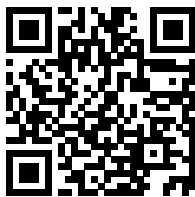


Series: AS111



SESSION – 2

Subject Code: SO

Roll No.:

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Candidates must write the Roll No on the title page of the Question Paper.

Science | Level 1

Time allowed: 1.5 hours

Maximum Marks: 150

Instructions for Candidates:

1. Please verify that this question paper contains **12** printed pages and Ensure that the paper contains a total of **40** questions.
2. Use of mobile phones, smartphones, ipads during examination is **STRICTLY PROHIBITED**.
3. On the OMR sheet, enter all required information carefully in the space provided **ONLY IN BLOCK CAPITALS** and by properly darkening the corresponding bubbles. Incomplete, incorrect, or careless entries may lead to disqualification.
4. Use only a **BLUE or BLACK BALL POINT PEN** for writing entries and filling bubbles. Pencils or other pens are not permitted.
5. **Marking Scheme:** Each question has four alternatives, only one of which is correct. Select the correct option and darken the respective bubble.
 - Each correct answer carries **3 marks**.
 - Each incorrect answer attracts a penalty of **1 mark**.
 - No marks are awarded for unanswered questions.
6. Use only the space provided in the question paper for rough work.
7. Candidates must remain in the examination hall until the exam is officially over. Early exit is not allowed.
8. Do not make stray marks, symbols, or extra writing on the OMR sheet. Fill only the designated bubbles neatly.
9. Since OMR sheets are machine evaluated, changes in entries are **strictly not allowed**.
10. Avoid scratching, overwriting, or erasing, as these may result in wrong evaluation.
11. **DO NOT write anything on the back side** of the OMR sheet.

Multiple Choice Questions

1. Read the statements carefully and choose the correct option.

Statement A: Elephants are killed for their tusks.

Statement B: Tigers, crocodiles and snakes are killed for their skins.

Statement C: Musk deer are killed just to make a little scent from their musk.

Statement D: Rhinoceros are killed for their horn.

- (A) TTTT
- (B) FFFF
- (C) TFTF
- (D) FTFT

2. Animal X has the following characteristics: gives birth to its young ones; has outer body covering of hair; has four legs; lives in a grassland habitat; eats only plants. Which one of these animals could be Animal X?

- (A) Gorilla
- (B) Jaguar
- (C) Grasshopper
- (D) Zebra

3. Read the statements carefully and choose the correct option.

Statement A: There are two stomachs in the human body.

Statement B: There are two lungs in the human body.

- (A) Only statement A is true.

- (B) Only statement B is true.

- (C) Both A and B are true.

- (D) Both A and B are false.

4. Read the statements carefully and choose the correct option.

Statement A: Adult human body has over 500 bones.

Statement B: Adult human body has 32 teeth.

- (A) Only statement A is true.
- (B) Only statement B is true.
- (C) Both A and B are true.
- (D) Both A and B are false.

5. The flow of blood through your heart and around your body is called

- (A) circulation
- (B) simplification
- (C) complication
- (D) none of these

6. The bones around your chest that protect organs such as the heart are called _____.

- (A) keratin
- (B) vertebrae
- (C) ribs
- (D) larynx



7. What is the full form of the 3Rs?
- (A) Reduce, Reuse, Recycle
(B) Refuse, Reduce, Repair
(C) Reduce, Repair, Refuse
(D) Reuse, Recycle, Reject
8. Which mountain range is the highest in the world?
- (A) Western Ghats
(B) Himalayas
(C) Aravalli Range
(D) Eastern Ghats
9. Which of the following substances is able to sublime?
- (A) Carbon dioxide
(B) Salt
(C) Water
(D) Air
10. Pick the odd one out.
- (A) Bicycle
(B) Pulley
(C) Wedge
(D) Screw
11. Friction can be useful when driving a car. How can friction be reduced in a car?
- (A) Use the rear-view mirror when turning.
(B) Check the headlights once a week.
(C) Keep the engine topped up with oil.
(D) Don't let the diesel/petrol fall too low in the tank.

12. Select the correct match.

Traditional dress	State
Phiran	Punjab
Chorno	Gujarat
Pheta	Kerala
Mundu	Maharashtra

- (A) Phiran — Punjab
(B) Chorno — Gujarat
(C) Pheta — Kerala
(D) Mundu — Maharashtra

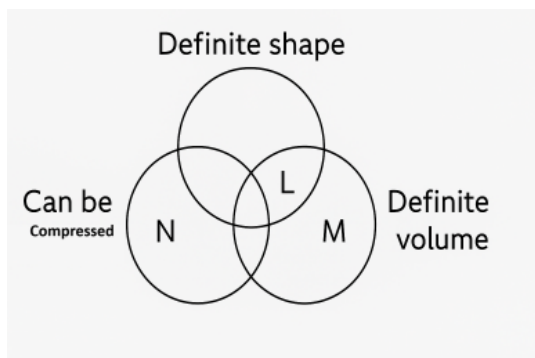
13. Study the given table and select the **incorrect** option regarding P, Q, R and S.

Animal	Wings	Feathers	Scales	Fins	Hair
P	✓	×	✓	×	×
Q	✓	✓	×	×	×
R	×	×	✓	✓	×
S	×	×	✓	×	✓

- (A) P could be an animal that has six legs, is oviparous and has many stages in its life cycle.
(B) Q and S are warm-blooded animals where Q is always oviparous and lacks teeth whereas S may be viviparous and possesses teeth.
(C) R could be a cold-blooded, oviparous, aquatic animal like seal or arowana.
(D) P could be moth, Q could be nightingale, R could be Scoliodon and S could be pangolin.

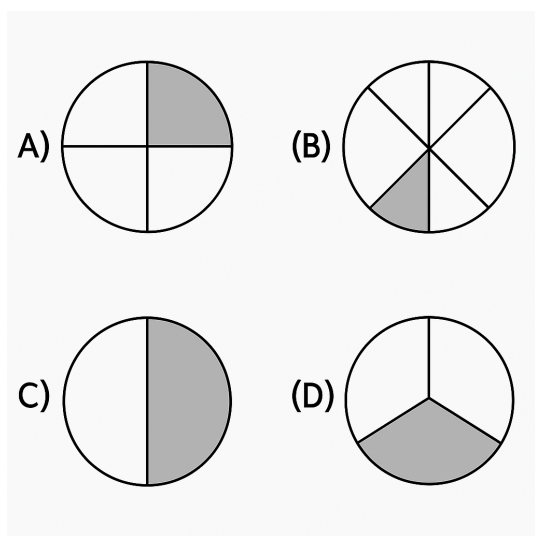
14. Study the given Venn diagram. Select an example for L, M and N.





- (A) L–Rubber band; M–Oxygen; N–Ceramic tile
 (B) L–Iron rod; M–Salt; N–Water vapour
 (C) L–Syrup; M–Ceramic tile; N–Oxygen
 (D) L–Marble; M–Syrup; N–Nitrogen

15. The gravitational pull of the Moon is _____ of that of the Earth.

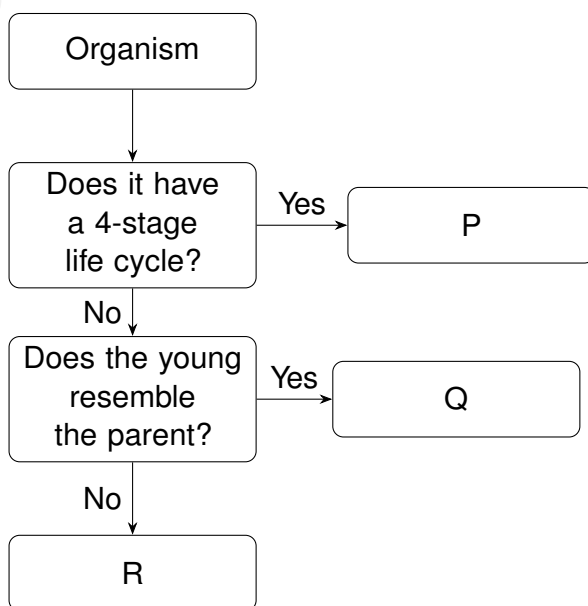


16. Match the following:

List I	List II
P. Crown	1. This type of tooth is pointed, sharp and made to tear food.
Q. Canine	2. It is the part of the tooth you can see above the gums.
R. Wisdom	3. These teeth are big and strong to help you grind food so it can be swallowed.
S. Molars	4. Last four teeth a person will get.

- (A) P–2, Q–1, R–4, Q–3
 (B) P–2, Q–3, R–4, Q–1
 (C) P–3, Q–1, R–2, Q–4
 (D) P–4, Q–3, R–1, Q–2

17. Identify the organisms P, Q and R on the basis of the given flowchart.



- (A) P–Butterfly; Q–Cockroach; R–Grasshopper



- (B) P–Mosquito; Q–Chicken; R–Bear
 (C) P–Butterfly; Q–Whale; R–Frog
 (D) P–Ant; Q–Fruit fly; R–Spider

18. Answer the following riddle.

Loaded with vitamin C, and grown on a tree,
 which fruit is grown where it's hot, and part
 of a juice often bought?

- (A) Pineapple
 (B) Watermelon
 (C) Grapes
 (D) Oranges

19. When a P is applied to an object and the object moves through a distance, we say Q is done.

- (A) $P \rightarrow \text{work}$, $Q \rightarrow \text{energy}$
 (B) $P \rightarrow \text{force}$, $Q \rightarrow \text{work}$
 (C) $P \rightarrow \text{force}$, $Q \rightarrow \text{energy}$
 (D) $P \rightarrow \text{energy}$, $Q \rightarrow \text{force}$

20. Study the following actions that were carried out.

1. Pushing a 2 kg skateboard on a flat rough ground over a distance of 2 m.
2. Pushing a 2 kg bag of flour on a flat rough ground over a distance of 2 m.
3. Pushing a 5 kg sack of rice on a flat rough ground over a distance of 2 m.
4. Pushing a 5 kg sack of onions up a rough slope over a distance of 2 m.

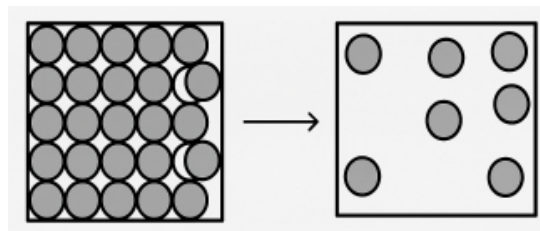
Arrange the above actions according to the amount of force required to carry out the actions, starting with the one that uses the least force.

- (A) 1, 2, 4, 3
 (B) 4, 3, 2, 1
 (C) 1, 2, 3, 4
 (D) 4, 1, 2, 3

21. Amit did not want to do his homework. He was throwing his pencil away but every time it fell on the floor. He got angry. What should you do to make him feel better?

- (A) Scold him
 (B) Be calm, and explain the concept of gravity to him.
 (C) Ask him to take a short break and then finish his homework.
 (D) Both (B) and (C)

22. Identify the change of state shown in the given diagram. Now, select the item that can undergo this change at room temperature.



- (A) Ice
 (B) Mothballs
 (C) Coffee powder
 (D) Common salt

23. Ram and Shyam were fighting over a question that ice is a form of water or not. Sarita came in between and explained the three states of water. What would you do if you were in a similar situation as Sarita?

- (A) Take Ram and Shyam to the police.



- (B) Scold them and ask them to keep quiet.
- (C) Take them to a doctor.
- (D) Explain the answer well so that both of them understand the concept clearly.
24. Animals in the desert go for a long summer sleep, as the summer is hot and with very little water and food. This summer sleep is called:
- (A) Aestivation
- (B) Hibernation
- (C) Adaptation
- (D) Migration
25. Avni bought a young rose plant and placed it in her living room. The next day she went on a one-month holiday with her family. When she came back, she saw that her rose plant had withered and died. What is the most probable reason for its death?
- (A) The plant did not have enough air.
- (B) The plant was not given water and sunlight.
- (C) The living room was too small.
- (D) The pot was too small for the plant.
26. Aasish and Ruhi were playing on the terrace. Suddenly they saw a rocket in the sky and started talking about planets, stars and constellations. Aasish said all the planets are hot because they revolve around the Sun, but Shalu said no, all the planets are not equally hot — it depends on their distance from the Sun. What would you do to stop the argument?
- (A) Try to stop the argument by giving them right information.
- (B) Shout at Aasish and ask why he does not know the right thing.
- (C) Make Aasish feel bad in front of Ruhi because she is right.
- (D) Tell Aasish not to play with Ruhi ever again.
27. Rivers constantly erode soil on their banks. This can be prevented by:
- (A) Building embankments
- (B) Terrace farming
- (C) Forest creation
- (D) Overgrazing
28. Match the following:
- | List I | List II |
|----------------|----------------------|
| P. Metamorphic | 1. Wind and water |
| Q. Erosion | 3. Pressure and heat |
| R. Sedimentary | 2. Form in layers |
| S. Igneous | 4. Volcano |
- (A) P-1, Q-2, R-3, S-4
- (B) P-3, Q-1, R-2, S-4
- (C) P-2, Q-4, R-1, S-3
- (D) P-4, Q-3, R-3, S-1
29. Select the food chain that can exist in nature.
- (A) Grass → Wheat → Grasshopper → Frog → Snake
- (B) Grass → Rabbit → Fox → Lion
- (C) Wheat → Grasshopper → Snake → Frog
- (D) Mango → Caterpillar → Bird → Monkey → Salmon



30. Match the following:

Column A	Column B
1. Mountain wildlife	A. Camel, lizard, fox
2. Desert wildlife	B. Elephant, deer, buffalo
3. Plains wildlife	C. Snow leopard, mountain goat, yak
4. Coastal wildlife	D. Dolphin, starfish, crab

(A) 1–A, 2–B, 3–C, 4–D

(B) 1–C, 2–A, 3–B, 4–D

(C) 1–B, 2–D, 3–A, 4–C

(D) 1–D, 2–C, 3–B, 4–A

31. Which of the following pairs is incorrect?

(A) Yak – Lives in high-altitude regions

(B) Mountain goat – Good at climbing

(C) Camel – Lives in forests and rivers

(D) Elephant – Lives in forested plains

32. Read the given statement and select the correct option.

I am a renewable energy source harnessed using wind turbines. I help generate electricity without polluting the environment. What am I?

(A) Solar energy

(B) Wind energy

(C) Geothermal energy

(D) Hydel energy

33. Consider the following characteristics:

I. Formed from the remains of ancient plants and animals

II. Non-renewable resource

III. Can be used for electricity generation and transportation

IV. Releases harmful gases when burned, contributing to air pollution

Which of the following fossil fuels share these characteristics?

(A) Coal

(B) Solar energy

(C) Hydel energy

(D) Wind energy

34. Monsoon is the time when we need to take extra care of our body to keep it free from diseases. But your younger brother Rahul is very careless and lazy. He never feels like keeping his surroundings and food clean. So he can fall prey to diseases like typhoid, etc. You are worried about his health. What basic things will you ask him to do?

(A) Wash your hands properly before and after eating food.

(B) Do not let garbage collect in your surroundings as it attracts flies which contaminate food.

(C) Always keep your body clean.

(D) All of these.

35. Starting from the first letter, strike out every alternate letter to get the name of a food preservation method and select the correct option.

(A) RFORSYPIQNLGD

(B) PCOARNCNEILNAGI

(C) CSETFEGA HMJIKNLGM



(D) FRGOHAISOTPIQNRGS

36. Select the correct statements.

- (i) Wash your hands before and after every meal.
- (ii) *Makke ki roti* and *sarso ka saag* is a traditional food of Rajasthan.
- (iii) When you do not get enough food to eat, stored fats are used up to give you energy.
- (iv) Potatoes are a good source of protein.

- (A) (i) and (iii) only
- (B) (i) and (ii) only
- (C) (ii) and (iv) only
- (D) (iii) and (iv) only

37. Shyam is a villager who lives in a remote area of West Bengal. His home is not strong enough and whenever there are heavy rains or floods in that area, they face a lot of trouble. In extreme cases, they even have to evacuate their homes. Their houses are made up of mud and hay stacks and there is no electricity. Such houses are called:

- (A) Furnished houses
- (B) Pucca houses
- (C) Kuccha houses
- (D) Well-furnished houses

38. Select the correct statement among the following.

- (A) The nest of a tailor bird has a tunnel-like opening at the bottom.
- (B) A woodpecker makes its nest in a hole in a tree trunk, which it pecks with its beak.

- (C) A penguin makes its nest under water.
- (D) Koel is an unusual bird which does not make a nest.

39. Read the given statement and select the option which on unscrambling correctly identifies X.

X is a mineral that is used to make pencil leads.

- (A) HKCAL
- (B) AIGEPRHT
- (C) ACLO
- (D) IPEMUC

40. Tejas took 100 grams each of three different soils X, Y and Z in three identical pots, each with a hole at the base. He poured 30 mL water separately over these three soils and collected the water dripping from the holes, in similar graduated beakers P, Q and R for soils X, Y and Z respectively. His readings after 10 minutes were tabulated as shown here. Identify soils X, Y and Z and select the **INCORRECT** statement.

	Beaker P	Beaker Q	Beaker R
Water collected	16 mL	22 mL	12 mL

- (A) Soil Y is mostly found in the desert and on the sea shore.
- (B) Soil Z is mostly used for making pots and toys.
- (C) Soil X is the best soil for the growth of plants like mango, banyan, etc.
- (D) None of these



Space for Rough Work

Space for Rough Work

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A quarterly **journal for Class 4–5 students.**

- Submit essays, projects, or drawings.
- Selected work printed with student name.
- QR codes link to student presentations.

✓ Parents proudly see child’s name in print.



Scan the QR to explore & order online

ScienceX Olympiad — Post-Exam Add-On Page

Make this page useful for reflection, family engagement, and classroom reuse.

1) Reflection & Self-Assessment

My Performance Tracker

- Questions I found **easy**:

- Questions I found **tough**:

- One concept to revise:

Confidence Rating:

- ☐ Fully confident ☐ Partly confident ☐ Guessed the answer

2) Challenge Your Parent / Friend

Pick **any 3 questions** from this paper and ask your parent/sibling/friend to solve them.

Q. No.	Solved? (Y/N)	Time Taken	Who explained better?

3) Teacher's Corner

Teachers can reuse this paper for continued learning:

- Select 5 questions for a **weekly quiz**.
- Discuss the **most missed** question in class.
- Post one “**Question of the Week**” on the noticeboard.

4) Next Steps for Students

- File this paper in your **ScienceX Portfolio**. Reattempt it in **2 weeks** and compare scores.
- Submit your best written explanation (any one question) to your teacher or ScienceX.
- Top student explanations may feature in the **ScienceX Young Innovators Journal**.