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SOF NATIONAL SCIENCE OLYMPIAD 2025-26

QUESTION PAPER SET
C

CLASS
8

Total Questions : 50

Time : 1 hr.

Guidelines for the Candidate

- You will get additional ten minutes to fill up information about yourself on the OMR Sheet, before the start of the exam.
- Write your **Name, School Code, Class, Section, Roll No.** and **Mobile Number** clearly on the **OMR Sheet** and do not forget to sign it. We will share your marks / result and other information related to SOF exams on your mobile number.
- The Question Paper comprises three sections:
Logical Reasoning (10 Questions), **Science** (35 Questions) and **Achievers Section** (5 Questions)
 Each question in Achievers Section carries 3 marks, whereas all other questions carry 1 mark each.
- All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
- There is only ONE correct answer. Choose only ONE option for an answer.
- To mark your choice of answers by darkening the circles on the OMR Sheet, use **HB Pencil** or **Blue / Black ball point pen** only.
 E.g.
 Q.16: If a mixture can be separated by magnetic separation, one of the constituents must be
 A. Ferrous B. Non-ferrous C. Precious D. Non-metallic.
 As the correct answer is option A, you must darken the circle corresponding to option A on the OMR Sheet.
- Rough work should be done in the blank space provided in the booklet.
- Return the OMR Sheet to the invigilator at the end of the exam.
- Please fill in your personal details in the space provided before attempting the paper.
- Participate in SOF-Techfest IIT Bombay Innovation Challenge. Open for class 8, 9 and 10. For details and to participate, please turn to last page.**

16. ● (B) (C) (D)



Name:.....

SOF Olympiad Roll No.:..... Contact No.:.....

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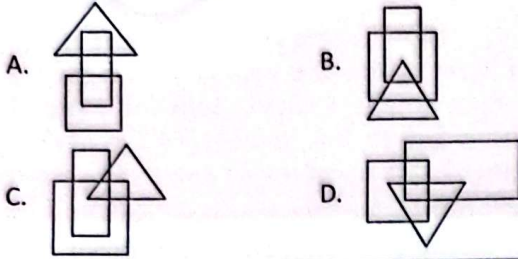
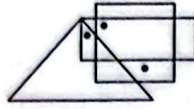
LOGICAL REASONING

1. Find the missing number, if same rule is followed in all the three figures.



- A. 484 B. 242 C. 244 D. 488

2. Select a figure from the options which does not satisfy the same conditions of placement of the dots as in the given figure.



3. If in a certain code language, 'BRIDGE' is coded as 'VDRWAE', then how will 'CREATE' be coded in the same code language?

- A. NAZVIV B. ENVZWH
C. VEVZAR D. RAZVEV

4. Three different positions of a cube are given. Which symbols will be at the top, if '&' is at the bottom?

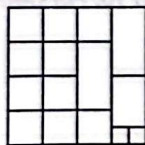


- A. * B. © C. # D. @

5. Pointing towards a girl, a man said, "She is the only granddaughter of my sister's only brother's wife's mother-in-law." How is the man's father related to that girl?

- A. Grandfather B. Father
C. Father-in-law D. Uncle

6. Find the number of squares formed in the given figure.

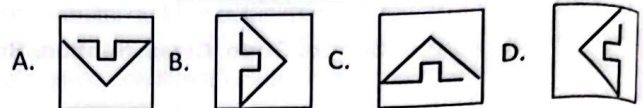
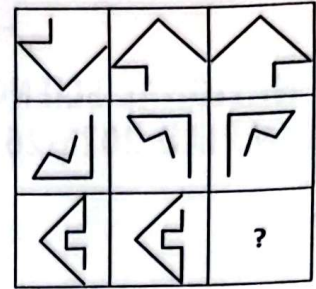


- A. 18 B. 19
C. 20 D. More than 20

7. If it is possible to make only one meaningful English word using 2nd, 3rd, 7th, 8th and 10th letters of the word PERSONALITY (using each letter only once), then what will be the third letter of the word formed? If no such word can be formed, then give 'W' as your answer and if more than one such word can be formed, then give 'Z' as your answer.

- A. T B. A C. W D. Z

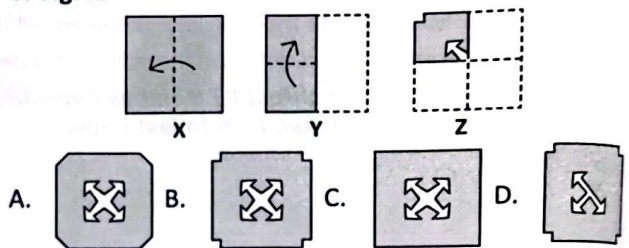
8. Select a figure from the options which will complete the given figure matrix.



9. What will be the smaller angle between the minute and hour hands of a clock when the time is quarter to 9:00?

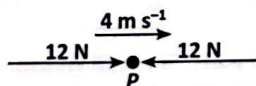
- A. 7.5° B. 18.5°
C. 352.5° D. None of these

10. Three figures X, Y and Z showing a sequence of folding of a piece of paper are given. Fig. Z shows the manner in which the folded paper has been cut. Select a figure from the options which represents the unfolded form of Fig. Z.



SCIENCE

11. A particle (P) moving at a constant velocity of 4 m s^{-1} is being acted on by two 12 N forces as shown in the given figure. The particle will



- A. Slow down and gradually stops
B. Stop immediately

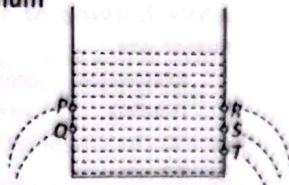
- C. Continue to move at a velocity of 4 m s^{-1}
D. Increase its speed gradually.

12. A water tank has holes fixed at points as shown in the given figure. Which of the following statements is/are correct?

- (i) The water will flow out at the same pressure from holes at Q and S.

- (ii) The water exerts maximum pressure at hole T.
 (iii) The water jet travels same distances from holes Q and S.
 (iv) The water exerts maximum pressure at hole R.

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



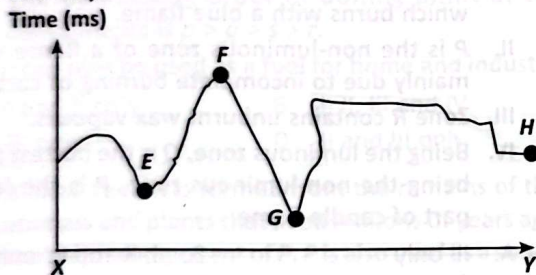
13. Read the given statements about friction and select the option that correctly identifies them as true (T) or false (F) ones.
- (i) Grease is used to reduce friction in a bicycle chain.
 (ii) Oil can be used to increase friction in a car engine.
 (iii) Ball bearings are used to reduce friction in a fan.
 (iv) Talc can be used to reduce friction when an object is sliding on a surface.

- | | (i) | (ii) | (iii) | (iv) |
|----|-----|------|-------|------|
| A. | T | F | F | T |
| B. | F | F | T | T |
| C. | T | F | T | T |
| D. | T | T | T | F |

14. A gun was fired and an observer positioned at a known distance from the gun, measured the time interval between the visual detection of the muzzle flash and the auditory perception of the gun shot. Let us assume that the observer determines the speed of sound by the formula $\frac{\text{distance}}{\text{time}}$. Which of the following will not affect the result?

- (i) The frequency of the gunshot sound.
 (ii) The loudness of the gunshot.
 (iii) The temperature of the environment.
- A. (i) and (ii) only B. (iii) only
 C. (ii) and (iii) only D. (i), (ii) and (iii)

15. A ship is travelling from point X to Y along the surface of the water. Ultrasound is sent from the ship directly downward into the water. The given diagram shows the duration of ultrasound which returns to the receiver on the ship.



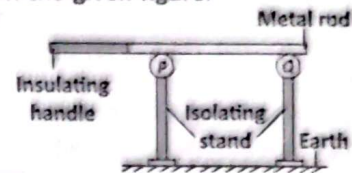
Select the correct option for the given statements.
 Statement I : Point F is the deepest point.
 Statement II : Ultrasound takes longest time to reach at point G.

- A. Both statement I and statement II are correct.
 B. Statement I is correct but statement II is incorrect.
 C. Both statement I and statement II are incorrect
 D. Statement I is incorrect but statement II is correct.

16. Fill in the blanks by selecting an appropriate option. An LED may be used in place of the electric bulb in the tester. LED glows even when a (i) electric current flows through it. There are two wires (called leads) attached to an LED. One lead is (ii) than other. When an LED is connected to a circuit, longer lead is always connected to the (iii) terminal of the battery and the shorter lead is connected to the (iv) terminal of the battery.

- | | (i) | (ii) | (iii) | (iv) |
|----|--------|---------|----------|----------|
| A. | Strong | Shorter | Negative | Positive |
| B. | Weak | Longer | Positive | Negative |
| C. | Weak | Shorter | Negative | Positive |
| D. | Strong | Longer | Positive | Negative |

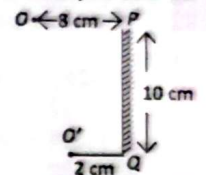
17. Two metal spheres P and Q are mounted on insulating stands. Sphere P is initially uncharged and sphere Q is initially positively charged. A metal rod, held by an insulating handle, is placed in contact with P and Q as shown in the given figure.



What are the charges on P and Q after the rod is placed in contact with them?

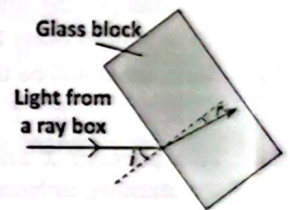
- | | Charge on P | Charge on Q |
|----|-------------|-------------|
| A. | Positive | Positive |
| B. | Positive | Uncharged |
| C. | Uncharged | Positive |
| D. | Uncharged | Uncharged |

18. A light source O is placed in front of a plane mirror as shown in the given figure. O' is a point on the path of reflected ray. What is the distance of the point on the mirror from where the light gets reflected (measured from point P)?



- A. 8 cm
 B. 5 cm
 C. 4 cm
 D. 2 cm

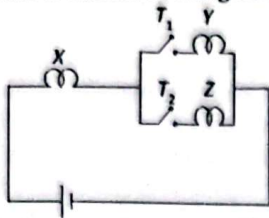
19. A ray of light is passing from air to the glass. An apparatus is being setup to investigate the relation between the angle of incidence (i) and the angle of refraction (r) as shown in the given diagram.



Which of the following is the correct graph of $\sin i$ against $\sin r$?

- | | | | |
|----|--|----|--|
| A. | | B. | |
| C. | | D. | |

20. A circuit diagram is shown in the given figure.



Match the column I with column II and select the correct option from given codes.

Column I

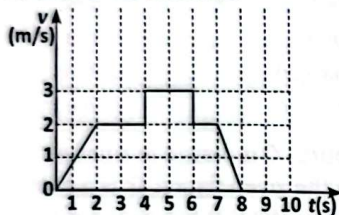
- (P) Switch T_1 is open while switch T_2 is closed
 (Q) Switch T_2 is open while switch T_1 is closed
 (R) Both switches T_1 and T_2 are open
 (S) Both switches T_1 and T_2 are closed

Column II

- (i) No bulb will glow
 (ii) Only bulbs X and Z will glow
 (iii) Only bulbs X and Y will glow
 (iv) Bulbs X, Y and Z will glow

- A. (P)-(ii), (Q)-(iii), (R)-(iv), (S)-(i)
 B. (P)-(i), (Q)-(ii), (R)-(iii), (S)-(iv)
 C. (P)-(iv), (Q)-(ii), (R)-(i), (S)-(iii)
 D. (P)-(ii), (Q)-(iii), (R)-(i), (S)-(iv)

21. A particle starts from the origin at $t = 0$ second and moves along the positive X-axis. Its velocity-time graph is shown in the given diagram. Find the position of the particle at time $t = 5$ seconds.



- A. 6 m B. 15 m C. 9 m D. 10 m

22. The time period (T) of a pendulum bob is given by

$$T = 2\pi \sqrt{\frac{L}{g}}$$

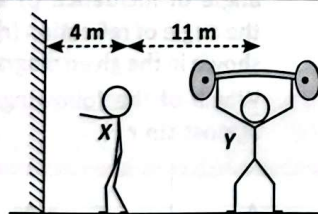
where L is the length of the pendulum and g is the acceleration due to gravity. When following changes are made to the pendulum:

- (1) Changes the length of the pendulum to $4L$.
 (2) A bob of mass $2g$ is being used.

Then, what will be the new time period of pendulum?

- A. $2T$ B. T C. $4T$ D. $6T$

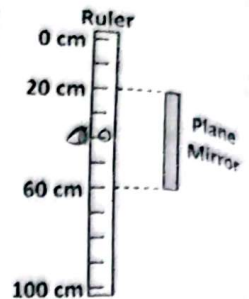
23. Two persons X and Y are standing in front of a plane mirror as shown in the given figure. If person X walks 2 m forward, then how far away from person X will the image of person Y seem to be?



- A. 17 m B. 16 m C. 11 m D. 10 m

24. A man drills a tiny hole at the 40 cm mark on a 1 metre long ruler. He puts a 40 cm long plane mirror in front of the ruler as shown in the given diagram.

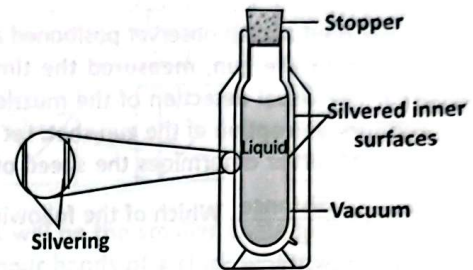
The maximum and minimum readings that he can read from the image of ruler when he sees through the tiny hole while looking at the plane mirror are



- | | Maximum reading | Minimum reading |
|----|-----------------|-----------------|
| A. | 50 cm | 30 cm |
| B. | 60 cm | 20 cm |
| C. | 80 cm | 0 cm |
| D. | 80 cm | 20 cm |

25. A vacuum flask and its enlarged view of a section through the flask wall is shown in the given figure. Its inner surface is made up of silver that reduces heat transfer. Select the correct statement(s) with reference to the given figure.

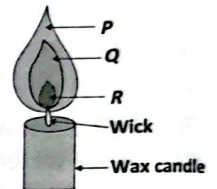
- (i) Silver surface is a good reflector of radiation.
 (ii) Silver surface minimizes heat loss by radiation.
 (iii) Here, heat loss due to conduction and convection will not be reduced.
 (iv) A black rough surface should be used to reduce heat loss by radiation.



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

26. Different zones of a candle flame are marked by the letters P, Q and R.

Which of the following statements is/are incorrect regarding P, Q and R?



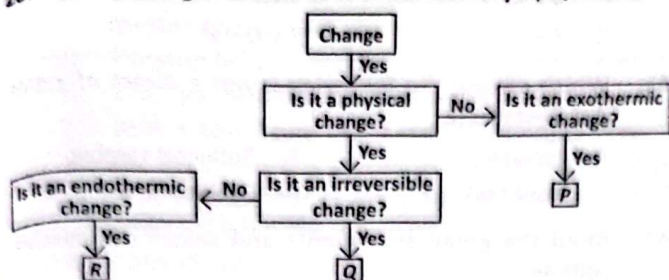
- I. Q is the luminous zone of candle flame, where vaporised wax gets oxidised to carbon dioxide which burns with a blue flame.
 II. P is the non-luminous zone of a flame which is mainly due to incomplete burning of carbon.
 III. Zone R contains unburnt wax vapours.
 IV. Being the luminous zone, Q is the hottest part and being the non-luminous zone, P is the least hot part of candle flame.
- A. III only B. I, II and IV only
 C. I and III only D. II and IV only

27. When a fuel undergoes complete combustion, X and Y are formed, whereas on incomplete combustion, Z and Y are formed. Select the correct statements regarding X, Y and Z.

- I. For fires involving wood and paper, X is the best extinguisher whereas for fires involving inflammable materials, Y is the best extinguisher.

- II. Z is a poisonous gas.
 III. Increased concentration of X in air has been linked to global warming.
 IV. Z dissolves in rain water and forms acids. Such rain is called acid rain.
- A. I and IV only B. II, III and IV only
 C. II and III only D. I, III and IV only

28. Study the given flow chart and identify P, Q and R.



- | | P | Q | R |
|----|------------------|--------------------------------|-------------------|
| A. | Photosynthesis | Beating aluminium to make foil | Condensation |
| B. | Bursting of tyre | Occurrence of earthquake | Rusting of iron |
| C. | Rusting of iron | Shredding of paper | Freezing of water |
| D. | Burning of wood | Cutting of trees | Evaporation |

29. Read the given passage.

Fractional distillation of petroleum in a refinery yields many useful compounds. For example, (p) is used as a solvent for dry cleaning, (q) is used as a fuel for jet aircrafts, (r) is used to make paints while (s) is used as a fuel for electric generators.

Select the incorrect statement(s) regarding p, q, r and s.

- I. The ignition temperature of p and q is very high thus they are called inflammable substances.
- II. Calorific value of q and s are higher than that of hydrogen.
- III. The decreasing order of boiling point of the components is $p > q > s > r$.
- IV. r can also be used as a fuel for home and industry.

- A. I and II only B. I, II, III and IV
 C. III only D. II and III only

30. P is a fossil fuel. It is formed from the remains of tiny sea animals and plants that lived millions of years ago. Q is the major component of P. P is also used as a source of gas R which is further used for the manufacture of nitrogenous fertilisers. P in the form of S is used as a fuel in motor vehicles.

P, Q, R and S are respectively

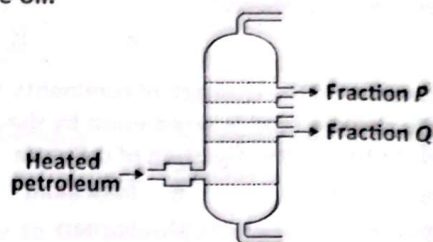
- A. Petroleum gas, butane, hydrogen and LPG
 B. Petroleum gas, methane, nitrogen and LPG
 C. Coal gas, hydrogen, natural gas and CNG
 D. Natural gas, methane, hydrogen and CNG.

31. Read the following statements carefully and select the option that correctly identifies them as true (T) or false (F) ones.

- I. The ash obtained after burning of magnesium ribbon will turn blue litmus paper red.
- II. Burning of coal and rusting of iron are examples of chemical change.
- III. Melting of wax and condensation of steam are physical irreversible changes.
- IV. For rusting, both oxygen and water are essential thus, rusting becomes slow if humidity is increased.

- | | I | II | III | IV |
|----|---|----|-----|----|
| A. | T | F | T | F |
| B. | F | F | T | T |
| C. | F | T | F | F |
| D. | F | T | F | T |

32. The given diagram shows the fractional distillation of crude oil.



Mark the correct option.

- | | Q condenses before P | P has higher boiling point than Q |
|----|----------------------|-----------------------------------|
| A. | Yes | Yes |
| B. | Yes | No |
| C. | No | Yes |
| D. | No | No |

33. The given table shows the colour change of some indicators by substances P, Q and R.

| Substance | Colour change of turmeric paper indicator | Colour change of red cabbage juice indicator | Colour change of China rose indicator |
|-----------|---|--|---------------------------------------|
| P | No change | Red | Magenta |
| Q | Red | Green | Green |
| R | No change | No change | No change |

The incorrect statements among the following are

- I. P can be used as a remedy for ant sting and wasp sting.
- II. The pH of substance R will be greater than P but less than Q.
- III. Q and R do not change the colour of red litmus paper whereas P turns red litmus paper blue.
- IV. R can be formed by the reaction of P and Q and heat is absorbed during this reaction.

- A. II, III and IV only B. I, II and III only
 C. I, III and IV only D. I and III only.

34. X is a crop that is cultivated in the winter season, generally from October to March. X could be
- A. Green gram B. Wheat
C. Cotton D. Soybean.

35. Refer to the given analogy and unscramble the letters in the given options to get the word that can be correctly placed at P.

Virus : Measles :: Bacteria : P

- A. OLPIO B. ARAMALI
C. ENSTATU D. USMPM
36. Given below is a list of few things.
- (i) Oxygen (ii) Carbon dioxide
(iii) Water (iv) Sunlight
(v) Cellulose (vi) Nitrogen
(vii) Chlorophyll (viii) Bacteria
- How many among them are needed by plants to perform photosynthesis?
- A. 4 B. 5 C. 6 D. 7

37. X is a chamber in the stomach of ruminants, where the partially chewed food is acted upon by the anaerobic bacteria to help in the digestion of cellulose. X could be
- A. Abomasum B. Reticulum
C. Omasum D. Rumen.

38. Match column I with column II and select the correct option.

| Column I | Column II |
|----------------|---|
| (a) Asthma | (i) Inflammation of the bronchi |
| (b) Emphysema | (ii) Viral infection |
| (c) Bronchitis | (iii) Allergic reaction of respiratory system |
| (d) Influenza | (iv) Breakdown of alveolar walls |

- A. (a)-(i), (b)-(ii), (c)-(iv), (d)-(iii)
B. (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
C. (a)-(iv), (b)-(iii), (c)-(i), (d)-(ii)
D. (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)

39. Read the given statement and select the option that correctly fill in the blanks (i)-(iii) respectively.

The machine shown in the given figure is used for removing (i) from the (ii) after (iii).



- A. Chaff, Grains, Threshing
B. Grains, Chaff, Winnowing
C. Grains, Plants, Harvesting
D. Plants, Chaff, Drying
40. Unscramble the given letters to obtain the name of an antibiotic (letters can be used more than once).

E N I P C L N

Now, select the option that correctly answers the given questions.

- (a) It is obtained from which group of microorganisms?
(b) It is used to treat what type of infections?

| (a) | (b) |
|-------------|-----------|
| A. Fungi | Bacterial |
| B. Protozoa | Viral |
| C. Virus | Viral |
| D. Bacteria | Bacterial |

41. Which among the following is not a direct effect of deforestation?
- A. Floods B. Reduced rainfall
C. Acid rain D. Global warming

42. Read the given statements and select the correct option.

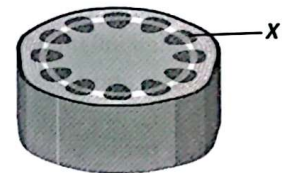
Statement 1 : Endocrine glands are located at specific places inside our body and they control various functions of our body.

Statement 2 : Endocrine glands release hormones which act as chemical messengers and affect different organs of our body.

- A. Both statement 1 and statement 2 are correct.
B. Both statement 1 and statement 2 are incorrect.
C. Statement 1 is correct but statement 2 is incorrect.
D. Statement 1 is incorrect but statement 2 is correct.

43. I was a large, heavy and flightless bird. I was hunted in large number in the island of Mauritius and now no member of my species survives. Who am I?
- A. White-rumped vulture B. Grey junglefowl
C. Dodo D. Great Indian bustard

44. The part labelled as X in the given figure of T. S. of a plant stem helps to transport _____ in plants.



- A. Food only B. Water only
C. Minerals only D. Both B and C

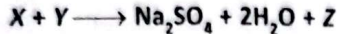
45. Read the given statements and select the option that correctly fills the blanks in any two of them.

- (i) Sperm and ovum fuse to form _____.
(ii) Male produces _____ types of sperm.
(iii) _____ is a primary male hormone produced by _____.
(iv) _____ is a primary female hormone produced by _____.

- A. (i)-Zygote; (iii)-Estrogen, Testes
B. (ii)-Two; (iv)-Estrogen, Ovaries
C. (ii)-Three; (iv)-Testosterone, Testes
D. (i)-Zygote; (iii)-Testosterone, Ovaries

ACHIEVERS SECTION

46. The following reaction takes place in a soda-acid fire extinguisher.

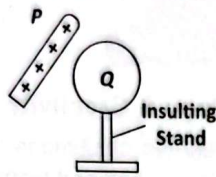


Identify the incorrect statement(s) among the following about X, Y and Z.

- I. Common name of X is baking soda and it turns methyl orange indicator red.
 - II. Y is sour in taste and has pH value greater than 7.
 - III. Z is a gas which turns lime water milky.
 - IV. Both X and Z turn moist red litmus paper blue.
 - V. For fires involving electrical equipment, Z is the best extinguisher as being lighter than oxygen, Z covers the fire like a blanket.
- A. I and III only B. I, IV and V only
C. III only D. I, II, IV and V only

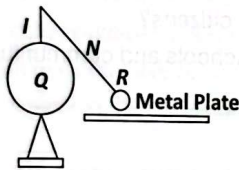
Directions (Q.No. 47 and 48): Refer to the given paragraph and answer the following questions.

A positively charged rod P is brought close to a conducting sphere Q as shown in the given figure.



47. Now, if the sphere is earthed by touching with finger, then
- A. The sphere becomes neutral.
 - B. Positive charges flow from the Earth to the sphere.
 - C. Electrons flow from the sphere to the Earth.
 - D. Electrons flow from Earth to the sphere.

48. Firstly P is removed, then an insulator (I) is connected to the sphere and a pith ball R is connected through a nylon thread N. When R makes a contact with Q, it is then repelled as shown in the given figure.



When the earthed metal plate is brought close to R without touching it, then which of the following statements are incorrect?

- (i) R will be repelled to the far side of Q.
- (ii) R will be attracted to the plate, makes contact and then repelled.

- (iii) R will be repelled so that it makes contact with Q.
- (iv) R will be attracted to the plate, makes contact and neutralised.

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

49. Refer to the given table and select the option that can be correctly placed at X, Y and Z.

| Plant disease | Causal organism | Affected plant |
|------------------------|-----------------|----------------|
| Rust and smut diseases | X | Wheat |
| Y | Fungi | Potato |
| Wilt disease | Z | Potato |

- X Y Z
- A. Bacteria Blight disease Fungi
 - B. Fungi Blight disease Bacteria
 - C. Virus Yellow mosaic disease Fungi
 - D. Bacteria Yellow mosaic disease Virus

50. Refer to the given dichotomous key and select the incorrect statement regarding it.

- (i) (a) Microorganisms that cannot prepare their own food. - Go to (ii)
- (b) Microorganisms that can prepare their own food. - Go to (iii)
- (ii) (a) It cannot reproduce by itself. - P
- (b) It can reproduce by itself. - Q
- (iii) (a) It is devoid of well-developed nucleus. - R
- (b) Nucleus is present. - S

- A. P could cause polio whereas Q could cause athlete's foot.
- B. Genetic material can be found inside a jelly-like substance in R whereas in S it is present inside the nucleus.
- C. P is unicellular whereas Q is multicellular.
- D. None of these

SPACE FOR ROUGH WORK

Introduction

Techfest is Asia's Largest Science and Technology Festival and the Annual Science and Technology Festival of IIT Bombay. With the sole motto of nurturing young talent and promoting innovative thinking among school students, Techfest is conducting an Innovation Challenge in association with the Science Olympiad Foundation for school students across India. It is a platform for young visionaries and problem solvers to showcase their creativity, ingenuity and technical prowess.

Guidelines:

- Appearing in the Innovation Challenge is not compulsory. In case you wish, please visit www.techfest.org/innovationchallenge. No registration fee is to be paid.
- To participate, read the following problem statement and submit your answer at the given link: <https://sofworld.org/sof-techfest-iit-bombay-innovation-challenge-form>
- Answers should be submitted as per the following schedule:

| NSO Set-A 13 th November | NSO Set-B 27 th November | NSO Set-C 11 th December |
|--|--|--|
| By 20 th November | By 4 th December | By 15 th December |

PROBLEM STATEMENT

Innovation for Real-World Challenges – Technology & Creativity for a Better Tomorrow

As we move into a rapidly changing world, students face many real-life challenges in their schools, neighbourhoods and communities. From health and safety to inclusivity and accessibility, innovation and technology can play a key role in improving daily life. Choose **ONE** of the following pressing challenges and propose a creative, technology-driven solution:

1. **Inclusive Learning for All** – How can we design innovative and affordable solutions that make learning more inclusive, whether by supporting students with disabilities, bridging the digital divide, or creating smarter classrooms that cater to different learning needs?
2. **Traffic & Mobility** – Urban traffic causes delays, fuel waste and pollution. What innovative solution can make daily transportation safer, faster and eco-friendlier for students and citizens?
3. **Every Drop Counts** – With water scarcity increasing, how can schools and communities use technology to reduce wastage and manage water efficiently?

Format for Students:

- **Title** – Title of your chosen challenge.
- **Problem** – Clearly explain the social challenge and its impact (100–150 words).
- **Solution** – Present an innovative, feasible idea using technology or creative design (150–200 words).
- **Conclusion** – Justify why your solution is impactful and how it can be implemented (50–100 words).

Rewards:

- Each participant will be awarded a Certificate of Participation from SOF-Techfest, IIT Bombay.
- Top 20 students will be invited with an accompanying adult to Techfest 2025-26 from 22nd to 24th December, 2025, with accommodation provided by Techfest, IIT Bombay.
- Winners will be awarded trophies, gifts, certificates and will get a chance of exclusive VIP entry to International Exhibitions and Lectures at Techfest, IIT Bombay, along with an opportunity to visit IIT Bombay's campus.