

GENERAL KNOWLEDGE & INTELLIGENCE OLYMPIAD

Level 2 • Classes 6–8 • Question Paper

Student
Name

School

Roll No.

Class /
Section

Time: 90 Minutes

Maximum Marks: 150

Questions: 50

General Instructions

1. All 50 questions are compulsory.
2. Each question has four options; select the one best answer.
3. Marking scheme: +3 for a correct answer, –1 for an incorrect answer and 0 for an unattempted question.
4. Mark responses clearly on the OMR sheet supplied by the school.
5. Do not use a calculator, mobile phone or other electronic aid.

1. India's National Emblem is adapted from which historical sculpture?

- A. The Great Stupa at Sanchi
- B. The Iron Pillar at Delhi
- C. The Lion Capital of Ashoka at Sarnath
- D. The Gateway of India

2. Read the constitutional ideas below: (I) citizens may follow and practise a religion of their choice; (II) the State does not establish an official religion; (III) the State may regulate secular activities connected with religion. Which constitutional principle is best represented by all three?

- A. Federalism
- B. Secularism
- C. Judicial review
- D. Universal adult franchise

3. A village needs to raise a local issue through the elected body at village level. Which institution should it approach?

- A. Lok Sabha
- B. Rajya Sabha
- C. Gram Panchayat
- D. Municipal Corporation

4. Fundamental Duties were added to the Constitution of India by which amendment?

- A. 24th Amendment
- B. 42nd Amendment
- C. 44th Amendment
- D. 73rd Amendment

5. Which site is famous for a well-planned dockyard of the Harappan civilisation?

- A. Kalibangan
- B. Lothal
- C. Harappa
- D. Rakhigarhi

6. An archaeological team studies the remains of an ancient residential university supported by Gupta and Pala rulers, visited by Xuanzang, and later recognised as a UNESCO World Heritage Site in Bihar. Which centre are they studying?

- A. Takshashila
- B. Nalanda
- C. Vikramashila
- D. Vallabhi

7. A historian compares two nationalist actions: Action X involved surrendering titles and boycotting government institutions; Action Y began with breaking the salt law and expanded into refusal to obey selected colonial laws.

Which pair correctly identifies X and Y?

- A. X: Swadeshi Movement; Y: Quit India Movement
- B. X: Non-Cooperation Movement; Y: Civil Disobedience Movement
- C. X: Civil Disobedience Movement; Y: Non-Cooperation Movement
- D. X: Quit India Movement; Y: Swadeshi Movement

8. Arrange these events from earliest to latest: 1. Revolt of 1857 2. Dandi March 3. Formation of the Indian National Congress 4. Quit India Movement

- A. 3, 1, 4, 2
- B. 1, 2, 3, 4
- C. 3, 1, 2, 4
- D. 1, 3, 2, 4

9. During a parliamentary sitting, members ask ministers questions about their departments. What is this scheduled period called?

- A. Zero Hour
- B. Adjournment Hour
- C. Question Hour
- D. Budget Hour

10. A report examines whether money approved by Parliament was spent legally and efficiently by Union ministries. Which constitutional authority prepares such audit reports?

- A. Comptroller and Auditor General of India
- B. Election Commission of India
- C. Finance Commission
- D. NITI Aayog

11. Which is the largest ocean on Earth?

- A. Atlantic Ocean
- B. Indian Ocean
- C. Pacific Ocean
- D. Arctic Ocean

12. A research ship travels from 12°N, 72°E to 8°S, 72°E. Which description of its route is correct?

- A. It moves east across the Prime Meridian
- B. It moves south across the Equator while remaining on the same longitude
- C. It moves north and crosses the International Date Line
- D. It remains entirely in the Northern Hemisphere

13. Which layer of the atmosphere contains most of Earth's weather?

- A. Troposphere
- B. Mesosphere
- C. Thermosphere
- D. Exosphere

14. City P is at 75°E and City Q is at 90°E. Ignoring official time zones, which city experiences solar noon first?

- A. City P, because it is farther west
- B. Both at the same time
- C. It cannot be determined
- D. City Q, because it is farther east

15. A river carries fine soil from mountains and deposits it over a broad plain. Which landform is most likely created over time?

- A. Volcanic plateau
- B. Alluvial plain
- C. Sand dune
- D. Glacial valley

16. A coastal region records falling air pressure, very strong circular winds and intense rainfall over warm tropical seas. Which hazard is approaching?

- A. Tropical cyclone
- B. Drought
- C. Heat wave
- D. Avalanche

17. Why do densely forested slopes generally suffer less soil erosion than bare slopes during heavy rain?

- A. Trees stop all rainfall from reaching soil
- B. Forests make slopes completely flat
- C. Leaves turn soil into rock
- D. Roots bind soil and vegetation slows surface runoff

18. A map scale is 1 : 500,000. Two towns are 6 cm apart on the map. What is their actual straight-line distance?

- A. 3 km
- B. 30 km
- C. 300 km
- D. 3,000 km

19. Which gas is present in the greatest proportion in Earth's atmosphere?

- A. Nitrogen
- B. Oxygen
- C. Carbon dioxide
- D. Argon

20. A school replaces twenty 60 W bulbs with twenty 10 W LED bulbs. All bulbs operate for 5 hours each school day. How much electrical energy is saved per school day?

- A. 5 kWh
- B. 1 kWh
- C. 10 kWh
- D. 50 kWh

21. A farmer wants to improve soil nitrogen without adding synthetic fertiliser. Which crop is most useful in rotation?

- A. Pea
- B. Wheat
- C. Maize
- D. Sugarcane

22. A pond receives fertiliser-rich runoff. Algae multiply rapidly, and later many fish die. What most directly causes the fish deaths?

- A. Too much salt enters the pond
- B. Water becomes completely transparent
- C. Fish receive too much sunlight
- D. Decomposition uses up dissolved oxygen

23. Four identical seedlings receive equal light. P gets 10 mL water daily, Q gets 30 mL, R gets 60 mL, and S gets 120 mL. Q grows best. What is the strongest conclusion?

- A. For these seedlings and conditions, 30 mL was closest to the optimum tested
- B. All plants need exactly 30 mL water
- C. More water always increases growth
- D. Light had no effect on growth

24. What is the main function of a web browser?

- A. To create electricity
- B. To access and display content on the World Wide Web
- C. To repair computer hardware
- D. To measure internet cable length

25. A student receives an urgent message: 'Your school account will close today. Click this shortened link and enter your password.' The display name looks official, but the sender address is unfamiliar. What is the safest response?

- A. Open the link but do not download anything
- B. Reply with the password so the account stays active
- C. Verify through the school's official contact or portal without using the message link
- D. Forward the message to classmates for confirmation

26. A robot follows: move 2 steps forward, turn right, move 2 steps, turn right, and repeat twice more. What path does it trace?

- A. A triangle
- B. A square
- C. A straight line
- D. A circle

27. A city records PM_{2.5} levels of 42, 68, 91 and 55 µg/m³ on four days. Which statement is supported by the data?

- A. Air quality improved every day
- B. The four-day average was 91 µg/m³
- C. Day 3 had the highest recorded PM_{2.5}
- D. Day 1 and Day 4 had equal levels

28. Which statement most accurately explains why an energy source can be renewable but still have environmental impacts?

- A. Renewable sources never require land or materials
- B. Every renewable source releases more carbon than coal
- C. An energy source is renewable only when it produces no waste
- D. Renewability concerns natural replenishment, while installations may still affect habitats and use resources

29. Who wrote the Indian national anthem, 'Jana Gana Mana'?

- A. Rabindranath Tagore
- B. Bankim Chandra Chattopadhyay
- C. Sarojini Naidu
- D. Subramania Bharati

30. Which combination of clues correctly identifies Sattriya?

- A. Temple dance of Odisha; tribhanga posture
- B. Dance-drama of Kerala; elaborate painted masks
- C. Court dance of northern India; rapid chakkars
- D. Vaishnav monastery tradition of Assam; developed in sattras

31. A performance uses elaborate facial makeup, large headgear and stories from Indian epics, traditionally in Kerala. Which dance-drama is it?

- A. Kathakali
- B. Kathak
- C. Manipuri
- D. Odissi

32. A story places one animal tale inside another and uses the characters' choices to teach practical wisdom about friendship, conflict and leadership. Which literary tradition does this structure most strongly resemble?

- A. A modern scientific biography
- B. A royal inscription
- C. A travel gazetteer
- D. The Panchatantra

33. Consider these festival–state pairs: 1. Bihu–Assam 2. Garba–Gujarat 3. Onam–Kerala 4. Hornbill Festival–Nagaland. Which option is correct?

- A. All four
- B. Only 1 and 2
- C. Only 2 and 3
- D. Only 1, 3 and 4

34. A manuscript is written from right to left in a Perso-Arabic script and contains couplets called shers. Which literary form is most likely represented?

- A. Ghazal
- B. Haiku
- C. Sonnet
- D. Limerick

35. How many players from one team are on the court at a time in basketball?

- A. 6
- B. 5
- C. 7
- D. 11

36. A cricket team needs 17 runs from the final 3 legal balls. The batter hits a six, then a four, and the next delivery is a no-ball hit for another four. How many runs are still needed, and how many legal balls remain?

- A. 1 run from 1 ball
- B. 2 runs from 0 balls
- C. 2 runs from 1 ball
- D. 3 runs from 1 ball

37. After floods, a UN agency supplies vaccines, safe-water kits and temporary learning materials specifically for children. Which agency's mandate best fits this response?

- A. UNESCO
- B. International Monetary Fund
- C. UNICEF
- D. International Court of Justice

38. In a round-robin group, Team A has 2 wins and 1 loss; Team B has 1 win and 2 draws; Team C has 1 win, 1 draw and 1 loss. Using 3 points for a win and 1 for a draw, which team has the most points?

- A. Team B
- B. Team C
- C. Teams A and B are tied
- D. Team A

39. Which organisation-headquarters pair is correctly matched?

- A. United Nations — Geneva
- B. UNESCO — New York
- C. World Health Organization — Geneva
- D. International Court of Justice — Paris

40. Country X lies entirely in the Southern Hemisphere, is crossed by the Tropic of Capricorn, has the Great Dividing Range, and occupies most of a continent. Which country is X?

- A. South Africa
- B. Brazil
- C. Australia
- D. New Zealand

41. What comes next in the sequence: 3, 6, 12, 24, ____?

- A. 30
- B. 36
- C. 48
- D. 42

42. If SCHOOL is coded as TDIPPM by moving every letter one step forward in the alphabet, how is BOOK coded?

- A. ANNJ
- B. CQQM
- C. DPPM
- D. CPPL

43. A library recorded books borrowed: Monday 40, Tuesday 55, Wednesday 35, Thursday 60. On which day were 20 more books borrowed than on Wednesday?

- A. Monday
- B. Thursday
- C. No day
- D. Tuesday

44. Riya faces north. She turns right, walks 5 m, turns left, walks 3 m, then turns left. Which direction is she now facing?

- A. North
- B. West
- C. South
- D. East

45. Find the odd one out.

- A. 125
- B. 64
- C. 81
- D. 100

46. In a survey, 18 students chose chess, 12 chose badminton and 10 chose both. How many chose at least one of the two games?

- A. 30
- B. 40
- C. 10
- D. 20

47. If all ZORPS are LEMS and no LEMS are TAVS, which statement must be true?

- A. Some ZORPS are TAVS
- B. All TAVS are ZORPS
- C. Some LEMS are not ZORPS
- D. No ZORPS are TAVS

48. A train leaves at 09:35 and arrives at 12:20. The journey includes a 15-minute stop. For how long was the train moving?

- A. 2 h 35 min
- B. 2 h 45 min
- C. 2 h 30 min
- D. 3 h

49. A shop reduces a ₹800 school bag by 15%. What is the sale price?

- A. ₹660
- B. ₹680
- C. ₹700
- D. ₹720

50. A 3×3 number grid has rows 2, 7, 6; 9, 5, 1; and 4, 3, _____. Every row and column must total 15. Which number completes the grid?

- A. 8
- B. 5
- C. 7
- D. 9

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Level 2 • Answer Key

Assessment specification

50 MCQs • 150 marks • 90 minutes • +3 correct • -1 incorrect • 0 unattempted

Question-wise answer key and classification

Q	Ans.	Domain	SAI Lens	Difficulty	Marks	Rationale
1	C	India & Civics	Conceptual Understanding	Easy	3	The State Emblem of India is adapted from the Lion Capital of Ashoka at Sarnath.
2	B	India & Civics	Conceptual Understanding	Hard	3	Indian secularism protects freedom of religion while permitting the State to regulate secular activities associated with it.
3	C	India & Civics	Application	Easy	3	The Gram Panchayat is the elected local body at village level.
4	B	India & Civics	Conceptual Understanding	Hard	3	The 42nd Constitutional Amendment Act, 1976 added Fundamental Duties.
5	B	India & History	Conceptual Understanding	Easy	3	Lothal in present-day Gujarat is noted for its dockyard.
6	B	India & History	Conceptual Understanding	Medium	3	The combined clues—Bihar, Xuanzang, Gupta—Pala patronage and UNESCO status—identify Nalanda.
7	B	India & History	Application	Hard	3	Boycotts and surrender of titles characterised Non-Cooperation, while violation of the salt law launched Civil Disobedience.
8	D	India & History	Reasoning	Medium	3	1857 Revolt; INC formed in 1885; Dandi March in 1930; Quit India in 1942.
9	C	India & Civics	Interpretation / Case Study	Medium	3	Question Hour is the scheduled period for members to question ministers.
10	A	India & Civics	Application	Hard	3	The CAG audits government receipts and expenditure and reports to the legislature.
11	C	Geography	Conceptual Understanding	Easy	3	The Pacific is Earth's

Q	Ans.	Domain	SAI Lens	Difficulty	Marks	Rationale
						largest ocean.
12	B	Geography	Application	Medium	3	Latitude changes from north to south across 0°, while longitude remains 72°E.
13	A	Geography	Conceptual Understanding	Easy	3	Weather occurs mainly in the troposphere.
14	D	Geography	Reasoning	Medium	3	Earth rotates west to east, so locations farther east experience solar noon earlier.
15	B	Geography	Reasoning	Medium	3	River-deposited sediments build alluvial plains.
16	A	Geography	Interpretation / Case Study	Hard	3	These are characteristic signs of a tropical cyclone.
17	D	Geography	Reasoning	Medium	3	Roots stabilise soil while plant cover reduces runoff speed and impact.
18	B	Geography	Application	Hard	3	$6 \times 500,000 \text{ cm} = 3,000,000 \text{ cm} = 30 \text{ km}$.
19	A	Science & Environment	Conceptual Understanding	Easy	3	Nitrogen makes up about 78% of the atmosphere.
20	A	Science & Environment	Application	Hard	3	Power saved is $20 \times 50 \text{ W} = 1,000 \text{ W} = 1 \text{ kW}$; over 5 hours, the saving is 5 kWh.
21	A	Science & Environment	Application	Medium	3	Legumes such as pea host nitrogen-fixing bacteria in root nodules.
22	D	Science & Environment	Interpretation / Case Study	Medium	3	Microbial decomposition of the algal bloom consumes dissolved oxygen.
23	A	Science & Environment	Interpretation / Case Study	Hard	3	The evidence supports only the tested seedlings and conditions, not a universal amount.
24	B	Science & Technology	Conceptual Understanding	Easy	3	A browser retrieves and displays web content.
25	C	Science & Technology	Application	Medium	3	The unfamiliar address and urgency are phishing signs; verification should use an independently trusted channel.
26	B	Science & Technology	Reasoning	Medium	3	Four equal moves with four right turns form a square.
27	C	Science & Environment	Interpretation / Case Study	Hard	3	Among the four values, 91 on Day 3 is the highest.

Q	Ans.	Domain	SAI Lens	Difficulty	Marks	Rationale
28	D	Science & Environment	Conceptual Understanding	Hard	3	Renewability describes replenishment rate; construction, land use and material extraction can still create impacts.
29	A	Culture & Literature	Conceptual Understanding	Easy	3	Rabindranath Tagore composed 'Jana Gana Mana'.
30	D	Culture & Literature	Conceptual Understanding	Medium	3	Sattriya developed within Assam's Vaishnav monasteries, called sattras.
31	A	Culture & Literature	Application	Medium	3	Kathakali is Kerala's classical dance-drama known for stylised makeup and costume.
32	D	Culture & Literature	Conceptual Understanding	Hard	3	The Panchatantra is known for nested animal fables that convey practical and moral instruction.
33	A	Culture & Literature	Reasoning	Medium	3	All four festivals are correctly matched with their associated states.
34	A	Culture & Literature	Reasoning	Hard	3	A ghazal consists of rhyming couplets called shers and is commonly written in scripts including Perso-Arabic Urdu.
35	B	Sports & Institutions	Conceptual Understanding	Easy	3	A basketball team fields five players on court.
36	C	Sports & Institutions	Application	Medium	3	The no-ball plus boundary scores 5 and does not count as a legal ball: $6 + 4 + 5 = 15$, leaving 2 runs with 1 legal ball.
37	C	World Knowledge	Conceptual Understanding	Medium	3	UNICEF works for children's health, nutrition, protection, water and education, including in emergencies.
38	D	Sports & Institutions	Interpretation / Case Study	Hard	3	A has 6 points; B has 5; C has 4.
39	C	World Knowledge	Reasoning	Medium	3	WHO is headquartered in Geneva.
40	C	World Knowledge	Reasoning	Medium	3	All four geographic clues identify Australia.
41	C	Mental Ability	Reasoning	Easy	3	Each term is double the preceding term.
42	D	Mental Ability	Application	Medium	3	$B \rightarrow C$, $O \rightarrow P$, $O \rightarrow P$, $K \rightarrow L$.
43	D	Mental Ability	Interpretation / Case Study	Medium	3	$35 + 20 = 55$, the

Q	Ans.	Domain	SAI Lens	Difficulty	Marks	Rationale
						Tuesday value.
44	B	Mental Ability	Application	Medium	3	North $\rightarrow$ right/east $\rightarrow$ left/north $\rightarrow$ left/west.
45	A	Mental Ability	Reasoning	Medium	3	64, 81 and 100 are perfect squares; 125 is not a perfect square.
46	D	Mental Ability	Interpretation / Case Study	Medium	3	Using inclusion–exclusion: $18 + 12 - 10 = 20$.
47	D	Mental Ability	Reasoning	Hard	3	Because every ZORP is a LEM and no LEM is a TAV, no ZORP can be a TAV.
48	C	Mental Ability	Interpretation / Case Study	Medium	3	Elapsed time is 2 h 45 min; subtracting the stop gives 2 h 30 min.
49	B	Mental Ability	Application	Medium	3	15% of ₹800 is ₹120; ₹800 – ₹120 = ₹680.
50	A	Mental Ability	Interpretation / Case Study	Hard	3	The last row requires $4 + 3 + 8 = 15$; the last column also becomes $6 + 1 + 8 = 15$.