

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

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Name of the School : \_\_\_\_\_ Date : \_\_\_\_\_

Class : \_\_\_\_\_ Subject: Science Time: 60 Min

**Instructions to the Candidate**

1. Each question carries 1 mark. There is no negative marking.
2. Separate Optical Mark Reader (OMR) Answer Sheet is supplied to you along with question paper booklet.
3. Read the questions carefully and fill in the circle corresponding to your answer. Fill in the circle Completely.
4. Rough work should be done only in the space provided in the Question Paper Booklet.
5. Return the OMR Answer sheet to the invigilator before leaving the examination hall.
6. You can carry the question paper with you after completing the examination.
7. Once you enter the examination hall, you are not permitted to leave till the end of the examination.

**VIII Class Science**

1. If  $\mu_S, \mu_K$  and  $\mu_R$  are the coefficients of limiting kinetic and rolling frictions between two given surfaces. Arrange them in ascending order  
(A)  $\mu_R, \mu_S, \mu_K$       (B)  $\mu_K, \mu_R, \mu_S$       (C)  $\mu_S, \mu_K, \mu_R$       (D)  $\mu_R, \mu_K, \mu_S$
2. If a man is walking, direction of friction is  
(A) Opposite to direction of motion      (B) same as that of direction of motion  
(C) perpendicular to that of direction of motion  
(D)  $45^\circ$  to the direction of motion
3. A vehicle of mass  $M$  is moving on a rough horizontal road with a momentum  $P$ . If the coefficient of friction between the tyres and the road is  $\mu$ , then the stopping distance is  
(A)  $\frac{p}{2\mu Mg}$       (B)  $\frac{p^2}{2\mu Mg}$       (C)  $\frac{p^2}{2\mu M^2 g}$       (D) Zero
4. What kind of substances are known as lubricants  
(A) Increase friction      (B) decrease friction  
(C) increase or decrease friction      (D) none of these
5. Electroplating is based on  
(A) heating effect of electricity      (B) chemical effect of electricity  
(C) physical effect of electricity      (D) magnetic effect of electricity

6. When electrodes are immersed in water and electricity passed, the bubbles formed on the positive terminal is actually \_\_\_\_\_ gas  
 (A) hydrogen (B) carbon dioxide (C) oxygen (D) nitrogen
7. A plane mirror produces a magnification of  
 (A) -1 (B) +1 (C) zero (D) between 0 and  $+\infty$
8. The time period of an electromagnetic wave is  $10^{-15}$  sec. What is the frequency of wave in hertz?  
 (A)  $10^{15}$  (B)  $10^5$  (C)  $10^{-15}$  (D) 10
9. Sound cannot travel through  
 (A) solids (B) liquids (C) vacuum (D) gases
10. Earthquakes can cause  
 (A) flood (B) land slide (C) tsunami (D) all of these
11. Liquid pressure of a point in a liquid does not depend on the  
 (A) Density of liquid  
 (B) shape of the vessel in which the liquid is kept  
 (C) depth of the point from the surface  
 (D) acceleration due to gravity
12. One Pascal is the pressure generated by  
 (A) Force of 1N on  $1\text{cm}^2$  (B) Force of 1 dyne on  $1\text{m}^2$   
 (C) Force of 1N on  $1\text{m}^2$  (D) Force of 1N on  $1000\text{cm}^2$
13. If the angle of deviation after reflection of a light ray is 'd' then find  
 (1) angle of incidence (2) angle of reflection  
 (3) angle of glancing  
 (A)  $i = \frac{180-d}{2}$ ,  $r = \frac{180-d}{2}$ ,  $\frac{d}{2}$  (B)  $i = \frac{180+d}{2}$ ,  $r = \frac{180-d}{2}$ ,  $\frac{d}{2}$   
 (C)  $i = \frac{180-d}{2}$ ,  $r = \frac{150-d}{2}$ ,  $\frac{d}{2}$  (D)  $i = \frac{180-d}{2}$ ,  $r = \frac{180-d}{2}$ ,  $\frac{d}{4}$
14. Keeping the incident ray constant, if a plane mirror is rotated through an angle  $\theta$ , about an axis lying in its plane, then the reflected ray turns through can angle \_\_\_\_\_  
 (A)  $\theta$  (B)  $2\theta$  (C)  $3\theta$  (D)  $4\theta$
15. The relation between u, v and R for a spherical mirror is  
 (A)  $R = \frac{2}{u+v}$  (B)  $R = \frac{2u+v}{uv}$  (C)  $R = \frac{2uv}{u+v}$  (D) None of these
16. Which of the following does not belong to the family of solar system?  
 (A) Planet (B) Galaxy (C) Meteor (D) comet

17. Which star is nearest to earth?  
(A) pole star (B) orion (C) cassiopeia (D) sun
18. Which one of the following is not force?  
(A) Impulse (B) Tension (C) Thrust (D) weight
19. Which of the following demonstrates the law of reflection?  
(A) (B) (C) (D)
20. Which of them has highest amplitude?  
(A) (B) (C) (D)
21. Secondary sexual characters in man are  
(I) Formation of Adam's apple  
(II) Maturation of testis  
(III) Formation of sperm  
(IV) Joining of muscles  
(V) Axial hair  
Choose the correct option  
(A) I, IV & V (B) I, II, III (C) II only (D) I, II, IV, V
22. Identify the hormones secreted by ovary  
(A) Progesterone (B) Testosterone  
(C) Oestrogen (D) Both (A) & (C)
23. Difference between national park and sanctuary is  
(I) In national parks animals are restricted to a closed zone  
(II) In national park human activity is allowed.  
(III) In sanctuaries organisms are conserved in their natural habitat  
(IV) Human activity limited in sanctuaries.  
Identify correct option:  
(A) All except IV (B) All except I (C) All except (D) All I to IV
24. Planting new trees is called  
(A) Species (B) deforestation (C) Reforestation (D) Agriculture
25. Which of the following is called the energy currency of the cell  
(A) Endoplasmic reticulum (B) Oxygen  
(C) ATP (D) Mitochondria
26. First living cell was identified by  
(A) Robert hooke (B) Robert brown  
(C) Leewen hock (D) Rudolf virchow

27. Identify the wrong pair between disease and causative organism  
 (A) Chicken pox – Varicella virus      (B) Dengue – Aedes mosquito  
 (C) Sleeping sickness – Trypanosoma   (D) Malaria – Plasmodium

28. Match the vaccine with disease that it prevents.

Column – I (Vaccine)		Column – II (Disease)	
(1)	BCG	(a)	Tuberculosis
(2)	DPT	(b)	Diphtheria
(3)	MMR	(c)	Measles
(4)	Varicella Zoaster	(d)	Chicken pox

- (A) 1→a, 2→c, 3→b, 4→d      (B) 1→b, 2→a, 3→c, 4→d  
 (C) 1→a, 2→b, 3→d, 4→c      (D) 1→a, 2→b, 3→c, 4→d
29. Which of the following method is used for food preservation  
 (A) Fermentation      (B) Vaccination  
 (C) Pasteurization      (D) All the above
30. \_\_\_\_\_ is not a modern method of irrigation  
 (A) Chain      (B) Sprinkler      (C) drip      (D) Both (A) & (C)

31. Identify the product based on the given features.

I. It is a man-made product.

II. It has a linear arrangement of monomer units.

III. It is used for making goods like toys, combs, containers, etc.

A. Lycra      B. Rayon      C. Thermosetting plastic      D. Thermoplastic

32. A polymer is a large molecule composed of many repeated units. Which is a polymer among the following?

A. Ether      B. Cellulose      C. Amino acid      D. Ester

33. Modern non-stick cookware and the flat end of an electric iron has a coating of a polymer. Identify the name of the polymer.

A. PVC      B. Rayon      C. Teflon      D. Polyester

34. Assertion: Acrylic fibres are used in making socks and shawls.

Reason: Acrylic fibres are a replacement of woolen fibres.

A. Both assertion and reason are true and the reason is the correct explanation of assertion.

B. Both assertion and reason are true but the reason is not correct explanation of the assertion.

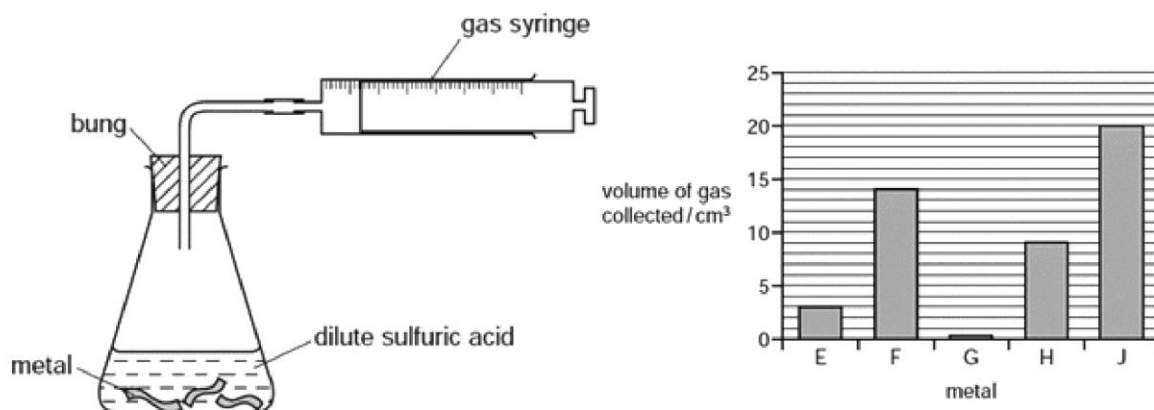
C. The assertion is true but the reason is false.

D. The assertion is false but the reason is true.

35. Polyethylene terephthalate belongs to this class of synthetic polymer?

A. Nylon      B. Polyolefin      C. Polyester      D. None of these

36. Firefighters' uniform is coated with a plastic that is fire resistant. Identify the plastic from the given options.  
 A. Teflon                      B. Melamine                      C. PET                      D. Polyester
37. Samples of five different metals, E, F, G, H and J were reacted with dilute sulfuric acid using the apparatus shown. The volume of hydrogen gas collected after one minute was measured. The results are shown on the bar chart.



What is the order of reactivity of the metals (most reactive first)?

- A. E, F, G, H, J                      B. G, E, H, F, J                      C. J, F, H, E, G                      D. J, H, G, F, E
38. Which type of fire extinguisher is used to extinguish fire caused by burning oil and petrol?  
 A. Foam type                      B. Water type                      C. Soda acid type                      D. CCl<sub>4</sub> type
39. The statements describe how different metals react with cold water.
- Calcium sinks, fizzing and releasing a steady stream of hydrogen.
  - Copper does not react.
  - Sodium floats, fizzing and rapidly releasing hydrogen.
  - Zinc does not react but does react with steam, releasing hydrogen.
- Using the information, where should hydrogen be placed in the reactivity series?
- A. below copper                      B. between sodium and calcium  
 C. between calcium and zinc                      D. between zinc and copper
40. Metal X lies between zinc and iron in the reactivity series.  
 Which statements about metal X are correct?
1. It reacts with steam to produce hydrogen gas.
  2. It does not react with steam but will produce hydrogen with dilute acid.
  3. The metal can be obtained from its oxide by heating strongly with charcoal.
  4. The metal oxide cannot be reduced using carbon
- A. 1 and 3                      B. 1 and 4                      C. 2 and 3                      D. 2 and 4