



SAMPLE PAPER

International Olympiad Foundation

EXCELLENCE IN EDUCATION

International Olympiad Foundation

14+

OLYMPIADS

MCQ

FORMAT

0

NEGATIVE MARKS

OLYMPIAD

Science Olympiad

International Olympiad Foundation (IOF) · www.iof.education

CLASS / GRADE

Class 4

SUBJECT

IFSO

DURATION

60 Min

MAX MARKS

35

GENERAL INSTRUCTIONS

- All questions are Multiple Choice Questions (MCQs) with options A, B, C, D, E
- Each correct answer carries 1 mark. No negative marking for wrong answers.
- Rough work should be done separately. Do not write on question paper.

PAPER HIGHLIGHTS

- **Multiple Choice Questions (MCQ)**
Five options per question (A, B, C, D, E). Select the single most appropriate answer.
- **No Negative Marking**
1 mark per correct answer. Zero deductions — attempt every question.
- **Conducted by IOF**
International Olympiad Foundation — fostering excellence among students across India.

SUBJECTS

- Cyber English Entrepreneurship Mathematics Commerce Economics GK & Current Affairs Science Western Music
Sanskrit Indian Music Hindi Reasoning & Aptitude Spell Talent

ALL IOF OLYMPIAD PROGRAMMES

IFCO International Foundation Cyber Olympiad	IFEOL International Foundation English Olympiad	IFEnO International Foundation Entrepreneurship Olympiad	IFMO International Foundation Mathematics Olympiad	ICS Institute of Company Secretaries of India Commerce Olympiad	IFEcO International Foundation Economics Olympiad	IFGCO International Foundation General Knowledge & Current Affairs Olympiad
IFSO International Foundation Science Olympiad	IFWMuO International Foundation Western Music Olympiad	IFSaO International Foundation Sanskrit Olympiad	IFIMuO International Foundation Indian Music Olympiad	IFHO International Foundation Hindi Olympiad	IFRAO International Foundation Reasoning & Aptitude Olympiad	IFSTO International Foundation Spell Talent Olympiad

Q1. Choose the number which will complete the second pair in the same way as first pair.

[+1]
[-0]

$$7 : 50 :: 9 : ?$$

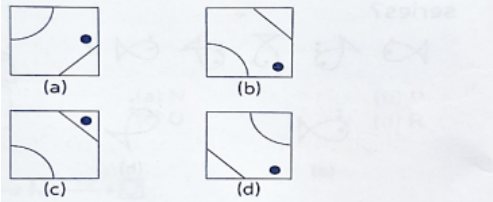
- A. 80
- B. 82
- C. 90
- D. 100
- E. None of these

Q2. Choose the correct option to continue the series.

[+1]
[-0]



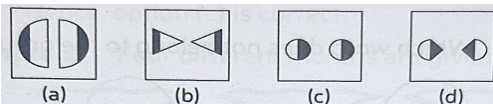
What comes next in the above sequence?



- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. None of these

Q3. Choose the figure which is odd one out.

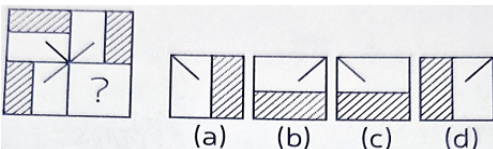
[+1]
[-0]



- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. None of these

Q4. Micky draws the following pattern. In this pattern, one figure is missing. Choose the figure that will complete the pattern.

[+1]
[-0]



- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. None of these

Q5. If in a certain code, SPORTS is written as RTSSPO, then how will FLOWER be written in the same code?

[+1]
[-0]

- A. WERFLO
- B. REWOLF
- C. OLFREW
- D. WOELFR
- E. None of these

Q6. In a row of girls, Emily is ninth from the left and Harry is tenth from the right. When they interchange their positions, then Emily will be nineteenth from the left. What will be Harry's position from the right?

[+1]
[-0]

- A. 20th
- B. 19th
- C. 18th
- D. 21st
- E. None of these

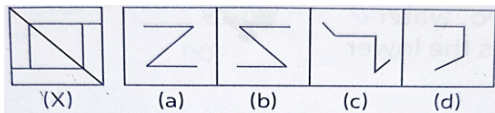
Q7. Choose the word which can be formed from the letters of given word INSTITUTION.

[+1]
[-0]

- A. INSTANT
- B. INTUTION
- C. TREATMENT
- D. NATION
- E. None of these

Q8. Choose the figure from the alternative which is exactly embedded in figure (X).

[+1]
[-0]



- A. (a)
- B. (b)
- C. (c)
- D. (d)
- E. None of these

Q9. Choose the correct option to continue the series.

[+1]
[-0]

4, 9, 19, 34, 54, ?

- A. 70
- B. 75
- C. 79
- D. 80
- E. None of these

Q10. Choose the correct option.

[+1]
[-0]

Berlin is related to Germany in the same way as Bern is related to _____ .

- A. Canada
- B. Mexico
- C. North America
- D. Switzerland
- E. None of these

Q11. Mani knew that plants adapt themselves to the conditions in the environment in which they live. He observed a plant and noticed the following characteristics.

[+1]
[-0]

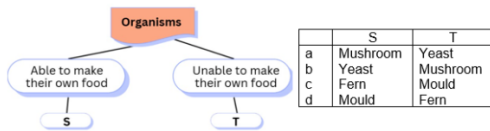
- (i) It has lots of branches and leaves.
- (ii) It can withstand summer heat.
- (iii) It sheds its leaves in the autumn.

But he is confused to identify what kind of plant it is. Can you help him?

- A. It is a plant that grows in plains.
- B. It is a plant of hilly areas.
- C. It is a plant that lives under water.
- D. It is a plant that grows in marshy areas.
- E. None of these

Q12. Which of the following is most likely to be S and T?

[+1]
[-0]



- A. a
- B. b
- C. c
- D. d
- E. None of these

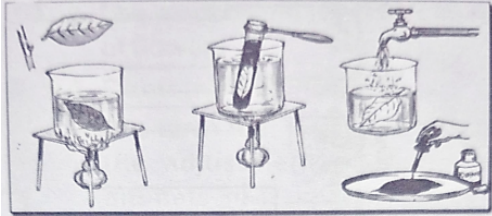
Q13. Which of these foods give you most of the carbohydrates that provide your body with energy ?

[+1]
[-0]

- A. Banana , orange , guava
- B. Fish , meat , liver
- C. Cake , cheese , butter
- D. Corn , rice , potato
- E. None of these

Q14. The experiment given below is performed to show that

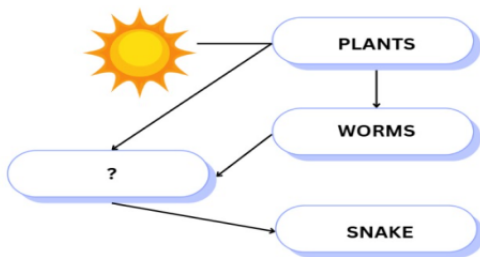
[+1]
[-0]



- A. Green plants give out carbon-dioxide during photosynthesis.
- B. Green leaves absorb chlorophyll.
- C. Sunlight is not needed to make food.
- D. Green plants manufacture starch as food.
- E. None of these

Q15. Which of the following can be placed in the empty box to complete the given food web?

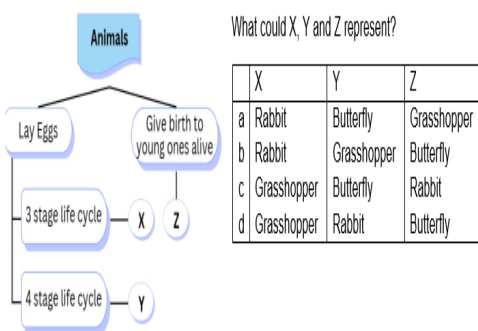
[+1]
[-0]



- A. Tiger
- B. Chicken
- C. Man
- D. Vulture
- E. None of these

Q16. Study the classification table shown below.

[+1]
[-0]



- A. a
- B. b
- C. c
- D. d
- E. None of these

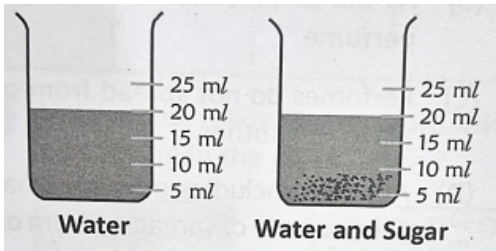
Q17. Which of the following statements is true?

[+1]
[-0]

- A. The Sun is the biggest and closest star to the earth in the universe.
- B. The Sun is the closest moon to the earth but it is not the biggest moon in the universe.
- C. The Sun is the biggest but not the closest star to the earth in the universe.
- D. The Sun is neither the biggest nor the closest star to the earth in the universe.
- E. None of these

Q18. A student took 20 millilitres of water in a beaker and dissolved two teaspoonful of sugar in it. When he checked the volume, to his surprise, the volume remained same at 20 millilitres. Can you guess the reason?

[+1]
[-0]



- A. Sugar did not actually dissolve in the water.
- B. Sugar evaporated.
- C. Sugar occupied the empty spaces in between the molecules of water.
- D. Sugar has zero volume.
- E. None of these

Q19. Study the diagram below.

[+1]
[-0]



It shows the movement of some substances from the soil to all parts of the plant. What can the substance(s) be?

- (i) Water (ii) Dissolved mineral salts (iii) Sugar (iv) Starch

- A. (i) only
- B. (i) and (ii) only
- C. (i) and (iii) only
- D. (i), (iii) and (iv) only
- E. None of these

Q20. Observe the figure shown below which depicts a cooking pan. The parts of the pan are labelled as X and Y.

[+1]
[-0]

Which of the following option best represent the materials being used for X and Y?



	X	Y
a	Metal	Metal
b	Metal	Wood
c	Plastic	Wood
d	Wood	Metal

- A. a
- B. b
- C. c
- D. d
- E. None of these

Q21. A camel lives in the desert, a hot and dry place that gets very little rainfall. Which of the following is not their adaptation to survive in such conditions?

[+1]
[-0]

- A. They can store food in form of fat in its hump and stores water in its stomach.
- B. They have thick lips so it can eat prickly desert plants without feeling pain.
- C. They have black skin colour, so that it absorbs more sun's heat to keep the body warm.
- D. They have long eyelashes and extra transparent eyelid to get rid of sand of the desert.
- E. None of these

Q22. Which bird is most likely to have webbed feet?

[+1]
[-0]



- A. 1
- B. 2
- C. 3
- D. 4
- E. None of these

Q23. A student classified six animals into 2 groups A and B as shown below.

[+1]
[-0]

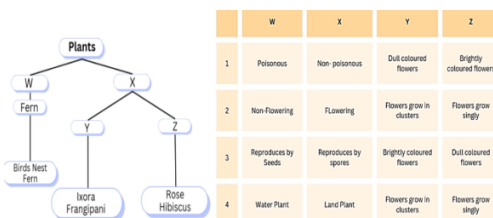
Which characteristic did he use to group the animals?

Animals		Group A	Group B
Group A	Group B	1. Has backbones	No backbones
eagle	crab	2. Land animals	Aquatic animals
snake	millipede	3. Absence of outer shell	Presence of outer shell
platypus	prawn	4. Non-segmented bodies	Segmented bodies

- A. 1
- B. 2
- C. 3
- D. 4
- E. None of these

Q24. Study the classification chart and identify the option which gives the correct heading for W, X, Y and Z.

[+1]
[-0]



- A. 1
- B. 2
- C. 3
- D. 4
- E. None of these

Q25. Which option gives the correct difference between the plant transport system and the human transport system?

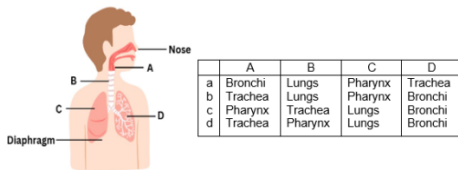
[+1]
[-0]

	Human Transport System	Plant Transport System
Option 1	Does not have tubes to transport materials	Has tubes that transport materials
Option 2	Transports oxygen, digested food, carbon dioxide, water and other materials	Transports only water to other parts of the plant
Option 3	Transports food that has been digested	Transports food produced by the leaves
Option 4	Has lungs to pump blood through the blood vessels	Has veins to pump the materials through the tubes

- A. Option 1
- B. Option 2
- C. Option 3
- D. Option 4
- E. None of these

Q26. Jack learnt respiratory system in school. Next day, when teacher took test, he was able to draw the diagram correctly, but forgot to label. Help him to complete the diagram.

[+1]
[-0]



- A. a
- B. b
- C. c
- D. d
- E. None of these

Q27. Read the following statements and choose the correct option.

[+1]
[-0]

Statement A: Tongue helps us to detect the taste of the food.
Statement B: Tongue helps us to push chewed food into food pipe
Statement C: Tongue helps us to speak clearly

- A. Statement A and B are correct; statement C is incorrect.
- B. All statements are correct.
- C. Statement A and C are correct; statement B is incorrect.
- D. Statement B and C are correct; statement A is incorrect.
- E. None of these

Q28. Consider the following statements and choose the statement(s) which are true.

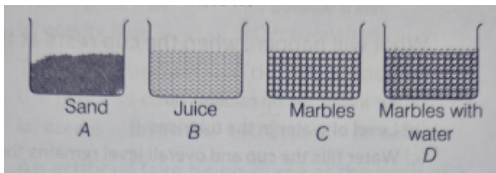
[+1]
[-0]

I. Motion of Earth around the Sun causes variation in seasons.
II. Motion of Moon around the Earth causes variation in seasons.
III. Motion of Moon around the Earth causes changes in day and night.
IV. Motion of Earth around the Sun causes changes in day and night.

- A. I and II
- B. II and III
- C. III and IV
- D. Only I
- E. None of these

Q29. Shalini filled four identical beakers A, B, C and D with different substances up to the same level as shown below.

[+1]
[-0]

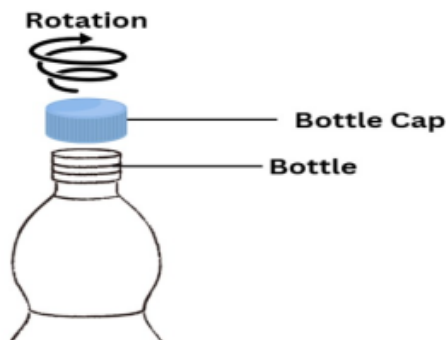


Then she filled each beaker with water up to the brim. Which beaker will require maximum amount of water to get completely filled.

- A. A
- B. B
- C. C
- D. D
- E. None of these

Q30. Which principle of simple machine is used in a bottle cap shown below?

[+1]
[-0]



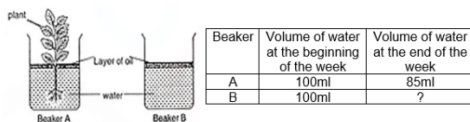
- A. A wedge
- B. Wheel and Axle
- C. Screw
- D. Lever
- E. None of these

Q31. Jack carries out an experiment as shown below. He put a balsam plant in beaker A and no plant in beaker B.

[+1]
[-0]

Both beakers of water have a layer of oil covering it. He then left both set-ups out in the Sun for a week.

He recorded the water level in both beakers at the start of the experiment and at the end of the week. The results are shown in the table below.

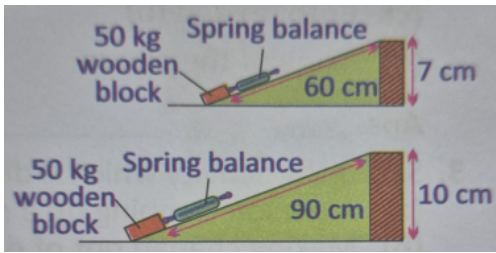


What do you think is the volume of water in Beaker B at the end of the week?

- A. 85ml
- B. 110ml
- C. 90ml
- D. 100ml
- E. None of these

Q32. Suman wants to find out whether the length of a ramp affects the force needed to move wooden block up the ramp. She sets up the given experiment. What should she keep the same?

[+1]
[-0]

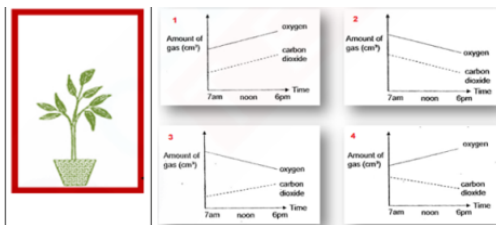


- A. The length of both the ramps
- B. The weight of the spring balance.
- C. The height of both the ramps
- D. Both A and B
- E. None of these

Q33. A potted plant with sufficient amount of water was placed in an air-tight wooden box as shown.

[+1]
[-0]

Which one of the following graphs shows the correct amount of oxygen and carbon dioxide present in the box during the day?



- A. Graph 1
- B. Graph 2
- C. Graph 3
- D. Graph 4
- E. None of these

Q34. Rahul took 100gm of 3 different soils X, Y and Z in three identical pots, each with a hole at the base. He poured 30ml water over these three soils and collected the water dripping from the holes in beakers P, Q and R for soils X, Y and Z respectively. The readings after ten minutes were tabulated as shown below.

[+1]
[-0]

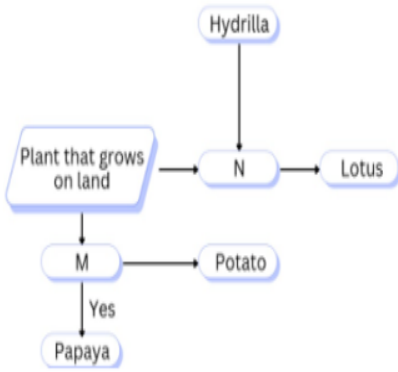
Beaker P	Beaker Q	Beaker R
16ml	22ml	12ml

Identify the type of soils X, Y and Z based on their water retention and select the correct statement about them.

- A. Soil Y is mostly found in deserts 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. All of these
- E. None of these

Q35. In the given flow chart, identify what M and N represent. (Scroll down to view complete question)

[+1]
[-0]



- A. M : Has hard and woody stem , N : Has spores
- B. M : Has eatable fruits , N : Has stomata openings
- C. M : Has large flowers , N : Has long stems
- D. M : Has eatable root , N : Can float on water

- A. A
- B. B
- C. C
- D. D
- E. None of these



CLASS / GRADE

Class 4

SUBJECT

IFSO

TOTAL QUESTIONS

35

MAX MARKS

35

ANSWER SHEET — 35 QUESTIONS

Q01-Q07	ANS	Q08-Q14	ANS	Q15-Q21	ANS	Q22-Q28	ANS	Q29-Q35	ANS
Q01	B	Q08	B	Q15	B	Q22	D	Q29	C
Q02	B	Q09	C	Q16	C	Q23	A	Q30	C
Q03	C	Q10	D	Q17	A	Q24	B	Q31	D
Q04	C	Q11	A	Q18	C	Q25	C	Q32	C
Q05	A	Q12	C	Q19	B	Q26	C	Q33	D
Q06	A	Q13	D	Q20	D	Q27	B	Q34	D
Q07	B	Q14	D	Q21	C	Q28	D	Q35	B

◆ ALL IOF OLYMPIAD PROGRAMMES ◆

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