

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

1. What are the missing numbers in the pattern? 34, _____, 42, 46, _____, 54

- a) 35, 46 b) 36, 47
c) 38, 50 d) 40, 52

2. Identify the relation between the given pair and find the missing term. E:5 :: D:

- a) 1 b) 2
c) 3 d) 4

3. Find the odd one out: A, E, I, G

- a) A b) E
c) I d) G

4. If the alphabets are written backwards, which letter would appear in the 25th position?

- a) Z b) Y
c) A d) B

5. What do we commonly use to measure the length of a cricket pitch?

- a) Kilogram b) Centimeter
c) Litre d) Yard

6. Which letter occurs twice in POTATO as it does in TICKET?

- a) E b) O
c) T d) S

7. Fill in the blanks with the correct option shown below.



- a) Thankful b) Sorry
c) Happy d) Pleased

8. Direction: Study the table and answer the question.

Letters	A	B	C	D	E	F	G	H	I	J	K	L	M	N
Codes	2	m	x	q	9	e	f	o	d	l	6	r	4	t

Find the code for 'GAME'.

- a) fm49 b) f249
c) m249 d) f24e

9. If in a certain code 'POND' is written as 'OPDN' then in the same code how 'PARK' is written?

- a) APKR b) APRK
c) KRAP d) KRPA

10. If today is Wednesday and Garima's birthday is on the 3rd day after today, then on which day she will celebrate her birthday?

- a) Saturday b) Sunday
c) Monday d) Friday

SECTION B

SCIENCE

11. Milk is a complete food because it contains

- a) Proteins
b) Fats
c) Vitamins and minerals
d) All of these

12. Select the correct statement.

- a) Roughage present in vegetables and fruits must be discarded
b) Overcooking decreases the nutritive value of food

- c) Preserved food has conditions suitable for growth of microbes.
- d) Growing children need more fats to build strong muscles.
13. Clothes do not protect us from:
- a) Heat b) Cold
- c) Blood pressure d) Dust and germs
14. Silk and woollen clothes are often damaged by:
- a) flies b) insects
- c) bacteria d) animals
15. Which of the following is NOT true about the vehicle in the picture?




- a) It runs on diesel.
- b) It runs on roads.
- c) It runs on water.
- d) It helps to carry heavy loads in the fields.
16. Two means of transport in water are _____ and _____.
- a) Ship and helicopter
- b) Submarine and boat
- c) Metro train and boat
- d) Ship and bullock car
17. Which of the following is/are audio visual mode of communication?
- a) Television b) Computer
- c) Radio d) Both A and B

18. Number of bones in human body are:
- a) 204 b) 270
- c) 206 d) None of these
19. _____ are the smallest unit of our body.
- a) Tissues b) Cells
- c) Muscles d) Organs
20. Which organ of your body helps you to take in oxygen and gives out carbon dioxide?
- a) Lungs b) Kidneys
- c) Stomach d) Teeth

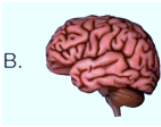
SECTION C

ACHIEVER'S LEVEL

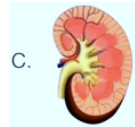
21. Framework formed by the bones of our body is:
- a) Spinal cord
- b) Skeletal system
- c) Muscular system
- d) Nervous system
22. When we see more than half of the Moon, it is called _____ Moon.
- a) Gibbous b) Crescent
- c) Full d) New
23. Steam: Gas: Milk:?
- a) solid b) liquid
- c) gas d) none of these
24. When steam changes into water, it is known as _____.
- a) Condensation b) Evaporation
- c) Melting d) None of these

25. Rocks break into smaller particles under the effect of _____ and form soil.
- Temperature change
 - Water
 - Wind
 - All of these
26. Which of the following measures would help to check the spread of diseases like malaria and dengue?
- Drains carrying dirty water should be covered.
 - House should have proper ventilation and a courtyard.
 - Mosquito repellents should be used.
 - Doors and windows should be fitted with wire-netting.
- 1 & 3 only
 - 2 & 3 only
 - 1, 3 & 4 only
 - 1, 2, 3 & 4
27. Why is the Sun important to the Earth?
- It provides light energy to green plants to make their own food.
 - It provides heat that enables living things to survive on Earth.
 - It rotates around the Earth to give us seasons.
- 1 & 2 only
 - 1 & 3 only
 - 2 & 3 only
 - 1, 2 & 3
28. What is the process of water falling from the sky as rain, snow, or hail called?
- Evaporation
 - Condensation
 - Precipitation
 - Filtration
29. I am known as the helicopter of the bird world. I am the only bird that can also fly backward. Who am I?
- Tailorbird
 - Hummingbird
 - Weaverbird
 - Swallow
30. Select the INCORRECT option.
- Digestive system— Large intestine
 - Circulatory system— Heart
 - Skeleton system— Skull
 - Nervous system— Nostril
31. Sonika who lives in India has to invite her friend, who lives in London for her wedding. For sending invitation to her, Sonika may use
- E-mail
 - Newspaper
 - Radio
 - Telephone
- (i) only
 - (i) & (ii) only
 - (iii) only
 - (i) & (iv) only
32. Which of the following statements are correct?
- Talons help vultures to pick up small animals like rats.
 - Cranes walk through water with the help of webbed feet.
 - Crows and sparrow are perching birds.
- 1 & 2 only
 - 2 & 3 only
 - 3 only
 - 1, 2 & 3
33. Which among the following organs absorbs the oxygen from the air we breathe in?
- 


A.

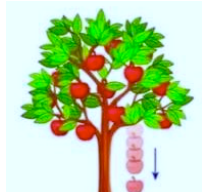


B.



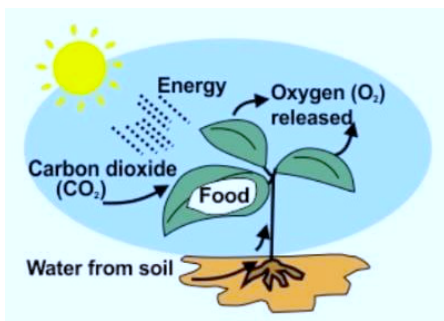
C.



D.
34. In the given picture, we see an apple falling from a tree on the ground due to the force of gravity. What do you mean by gravity?
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- a) The force that pushes every object upwards towards the earth.
- b) The force that pushes every object downwards towards the earth.
- c) The force that pulls every object downwards towards the earth.
- d) The force that pulls every object upwards towards the earth.

35. Plants prepare their food through the process of photosynthesis. Plants need carbon dioxide, sunlight and water to prepare their food. In what form do plants store their food?



- a) Cellulose
- b) Starch
- c) Glucose
- d) Salts

Space for rough work