

SMART SOCIETY INTERNATIONAL SCIENCE OLYMPIAD (SSISO)



Organized by

Department of Basic Science and Humanities

INSTITUTE OF ENGINEERING & MANAGEMENT,

IEM-UEM GROUP and SMART SOCIETY, USA

TOTAL QUESTIONS: 35

DURATION: 1 HOUR

INSTRUCTIONS TO THE CANDIDATES:

1. The question booklet is divided into 3 sections.
Section A – Logical Reasoning (10 Questions)
Section B - Science (10 Questions)
Section C – Advanced Science (15 Questions)
2. In section A, each question carries 2 marks. In Section B, each question carries 2 marks. In section C, each question carries 4 marks.
3. All questions are compulsory. There is no negative marking. Use of a calculator is not permitted.
4. There is only one correct answer.
5. To mark your choice of correct answer, tick it by using an HB pencil.
6. Submit the question booklet to the invigilator.
7. Rough work should be done in the blank space provided at the end of the booklet.
8. Please fill in your personal details in the space provided below.

NAME:

SCHOOL NAME:

CONTACT DETAILS OF GUARDIAN:

SECTION A

LOGICAL REASONING

- How many days are between January 1st and December 31st in leap year?
a) 365 b) 366
c) 364 d) 363
- What is the next day after yesterday?
a) Today b) Tomorrow
c) Yesterday d) Day
- Complete the pattern: DEF, GHI, MNO,
a) POR b) ACB
c) SRT d) PQR
- Identify the next number : 1,4,9,16,25,
a) 30 b) 40
c) 45 d) 36
- If each letter is shifted 1 place backward decode:
BYCX
a) AZBY b) ACDX
c) AXBW d) WRYT
- If 1=Red,3=Yellow,2=Blue,: decode -- 123
a) Blue Yellow Red
b) Red Yellow Blue
c) Yellow Blue Red
d) Red Blue Yellow
- Complete the sequence:X,V,T,R,_
a) Q b) P
c) S d) N

- Identify the next number : 1,4,9,16,25,
a) 30 b) 40
c) 45 d) 36
- If you are facing north, what direction is to your left?
a) East b) West
c) North d) South
- If a calendar starts on Sunday what day will 14th be ?
a) Sunday b) Saturday
c) Monday d) Wednesday

SECTION B

SCIENCE

- What type of plants grow, bloom, and die in one season?
a) Annuals b) Perennials
c) Deciduous d) Biennials
- Which part of the digestive system is responsible for absorbing nutrients?
a) Stomach b) Liver
c) Small intestine d) Large intestine
- Which of the following plants has no true roots?
a) Fern b) Moss
c) Bamboo d) Cactus
- What is matter made up of?
a) Atoms b) Cells
c) Heat d) Air
- What happens when you mix water and oil?
a) They form a solution
b) They mix completely
c) They form layers
d) They evaporate

16. What is the primary source of energy for humans?
- a) Water b) Sunlight
c) Food d) Air
17. Which of these is an example of a balanced diet?
- a) Only fruits
b) Only proteins
c) A mix of carbohydrates, proteins, fats, and vitamins
d) Only junk food
18. Which of these is a major cause of air pollution?
- a) Planting trees
b) Using electric cars
c) Burning fossil fuels
d) Riding bicycles
19. Which of the following is a renewable resource?
- a) Coal b) Oil
c) Wind energy d) Natural gas
20. Which of the following changes can be reversed?
- a) Burning paper b) Melting ice
c) Cooking food d) Rusting iron
22. How do some animals adapt to survive in cold environments?
- a) By growing bright colors
b) By hibernating
c) By flying south
d) By eating more
23. What adaptation helps desert plants conserve water?
- a) Large leaves b) Thick stems
c) Shallow roots d) Bright flowers
24. What feature helps birds fly?
- a) Sharp beaks b) Hollow bones
c) Strong legs d) Colourful feathers
25. Why is fiber important in our diet?
- a) It provides energy
b) It helps digestion
c) It makes food taste better
d) It is a source of protein
26. Why is clean water essential for humans?
- a) For cooking only
b) For washing hands
c) For survival and hygiene
d) For swimming

SECTION C

ADVANCED SCIENCE

21. If a plant is exposed to light from only one side, how will it grow?
- a) Straight up
b) Towards the light
c) Away from the light
d) In circles
27. Why is it important to have a balanced diet?
- a) To eat more junk food
b) To get all necessary nutrients for growth
c) To save money
d) To eat less
28. Which of the following materials is a good conductor of heat?
- a) Wood b) Plastic
c) Metal d) Glass

29. What is the main characteristic of gases?
- a) They have a fixed shape
 - b) They fill the container they are in
 - c) They are always visible
 - d) They have a definite volume
30. Which of the following is an example of work being done?
- a) Lifting a box
 - b) Holding a book still
 - c) Sitting on a chair
 - d) Watching a movie
31. Why are wetlands important for the environment?
- a) They provide land for construction
 - b) They help control flooding
 - c) They have no significant value
 - d) They are difficult to access
32. Why do we see different phases of the Moon?
- a) Because the Moon changes shape
 - b) Because of the Earth's position relative to the Moon and Sun
 - c) Because the Moon is rotating
 - d) Because of weather changes
33. How do migration patterns benefit animals?
- a) They help animals avoid competition
 - b) They allow access to food and better climates
 - c) They increase the chance of reproduction
 - d) All of the above
34. What happens to the particles of a substance when it changes from solid to liquid?
- a) They move closer together
 - b) They move farther apart
 - c) They remain still
 - d) They disappear
35. How does the body use carbohydrates from food?
- a) To build muscles
 - b) To provide immediate energy
 - c) To produce hormones
 - d) To store fat