



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 5

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. Select the pair which shows similar relationship that is shown by the given pair.

[+1]
[-0]

ABC : CDE

- A. LNM : NOQ
- B. PDF : RFH
- C. PQR : QRS
- D. XYZ : ZAX
- E. None of these

Q2. Find the next term in the given series.

[+1]
[-0]

AB3, DE9, GH15, ?

- A. KJ12
- B. JK21
- C. JK12
- D. KJ21
- E. None of these

Q3. Choose the next term to continue the series.

[+1]
[-0]

15, 45, 20, 42, 25, 39, ?

- A. 36
- B. 30
- C. 25
- D. 40
- E. None of these

Q4. Choose the odd one out.

[+1]
[-0]

86N, 25G, 63I, 56J, 41E

- A. 86N
- B. 25G
- C. 63I
- D. 56J
- E. None of these

Q5. If the code of AMONG is BORRL then what will be the code of SLEEP?

[+1]
[-0]

- A. TNNIU
- B. TNHIU
- C. THHIU
- D. TNIIU
- E. None of these

Q6. Which of the following word will come first, if all of these are arranged alphabetically as in a dictionary?

[+1]
[-0]

wasp, waste, wrist, war, worm

- A. Wasp
- B. Waste
- C. Wrist
- D. War
- E. Worm

Q7. Mohini walked 20km towards East, took a left turn and walked 10km. Then, she took right turn and walked 15km. In which direction is she now from the starting point ?

[+1]
[-0]

- A. South-East
- B. North
- C. North-East
- D. West
- E. None of these

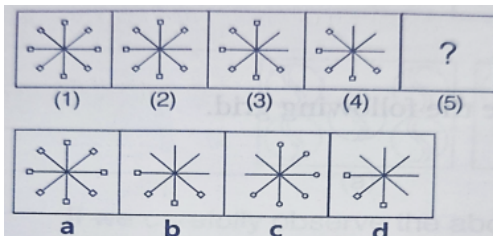
Q8. Pointing to a man in photograph, Radha says, "His father's daughter is my sister". How is Radha related to that man?

[+1]
[-0]

- A. Daughter
- B. Sister
- C. Mother
- D. Sister-in-law
- E. None of these

Q9. Choose the correct option to continue the series.

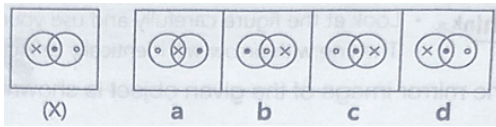
[+1]
[-0]



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

Q10. Choose the correct mirror image of the given figure (X) when mirror is placed vertically on the right side of the figure (X).

[+1]
[-0]



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

Q11. The table below shows the parts of a germinating seedling and their functions.

[+1]
[-0]

Parts of a seedling	Function
P	Supplies food
Q	Forms the root
R	Forms leaves and stem

Which of the following represents P, Q and R?

	P	Q	R
a	Radicle	Cotyledon	Plumule
b	Radicle	Plumule	Cotyledon
c	Cotyledon	Radicle	Plumule
d	Cotyledon	Plumule	Radicle

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

Q12. Use the following diagram of a food chain and identify a secondary consumer.

[+1]
[-0]



- A. Mouse
- B. Bird
- C. Snake
- D. Grass
- E. None of these

Q13. A Venus flytrap is one of a few plants that can eat animals. When a fly or other small animal lands in its trap, the Venus flytrap snaps shut and eats it.

[+1]
[-0]

Venus flytraps can eat

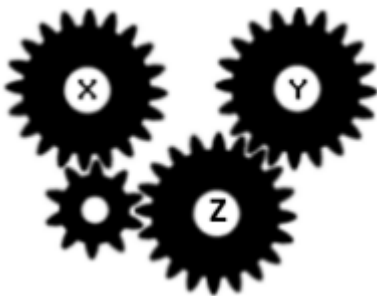


Venus Flytrap

- A. ants, beetles, and birds
- B. flies, ants and spiders
- C. flies, beetles and snake
- D. lizards, beetles and frogs
- E. None of these

Q14. How do gears X and Z turn when gear Y turns in a clockwise direction?

[+1]
[-0]

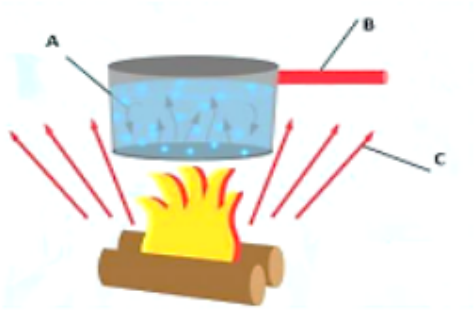


- A. X turns clockwise and Z turns anti-clockwise.
- B. Both X and Z turns clockwise.
- C. X turns anti-clockwise and Z turns clockwise
- D. Both X and Z turns anti-clockwise
- E. None of these

Q15. Use the following diagram to answer the question.

[+1]
[-0]

Name the type of heat transfer taking place at position A in the diagram.

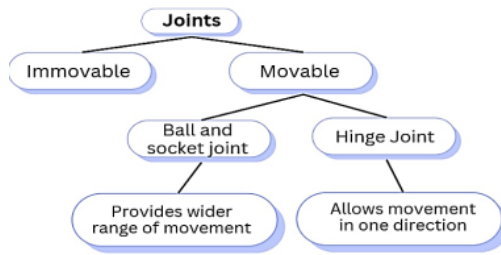


- A. Radiation
- B. Convection
- C. Evaporation
- D. Condensation
- E. None of these

Q16. The table below shows the classification of joints found in human body.

[+1]
[-0]

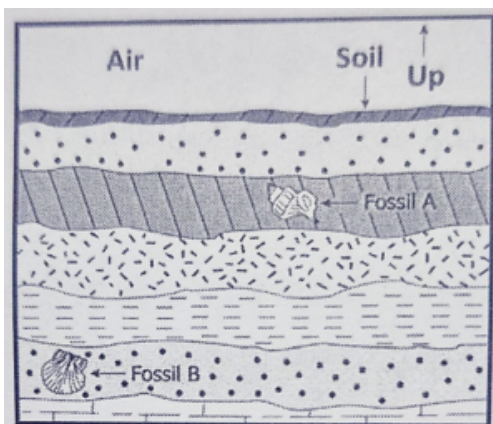
Which of the following can be grouped under the ball and socket joint?



- A. Shoulder joint
- B. Neck joint
- C. Elbow joint
- D. Knee joint
- E. None of these

Q17. When comparing fossil A and fossil B, which of the statements is correct?

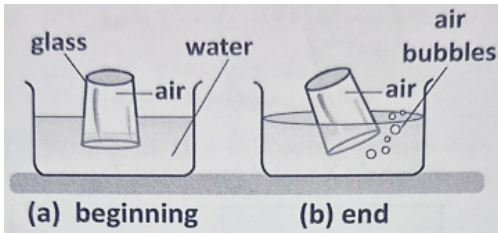
[+1]
[-0]



- A. Fossil B is older than Fossil A
- B. Fossil A is older than Fossil B
- C. Fossil B is metamorphic
- D. Fossil B is a rock
- E. None of these

Q18. An experiment is carried out by a group of students and their results are shown in the given figure.

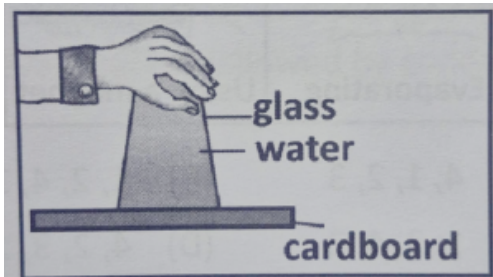
[+1]
[-0]



- A. The air present in the water formed bubbles.
- B. Air inside the glass escaped out in the form of bubbles.
- C. Air in the trough escaped as air bubbles.
- D. Air in the surroundings formed air bubbles.
- E. None of these

Q19. In the figure given below, the water in the glass does not spill out because

[+1]
[-0]



- A. there is a force of attraction between the cardboard and the glass.
- B. the cardboard is water proof.
- C. air is lighter than the cardboard.
- D. air pressure is pushing the cardboard from below
- E. None of the above

Q20. An eclipse occurs because

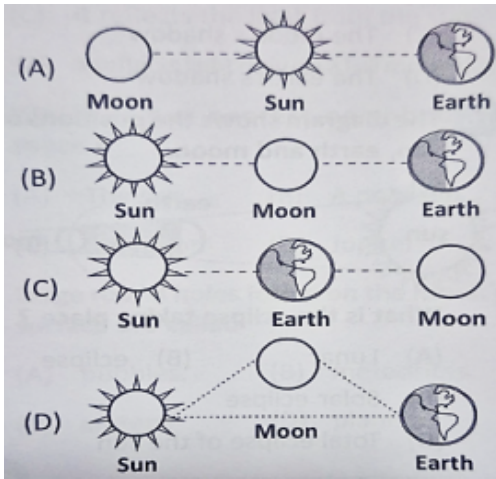
[+1]
[-0]

- | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none">i. Light travels in straight lines.ii. The earth revolves around the sun and the moon revolves around the earthiii. The earth rotates on its axis.iv. The moon reflects sunlight. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

Q21. Which of the following positions of the Sun, the Earth and the Moon represents a lunar eclipse?

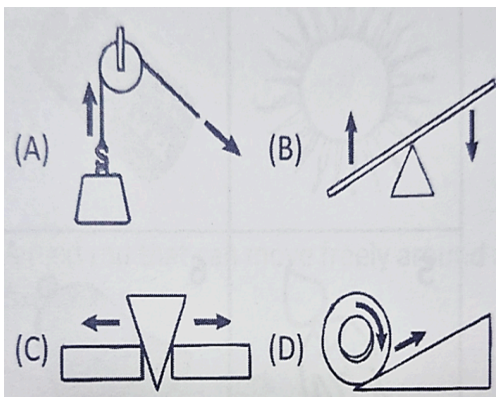
[+1]
[-0]



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

Q22. Which of the following pictures shows how a wedge works?

[+1]
[-0]



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

Q23. Mohit, Rohan and Amit performed an experiment to check, what happens to mass when substances change their state. They placed two ice-cubes in a closed container and recorded the mass of ice before and after melting. Whole setup is shown below. (Scroll down to view the complete question)

[+1]
[-0]

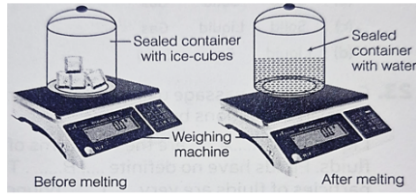
Each of them gave the following statements

Mohit : The mass of container having water will be less than the mass of the container having ice-cube.

Rohan : The mass of container having water will be same as the mass of container having ice-cubes.

Amit : The mass of container having water will be more than the mass of container having ice-cubes.

Who gave the correct statement?



- A. Mohit
- B. Rohan
- C. Amit
- D. All of these
- E. None of these

Q24. Read the following statements and mark True(T) or false (F).

[+1]
[-0]

- I. Silkworms cannot smell their females which are few kilometres away.
- II. Tiger's vision is six times more than humans in night.
- III. Vultures can see four times as far as we can.
- IV. Ants move in zig-zag manner, while following their food.

	I	II	III	IV
a	T	T	F	F
b	T	F	T	F
c	F	T	T	F
d	F	F	T	T

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

Q25. Sohan is lifting a box in the picture. Which three bones of his arms are involved in the act?

[+1]
[-0]



- A. Humerus, radius and ulna
- B. Femur, radius and ulna
- C. Femur, tibia and fibula
- D. Humerus, tibia and fibula
- E. None of these

Q26. Sohan and his friends are playing basketball which is shown below.

[+1]
[-0]

When Sohan throws the basketball in the upward direction, it reaches to its maximum height and then falls back. What happens to its kinetic energy at the highest point ?



- A. It becomes maximum
- B. It becomes half
- C. It becomes zero
- D. Ball does not have any kinetic energy
- E. None of these

Q27. Aniket wrapped two bars X and Y of same dimensions with a paper which is also of equal dimensions. Then, he heated both the bars for 10 min. To his surprise paper on bar X was burnt but not the paper on bar Y. Whole setup is shown below: (Scroll down to view the complete question)

[+1]
[-0]

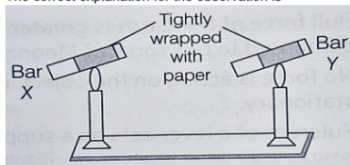
P. X is a better conductor of heat as it conducted heat away from the paper to the surrounding air more quickly.

Q. X is an insulator of heat as it conducted heat away from the paper to the surrounding air more slowly.

R. Y is a better conductor of heat as it conducted heat from the flame to the paper more quickly.

S. Y is an insulator of heat as it conducted heat away from the paper more slowly.

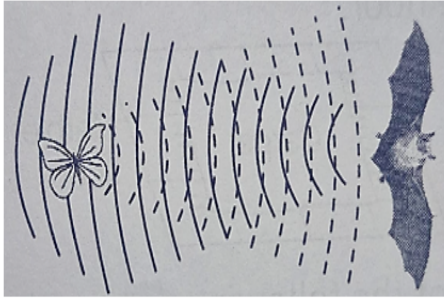
The correct explanation for the observation is



- A. P and R
- B. Q and R
- C. P and S
- D. Q and S
- E. None of these

Q28. Observe the phenomenon of sound shown in the figure below.

[+1]
[-0]



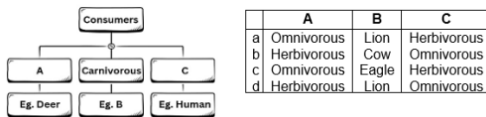
Which phenomenon is depicted here?

- P. Sound travels in straight line.
- Q. Sound echoes.
- R. Sound travels in form of arcs.

- A. Only P
- B. Only Q
- C. Only R
- D. All of these
- E. None of these

Q29. Fill up the following flow chart.

[+1]
[-0]



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

Q30. Animal P hatches from eggs at a place Q and goes to R to spend its life. When reproduction time comes, it goes back to Q, lays eggs and then dies.

[+1]
[-0]

Choose the correct option regarding it.

	P	Q	R
a	Penguin	South Pole	North Pole
b	Siberian crane	Western Siberia	India
c	Salmon	River	Ocean
d	Arctic tern	North Pole	South Pole

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

Q31. The figure given below shows a boy doing fishing. Which of the following options describes the parts of the given figure correctly?

[+1]
[-0]

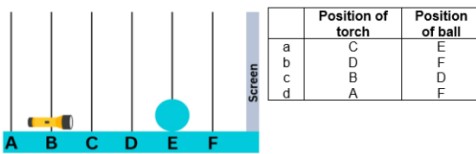


	A	B	C
a	Effort	Load	Fulcrum
b	Fulcrum	Load	Effort
c	Load	Effort	Fulcrum
d	Effort	Fulcrum	Load

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

Q32. Observe the setup shown below. A torch, a ball and a screen are placed on the table with positions marked on it as A, B, C, F. When the torch is switched on, a shadow is cast on the screen. Which of the following option correctly shows the position of torch and ball so as to get the smallest possible shadow on the screen?

[+1]
[-0]



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

Q33. Choose the correct statement in context with speed of sound waves.

[+1]
[-0]

- I. Speed of sound is highest in air and least in water.
- II. Speed of sound is highest in water and least in air.
- III. Speed of sound is highest in solids and least in air.

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

Q34. Read the following statements and choose correct option.

[+1]
[-0]

- Statement I : Plants do not grow well in a greenhouse.
- Statement II : Gradual increase in global warming will change the Earth's climate for worse.
- Statement III. Carbon dioxide, water vapours, methane trap solar heat and makes atmospheres warm.

- A. Statement I is incorrect, statements II and III are correct.
- B. Statement II is incorrect, statements I and III are correct.
- C. Statement III is incorrect, statements I and II are correct.
- D. All of the above statements are correct.
- E. None of these

Q35. In which of the following processes, condensation has taken place?

[+1]
[-0]

- I. Wet laundry drying in the sun.
- II. A pot of cold water heating upon a stove.
- III. A cloud appearing when the door of the freezer was opened.
- IV. Water droplets appearing on the mirror in the bathroom when hot water was turned on.
- V. Perspiration disappearing from your forehead when you sit down to rest after playing.

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



CLASS / GRADE

Class 5

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

◆ ALL IOF OLYMPIAD PROGRAMMES ◆

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