x 3 = 9]**

23. Draw the arrangements of apparatus showing the sublimation of ammonium chloride.

24. Observe the boiling points of two liquids of a mixture given in below table.

A	78°c
B	100°c

Which method do you suggest to seperate these liquid and why ?

_____

_____

_____

_____

_____

25. The electronic configuration of an element is $1S^2, 2S^2 2P^6$. Write the schematic diagram its atomic structure and name the element. How many electrons are present in K and L shell ?

_____

_____

_____

_____

_____

X. Answer the following questions. [1 x 4 = 4]

26. Find out the molecular mass of calcium chloride and Potassium carbonate using given data (atomic masses Ca=40, C=12 CL-35.5, 0=16 K = 39).

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

(PART C - BIOLOGY)

VI. Four alternatives are given for each of the following questions / incomplete statements. Choose the correct alternative and write the complete answer along with the correct option. **[3 x 1 = 3]**

27. Cell organell called Powerhouse of the cell is

    A. Mitochondria   B. Plastids   C. Vacuole   D. Lysosome

_____

_____

28. This is an example for air borne disease.

    A. Malaria   B. Cold   C. Rabies   D. Leprosy

_____

_____

29. The animals reared for the purpose of milk production.

    A. Sheep & Hen   B. Cow and Buffalo

    C. Goat & Duck   D. Cow & Fish

_____

_____

XII. Answer the following questions. **[2 x 1 = 2]**

30. Write any two situations of spreading AIDS virus.

_____

_____

_____

_____

[Turn over

31. Name the local variety of bees used for honey production

_____

_____

_____

XIII.Answer the following questions. [2 x 2 = 4]

32. Draw the diagram Showing the longitudinal section of phloem tissue and label the following parts

   a) Sieve plate   b) companion cells.

33. Draw the diagram of Amoeba and label the following parts

    A. Pseudopodia   B. Contratile Vacuole

XIV.Answer the following questions.   **[3 x 2 = 6]**

34. Draw the diagram of neuron and label the following Parts

    A. Dendrite   B. Axon

35. a) Common cold is called acute disease but elephantiasis is chronic. Why?

b) High blood pressure is non-infectious disease. Why?

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

XV. Answer the following questions.   **[2 x 4 = 8]**

36. Write the difference between manures and fertilizers. Write any two disadvantages of using fertilizers.

_____

_____

_____

_____

_____

_____

_____

_____

_____

37. a) "Circulatory system of cockroach is not well developed"- Justify.

b) Having both gills and lungs as respiratory organ is advantageous to the frog. How?

_____

_____

_____

_____

_____

_____

XVI. Answer the following questions. [1 x 5 = 5]

38. a) Write any three differences between plant cell and animal cell.

b) Some dried raisins are put in plain water for some time and then in concentrated sugar solution. What are the changes you observe?

_____

_____

_____

_____

_____

_____

_____

_____

_____