



SIMS[®]

(SCHOLARS INTEGRAL MATHS & SCIENCE OLYMPIADS-HYD)



BIGGEST STATE LEVEL OLYMPIAD : 2025-26

SISO QUESTION PAPER : STAGE - I

MAX. MARKS : 90

TIME: 60 MIN.

NAME OF THE STUDENT :

HALL TICKET NUMBER :

NAME OF THE SCHOOL :

INSTRUCTIONS TO THE STUDENTS :

- ☞ Write your Hall ticket number immediately after receiving the question paper booklet.
- ☞ Darken the answers only on the OMR Sheet.
- ☞ Read the instructions given on the OMR sheet and follow them accordingly.
- ☞ Don't write any thing on the question paper booklet.
- ☞ To do rough work, use only the white paper provided in the examination hall.
- ☞ **No negative marks.**
- ☞ This question paper booklet consists of 30 questions.
- ☞ **PHYSICS (Q.No-1 to 10) :**
 - First 7 questions (1 to 7) are single correct answer type.
 - Each question carries THREE marks.
 - Next 3 questions (8 to 10) are one or more than one correct answer type. Each question carries THREE marks.
- ☞ **CHEMISTRY (Q.No-11 to 20) :**
 - First 7 questions (11 to 17) are single correct answer type.
 - Each question carries THREE marks.
 - Next 3 questions (18 to 20) are one or more than one correct answer type. Each question carries THREE marks.

☞ **BIOLOGY (Q.No-21 to 30) :**

All questions (21 to 30) are single correct answer type.

Each question carries THREE marks.

☞ Students are not allowed to use any Mathematical and Physical tables (OR) any other electronic devices.

☞ After completion of the examination hand over the OMR answer sheet to the invigilator without fail. You can retain the question paper with you.

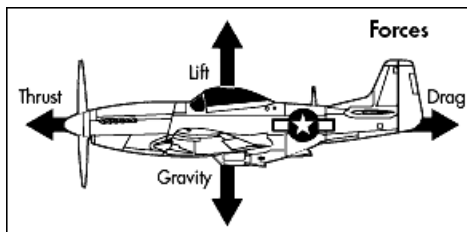
☞ Students should not leave the examination hall before the last bell rings.

☞ To know your results log in to our website www.simsolympiads.com.

☞ Stage-I branch result copy will be sent to the school mail id. Please contact your principal to know your result.

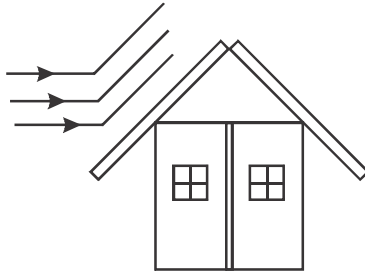
Single Correct Answer Type :**7 × 3 = 21M**

1. The diagram below shows the four main forces acting on an air craft. The plane is accelerating forward and at the same time increasing in altitude at a constant rate. Which of the following relationships between the forces is true.



- 1) Lift from wings = Weight; Engine thrust = Air resistance
- 2) Lift from wings = Weight; Engine thrust > Air resistance
- 3) Lift from wings > Weight; Engine thrust = Air resistance
- 4) Lift from wings > Weight; Engine thrust > Air resistance

2. **Force remaining constant, if the mass of body increases, its acceleration is likely to**
- 1) Increased
 - 2) Decreases
 - 3) Remains same
 - 4) Some times increases and some times decreases
3. **What will happen to the thatched roof on the house if a strong wind blew in the direction shown in figure**

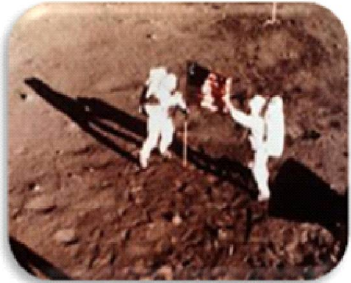


- 1) The roof moves in the direction of wind
 - 2) The roof moves in the opposite direction of wind
 - 3) The roof will be lifted up
 - 4) The roof will fall down
4. **At what temperature the velocity of sound will be double of its value at 0°C ?**
- 1) 819°C
 - 2) 918°C
 - 3) 198°C
 - 4) 819 K
5. **A foot ball player kicks foot ball to another player of his team who kicks it toward goal. The goal keeper of opposite team collects the football and kicks it towards a player of his own team. The momentum of foot ball changes**
- 1) One time
 - 2) Two times
 - 3) Three times
 - 4) Four times

6. Two vehicles of same model and structure 'P' and 'Q' are moving on the same road. The area of contact of the tyres of the vehicles 'P' is twice that of 'Q'. Then the frictional force between the tyres of 'A' is

- 1) Depends on the H.P of the Engines
- 2) Same that of 'Q'
- 3) Half that of 'Q'
- 4) Twice that of 'Q'

7. The picture shows Neil Armstrong and Buzz Aldrin on moon. Neil was getting irritated because he was trying to communicate something to Buzz but was not getting any response from him. Buzz asked Neil to do something after which they were able to communicate. What did Buzz ask Neil to do?

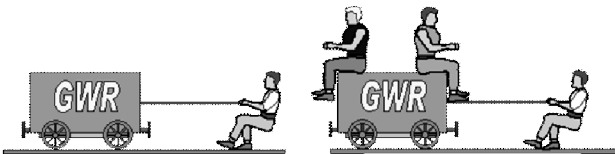


- 1) Remove the helmet and talk
- 2) Turn on the device on his helmet which converts sound waves to radio waves
- 3) Talk in sign language
- 4) Come closer and talk

Multi Correct Answer Type :

3 × 3 = 9M

8. What does the following pictures reveal?



- 1) Larger mass - smaller acceleration
- 2) Smaller mass - larger acceleration
- 3) Smaller the force - bigger the change of speed
- 4) Bigger the force - bigger the change of speed

9. What is the cause of streaks of bright light and sound produced during lighting?
- 1) Meeting of positive charges
 - 2) Meeting of negative charges
 - 3) Meeting of a positive and negative charge
 - 4) Meeting of a negative and positive charge
10. Which of the following statements are correct for action and reaction forces
- 1) These acts on two different bodies
 - 2) These are equal in magnitude but opposite in direction
 - 3) These act on a single body
 - 4) These are necessary to explain reactions third law

Single Correct Answer Type : _____

7 × 3 = 21M

11. Match the following column - I with column - II and choose the correct option .

Column - I

Column - II

- | | |
|---|--------------|
| i) Fibres which resemble wool | a) Nylon |
| ii) Fibre also known as regenerated fibre | b) Synthetic |
| iii) Parachutes are made from this fibre | c) Rayon |
| iv) Fibres made by human beings | d) Acrylon |

- 1) i – c, ii – d, iii – b, iv – a 2) i – d, ii – c, iii – a, iv – b
 3) i – a, ii – b, iii – c, iv – d 4) i – d, ii – c, iii – b, iv – a

12. The symbol observed on most of the soft drink bottles and juice bottles is

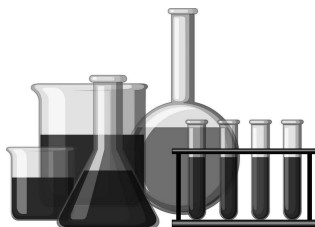
- 1)  2)  3)  4) 

13. In the Modern periodic table most of the elements are :

1 H																	2 He						
3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne						
11 Na	12 Mg																	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar
19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr						
37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe						
55 Cs	56 Ba	57 La	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn						
87 Fr	88 Ra	89 Ac	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Nh	114 Fl	115 Mc	116 Lv	117 Ts	118 Og						
119 Uue																							
58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu										
90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr										

- 1) Metals
- 2) Non Metals
- 3) Noble gases
- 4) Metalloids

14. The non metal whose chemical behaviour is most like that of typical metal is ____.



- 1) Carbon
- 2) Mercury
- 3) Phosphorus
- 4) Hydrogen

15. The list which contains only non metals are :

- 1) Al, Hg, Fe, Si and F
- 2) Be, B, C, N and P
- 3) C, N, F, S and O
- 4) N, Fe, C, Al and Cl

16. What are the CORRET statements about states of matter?

- A. Liquids change shape based on their container
- B. Solids contact with each other, vibrating in place but not moving
- C. Gases expand or contract to fill the available space
- D. Physical conditions like temperature and pressure does not affect state of matter.

1) A, B and C

2) A and C

2) A and B

3) Only D

17. When you keep a glass of cold water on the table, you observe some drop of water outside the glass. This phenomenon can be explained as ?

- 1) Vaporisation of atmospheric moisture
- 2) Condensation of atmospheric moisture
- 3) Freezing of atmospheric moisture
- 4) Melting of atmospheric moisture



Multi Correct Answer Type :

3 × 3 = 9M

18. The following are the correct reasons for the more usage of synthetic fibres now a days?

- 1) They decompose easily than natural fibres
- 2) They are wrinkle free and donot shrink
- 3) They are cheaper than natural fibres
- 4) They can be prepared in the laboratory easily

19. Which of the following statements are true about sodium and silver ?

- 1) Both are highly reactive 2) Both are metals
 3) Both are liquids 4) Both are good conductors

20. Preethi mixed common salt in to water unfortunately. How can she recover salt from that solution?

- 1) By sedimentation 2) By evaporation
 3) By distillation 4) By sublimation

Single Correct Answer Type : .

10 × 3 = 30M

21. Match the following and select the correct option

Column - I

Column - II

a) Kawal santuary

p) Panther

b) Pakal santuary

q) Sea gulls

c) Kolleru santuary

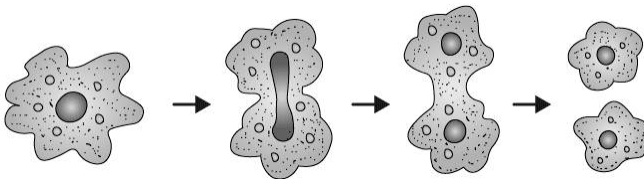
r) Cheetah

d) Koringa santuary

s) Herons

- 1) a → q, b → p, c → s, d → r 2) a → r, b → s, c → p, d → q
 3) a → r, b → p, c → s, d → q 4) a → s, b → r, c → q, d → p

22. The process represented in the diagram given below is :



- 1) Formation of buds in amoeba
 2) Binary fission in amoeba
 3) Regeneration of amoeba
 4) Formation of spores in amoeba

23. Arrange the following in sequence regard scientific method of study.

i) Hypothesis

ii) Identifying problem

iii) Observation and experimentation

iv) New data

v) Conclusion

1) i, ii, iii & v

2) ii, iv, iii, i & v

3) ii, i, iii, iv & v

4) ii, i, iv, iii & v

24. The cloning experiments that produced “DOLLY” concluded that -

1) The determination of a cell is irreversible.

2) Animal cells become irreversibly committed to a developmental path after the first few cell divisions.

3) The egg and donated nucleus must be at the same stage in the cell cycle to progress to further development.

4) Somatic cells taken from two individuals can fuse to form a single individual.

25. Match the following and select the CORRECT option?

Column A

Column B

a) Red rot

p) Bacteria

b) Tikka

q) Virus

c) Swine flue

r) Fungi

d) Malaria

s) Algae

t) Protozoa

1) a-r, b-r, c-q, d-t

2) a-r, b-s, c-q, d-t

3) a-r, b-r, c-t, d-q

4) a-t, b-q, c-r, d-s

26. Which of the following statements is / are FALSE ?

- (i) Bori wildlife sanctuary is situated at Pachmarhi biosphere reserve.
- (ii) Satpura National park is the first reserve forest of India.
- (iii) Red data book is the source book which keeps a record of all the endangered animals and plants.
- (iv) There are different red data books for plants, animals and other species.

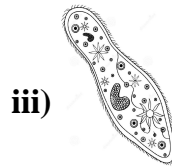
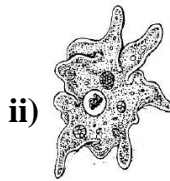
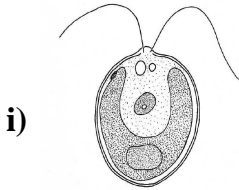
1) (i) & (iii)

2) (iv) only

3) (i), (ii), (iii) & (iv)

4) (i), (ii) & (iv)

27. Which of the following is CORRECT Statement about the given figures ?

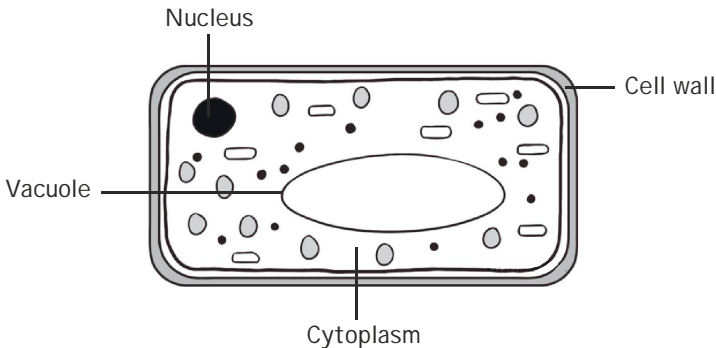


- 1) Three are Unicellular and Eukaryotic organisms
- 2) Three are Unicellular and Prokaryotic organisms
- 3) Only (i) is Prokaryotic and (ii)& (iii) are Eukaryotic organisms
- 4) Only (i) is Eukaryotic and (ii) & (iii) are Prokaryotic organisms

28. **CORRECT** the given statements by replacing the **underlined words** and select the correct option.

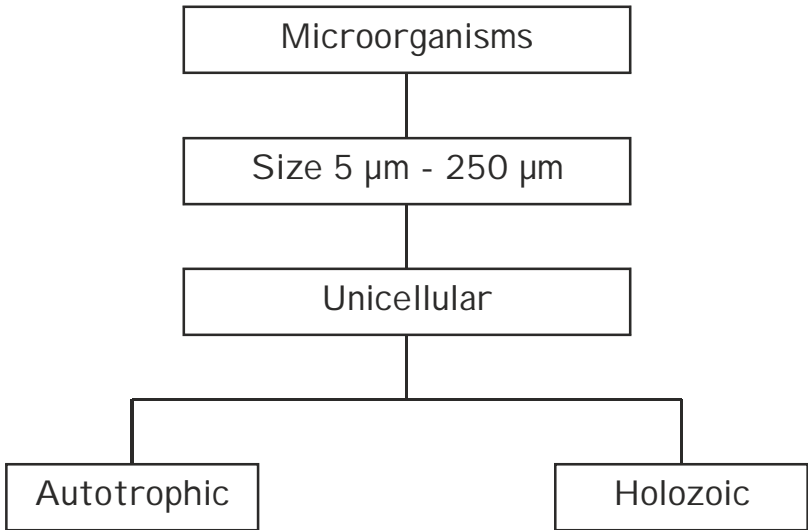
- i) The viscous fluid present in the nucleus is called **cytoplasm**.
 - ii) **Vacuoles** are rod shaped structures which oxidize food to provide energy.
 - iii) **Mitochondria** contain green pigment chlorophyll and take part in Photosynthesis.
 - iv) **Lysosomes** take part in synthesis of proteins.
- 1) i - Nucleoplasm, ii - Lysosomes, iii - Plastids, iv - Centrosome
 - 2) i - Protoplasm, ii - Ribosomes, iii - Centrosome, iv - Golgibodies
 - 3) i - Nucleoplasm, ii - Mitochondria, iii - Chloroplasts, iv - Ribosomes
 - 4) i - Protoplasm, ii - Plastids, iii - Endoplasmic reticulum, iv - Ribosomes

29. **The cell shown below cannot be an animal cell because it has**



- 1) A large vacuole
- 2) A nucleus
- 3) A cell wall
- 4) Both (1) & (3)

30. Read the classification of microorganisms.



Eg : Euglena

What is Q ?

1) Spirogyra

2) Mucor

3) Mushroom 4) Paramecium

Eg : Q

❖❖❖ ALL THE BEST ❖❖❖