



FCO ASSESSMENT FOUNDATION

Section 8 Non-Profit Organisation • FCO 2026-27 Scholarship Assessment

SAMPLE QUESTION PAPER — CLASS 9

Advanced Level • Assessment Window: January 2027

Total Questions	100 (Multiple Choice)
Maximum Marks	100
Duration	90 minutes
Marking Scheme	1 mark per correct answer • No negative marking
Medium	English
Answer Key	Provided at the end of this paper

Paper Structure

Section	Area Assessed	Questions	Marks
Section A	Subject Knowledge	1 – 20	20
Section B	Reasoning & Mathematics	21 – 40	20
Section C	General Knowledge & Current Awareness	41 – 60	20
Section D	Future Skills, Technology & AI Awareness	61 – 100	40

General Instructions

1. All questions are compulsory. Each question carries one mark.
2. Each question has four options; exactly one option is correct.
3. Darken only one circle per question on the OMR sheet. Multiple marks will be treated as incorrect.
4. Use a blue or black ballpoint pen. Rough work may be done on the space provided in the booklet.
5. Calculators, mobile phones and smart devices are not permitted in the examination hall.
6. This is a sample paper for practice. The actual paper will follow the same structure and difficulty.

FCO is a year-long student development journey. Every registered learner receives a detailed skill report, personalised guidance and continuous support through the assessment year — not just a score.

Section A — Subject Knowledge

Questions 1 to 20 • 20 marks

1. Which force keeps a satellite moving in a circular orbit around Earth?

- (A) Magnetic force (B) Electrostatic force
(C) Frictional force (D) Gravitational force

2. Newton's first law of motion is also known as the law of

- (A) Gravitation (B) Inertia
(C) Momentum (D) Acceleration

3. The SI unit of force is

- (A) Pascal (B) Joule
(C) Newton (D) Watt

4. Which of the following is the basic structural and functional unit of life?

- (A) Cell (B) Tissue
(C) Organelle (D) Organ

5. Which tissue is responsible for transport of water in plants?

- (A) Xylem (B) Parenchyma
(C) Collenchyma (D) Phloem

6. The number of neutrons in an atom of an element is called its

- (A) Isotope number (B) Mass number
(C) Valency (D) Atomic number

7. Isotopes of an element have the same number of protons but different number of

- (A) Valence electrons (B) Electrons
(C) Protons (D) Neutrons

8. Which of these is a noun clause in the sentence: "I know that he is honest"?

- (A) is honest (B) I know
(C) that he is honest (D) he is honest

9. Choose the correctly punctuated sentence.

- (A) Where are you going.
(B) Where are you going!
(C) where are you going?
(D) Where are you going?

10. The antonym of the word "diligent" is

- (A) Sincere (B) Active
(C) Hardworking (D) Lazy

11. The French Revolution began in the year

- (A) 1804 (B) 1789
(C) 1857 (D) 1776

12. Which type of government is characterized by rule of the people?

- (A) Monarchy (B) Dictatorship
(C) Theocracy (D) Democracy

13. The Palampur village study in Class 9 Economics deals with

- (A) Urban industries (B) International trade
(C) Production activities in a village
(D) Stock markets

14. Which layer of the atmosphere contains the ozone layer?

- (A) Troposphere (B) Mesosphere
(C) Thermosphere (D) Stratosphere

15. The process by which plants lose water in the form of vapour is called

- (A) Excretion (B) Photosynthesis
(C) Respiration (D) Transpiration

16. Sound cannot travel through

- (A) Solids (B) Liquids
(C) Gases (D) Vacuum

17. Which organelle is known as the powerhouse of the cell?

- (A) Mitochondria (B) Golgi body
(C) Nucleus (D) Ribosome

18. The chapter "Constitutional Design" in Class 9 discusses the making of India's

- (A) Parliament (B) Election Commission
(C) Judiciary (D) Constitution

19. Which figure of speech compares two things using "like" or "as"?

- (A) Simile (B) Metaphor
(C) Hyperbole (D) Personification

20. The powerhouse for democratic government formation is decided through

- (A) Nomination (B) Elections
(C) Lottery (D) Census

Section B — Reasoning & Mathematics

Questions 21 to 40 • 20 marks

21. If $p(x) = x^2 - 5x + 6$, what are the zeroes of $p(x)$?

- (A) -2 and -3 (B) 2 and 3
(C) 1 and 6 (D) 2 and -3

22. The degree of the polynomial $4x^3 + 3x^2 - 7$ is

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

23. In coordinate geometry, the point (0,0) is called the

- (A) Abscissa (B) Quadrant
(C) Axis (D) Origin

24. The abscissa of a point (4, 7) is

- (A) 28 (B) 4
(C) 7 (D) 11

25. Find the mean of the data: 2, 4, 6, 8, 10.

- (A) 8 (B) 7
(C) 6 (D) 5

26. Which quadrant has both x and y coordinates negative?

- (A) Fourth (B) First
(C) Second (D) Third

27. If the mean of 5 numbers is 20, what is their sum?

- (A) 4 (B) 20
(C) 25 (D) 100

28. A number is divisible by 9 if the sum of its digits is divisible by

- (A) 3 (B) 9
(C) 6 (D) 12

29. Two lines that never meet are called

- (A) Parallel lines (B) Transversal lines
(C) Intersecting lines (D) Perpendicular lines

30. The next number in the series 2, 6, 12, 20, 30, ___ is

- (A) 44 (B) 36
(C) 40 (D) 42

31. If a train travels 300 km in 5 hours, its average speed is

- (A) 55 km/h (B) 50 km/h
(C) 70 km/h (D) 60 km/h

32. Ravi is taller than Sam but shorter than Tom. Who is the tallest?

- (A) Sam (B) Tom
(C) Ravi (D) Cannot be determined

33. The value of x in $2x + 5 = 15$ is

- (A) 7.5 (B) 10
(C) 5 (D) 4

34. A linear equation in two variables has how many solutions in general?

- (A) None (B) Two
(C) Infinitely many (D) One

35. Which of the following is a rational number?

- (A) Square root of 2 (B) Pi
(C) $\frac{3}{4}$ (D) Square root of 5

36. Statistics deals mainly with the collection, organisation and interpretation of

- (A) Sounds (B) Data
(C) Colours (D) Words

37. The median of the data 3, 5, 7, 9, 11 is

- (A) 11 (B) 7
(C) 9 (D) 5

38. If two angles are complementary, their sum equals

- (A) 45 degrees (B) 90 degrees
(C) 360 degrees (D) 180 degrees

39. Find the odd one out: Square, Rectangle, Triangle, Rhombus.

- (A) Square (B) Rhombus
(C) Rectangle (D) Triangle

40. A shopkeeper marks up an item by 20% and then gives a 10% discount. The net effect is a gain of

- (A) 10% (B) 12%
(C) 20% (D) 8%

Section C — General Knowledge & Current Awareness

Questions 41 to 60 • 20 marks

41. Who is the current Prime Minister of India as of 2024?

- | | |
|------------------|--------------------|
| (A) Rahul Gandhi | (B) Manmohan Singh |
| (C) Amit Shah | (D) Narendra Modi |

42. Which Indian mission successfully landed near the Moon's south pole in 2023?

- | | |
|-------------------|-------------------|
| (A) Chandrayaan-3 | (B) Gaganyaan |
| (C) Mangalyaan | (D) Chandrayaan-2 |

43. The headquarters of the United Nations is located in

- | | |
|------------|--------------|
| (A) London | (B) Paris |
| (C) Geneva | (D) New York |

44. Which country hosted the G20 Summit in 2023?

- | | |
|------------|-----------|
| (A) Brazil | (B) India |
| (C) China | (D) USA |

45. The national game of India is officially

- | | |
|-----------------------------|--------------|
| (A) Hockey | (B) Football |
| (C) Not officially declared | (D) Cricket |

46. Who won the ICC Cricket World Cup 2023?

- | | |
|-----------------|---------------|
| (A) England | (B) India |
| (C) New Zealand | (D) Australia |

47. The currency of Japan is called the

- | | |
|-------------|----------|
| (A) Ringgit | (B) Won |
| (C) Yen | (D) Yuan |

48. Which gas is primarily responsible for global warming?

- | | |
|--------------------|--------------|
| (A) Carbon dioxide | (B) Helium |
| (C) Oxygen | (D) Nitrogen |

49. The Indian Parliament consists of the President, Lok Sabha and

- | | |
|-------------------------|------------------|
| (A) Supreme Court | (B) Vidhan Sabha |
| (C) Election Commission | (D) Rajya Sabha |

50. Which Indian state is known as the "Spice Garden of India"?

- | | |
|---------------|-------------|
| (A) Punjab | (B) Gujarat |
| (C) Rajasthan | (D) Kerala |

51. The Nobel Peace Prize is awarded in which city?

- | | |
|----------------|---------------|
| (A) Oslo | (B) Geneva |
| (C) Copenhagen | (D) Stockholm |

52. Which is the longest river in India?

- | | |
|-----------------|--------------|
| (A) Yamuna | (B) Ganga |
| (C) Brahmaputra | (D) Godavari |

53. ISRO stands for

- | | |
|---|--|
| (A) Indian Satellite Research Office | (B) Indian Science Research Organisation |
| (C) International Space Research Organisation | (D) Indian Space Research Organisation |

54. The Beti Bachao Beti Padhao scheme aims to

- | | |
|--|-------------------------|
| (A) Promote female education and welfare | (B) Boost exports |
| (C) Increase agricultural output | (D) Improve road safety |

55. Which country is the largest producer of solar energy in the world (installed capacity leaders)?

- | | |
|-----------|-------------|
| (A) India | (B) Germany |
| (C) China | (D) USA |

56. World Environment Day is celebrated on

- | | |
|---------------|--------------|
| (A) October 2 | (B) June 5 |
| (C) March 22 | (D) April 22 |

57. Which Indian scheme focuses on financial inclusion through zero-balance bank accounts?

- | | |
|---------------------|---------------------|
| (A) Skill India | (B) Ayushman Bharat |
| (C) Jan Dhan Yojana | (D) Digital India |

58. The 2023 Cricket World Cup was hosted by

- | | |
|-------------|------------------|
| (A) India | (B) South Africa |
| (C) England | (D) Australia |

59. Which is the smallest continent by land area?

- | | |
|----------------|-------------------|
| (A) Europe | (B) Australia |
| (C) Antarctica | (D) South America |

60. The Reserve Bank of India regulates the country's

- | | |
|----------------------|--------------------------|
| (A) Elections | (B) Judiciary |
| (C) Education policy | (D) Currency and banking |

Section D — Future Skills, Technology & AI Awareness

Questions 61 to 100 • 40 marks

61. Which of these devices uses artificial intelligence to answer spoken questions?

- | | |
|-----------------------|----------------|
| (A) A voice assistant | (B) A stapler |
| (C) A wall clock | (D) A hand fan |

62. What does AI stand for?

- | | |
|-----------------------------|------------------------|
| (A) Artificial Intelligence | (B) Automated Input |
| (C) Analytical Insight | (D) Advanced Interface |

63. Machine learning is a subset of

- | | |
|-----------------------------|---------------------|
| (A) Robotics | (B) Blockchain |
| (C) Artificial Intelligence | (D) Cloud computing |

64. Which of the following is an example of supervised learning?

- | | |
|--------------------------|--|
| (A) Random data grouping | (B) Clustering customers |
| (C) Data compression | (D) Predicting house prices using labeled data |

65. A chatbot like ChatGPT primarily uses which type of model?

- | | |
|---------------------------|--------------------------|
| (A) Database query engine | (B) Large Language Model |
| (C) Spreadsheet software | (D) Antivirus software |

66. Which term describes data that trains a machine learning model?

- | | |
|-----------------|-------------------|
| (A) Cache data | (B) Metadata |
| (C) Output data | (D) Training data |

67. Cybersecurity primarily aims to protect

- | | |
|---------------------------|---|
| (A) Only hardware | (B) Systems, networks and data from attacks |
| (C) Physical office space | (D) Only software licenses |

68. A strong password should ideally include

- | | |
|---|----------------------------|
| (A) Only your name | (B) Only lowercase letters |
| (C) A mix of letters, numbers and symbols | (D) Only numbers |

69. Phishing is a type of

- | | |
|----------------------|---|
| (A) Hardware failure | (B) Cyber attack that tricks users into revealing information |
| (C) Software update | (D) Programming language |

70. What does the term "prompt" mean in the context of AI tools like ChatGPT?

- | | |
|------------------------|--|
| (A) A network protocol | (B) A type of hardware |
| (C) A computer virus | (D) An instruction or input given to an AI model |

71. Which of these is considered good prompt engineering practice?

- | | |
|---|-----------------------------|
| (A) Being vague and short | (B) Using only single words |
| (C) Being clear and specific about the desired output | (D) Never giving context |

72. Data ethics primarily concerns

- | | |
|------------------------------|--|
| (A) Amount of data stored | (B) Fair, responsible and unbiased use of data |
| (C) Speed of data processing | (D) Cost of data storage |

73. Bias in AI systems can occur due to

- | | |
|--|----------------------------|
| (A) Unrepresentative or skewed training data | (B) Balanced training data |
| (C) Faster processors | (D) More RAM |

74. Which of the following is a renewable source of energy relevant to future green careers?

- | | |
|---------------|-----------------|
| (A) Coal | (B) Solar power |
| (C) Petroleum | (D) Natural gas |

75. The Internet of Things (IoT) refers to

- | | |
|----------------------------|--|
| (A) A programming language | (B) Everyday devices connected to the internet exchanging data |
| (C) A type of virus | (D) Only smartphones |

76. Which career field focuses on protecting digital systems from hackers?

- (A) Cybersecurity (B) Fashion design
(C) Civil engineering (D) Culinary arts

77. Cloud computing allows users to

- (A) Delete all data automatically (B) Only browse the internet
(C) Only send emails (D) Store and access data over the internet instead of local drives

78. Which of these best describes "big data"?

- (A) A single spreadsheet (B) A type of virus
(C) Small text files (D) Extremely large and complex data sets

79. Which skill is increasingly important due to automation replacing routine jobs?

- (A) Handwriting speed (B) Critical thinking and adaptability
(C) Rote memorization (D) Manual filing

80. A digital footprint refers to

- (A) The trail of data a person leaves while using the internet (B) Physical footprints in snow
(C) A computer virus (D) A type of shoe

81. Which of the following is an example of an AI-powered recommendation system?

- (A) A wall clock (B) A basic calculator
(C) Netflix suggesting shows (D) A paper notebook

82. What is the main purpose of two-factor authentication?

- (A) To delete accounts (B) To add an extra layer of security beyond passwords
(C) To increase internet speed (D) To slow down login

83. Which technology is used to create realistic fake videos, raising ethical concerns?

- (A) Spreadsheet software (B) Basic photo editing
(C) Deepfake technology (D) Word processing

84. Blockchain technology is primarily known for use in

- (A) Cryptocurrencies and secure record-keeping (B) Music composition
(C) Cooking recipes (D) Weather forecasting

85. Which of these is a future skill emphasized for the digital economy?

- (A) Data literacy (B) Avoiding computers
(C) Memorizing textbooks (D) Handwriting only

86. Robotics combines principles of engineering, computer science and

- (A) Geography (B) Literature
(C) History (D) Mechanics

87. What does "algorithm" mean in computer science?

- (A) A programming language (B) A type of hardware
(C) A type of virus (D) A step-by-step procedure to solve a problem

88. Which of the following best describes "cloud storage"?

- (A) Storing data on remote servers accessed via the internet (B) Storing data in RAM only
(C) Storing data on paper (D) Storing files locally only

89. Which AI application is commonly used in healthcare?

- (A) Cooking food (B) Painting walls
(C) Disease diagnosis assistance (D) Watering plants

90. What is a key ethical concern regarding facial recognition technology?

- (A) It uses too much electricity (B) Privacy invasion and surveillance risks
(C) It cannot work at night (D) It is too slow

91. Which of the following is an example of a soft skill valuable in future workplaces?

- (A) Typing speed only (B) Using a calculator
(C) Communication and teamwork (D) Memorizing formulas

92. 3D printing technology is primarily used to

- | | |
|---|-------------------------------|
| (A) Compress files | (B) Print only text documents |
| (C) Create physical objects layer by layer from digital designs | (D) Only scan documents |

93. Which term refers to protecting personal data and privacy online?

- | | |
|----------------------|-------------------|
| (A) Data duplication | (B) Data mining |
| (C) Data privacy | (D) Data deletion |

94. What is malware?

- | | |
|---|------------------------|
| (A) Helpful software updates | (B) A type of hardware |
| (C) Malicious software designed to harm systems | (D) A search engine |

95. Automation in industries mainly aims to

- | | |
|--------------------------|--|
| (A) Slow down production | (B) Eliminate all jobs |
| (C) Increase paperwork | (D) Reduce human involvement in repetitive tasks |

96. Which of these is an example of a STEM career of the future?

- | | |
|----------------|-----------------------|
| (A) Town crier | (B) Data scientist |
| (C) Scribe | (D) Elevator operator |

97. Virtual reality (VR) is best described as

- | | |
|--|----------------------------|
| (A) A simulated computer-generated environment experienced through devices | (B) A type of printed book |
| (C) A real physical environment | (D) A type of antivirus |

98. Which of the following helps in verifying if online information is credible?

- | | |
|---|------------------------------------|
| (A) Checking the source and cross-referencing facts | (B) Ignoring the publish date |
| (C) Sharing without reading | (D) Believing everything instantly |

99. Green computing refers to

- | | |
|-----------------------------------|---|
| (A) Using more paper | (B) Environmentally responsible use and disposal of computing resources |
| (C) Using computers only outdoors | (D) Painting computers green |

100. Which of the following is a common risk of oversharing on social media?

- | | |
|-------------------------------------|---------------------------|
| (A) Identity theft and privacy loss | (B) Better grades |
| (C) Improved privacy | (D) Faster internet speed |

Answer Key — Class 9 Sample Question Paper

Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	D	21	B	41	D	61	A	81	C
2	B	22	C	42	A	62	A	82	B
3	C	23	D	43	D	63	C	83	C
4	A	24	B	44	B	64	D	84	A
5	A	25	C	45	C	65	B	85	A
6	B	26	D	46	D	66	D	86	D
7	D	27	D	47	C	67	B	87	D
8	C	28	B	48	A	68	C	88	A
9	D	29	A	49	D	69	B	89	C
10	D	30	D	50	D	70	D	90	B
11	B	31	D	51	A	71	C	91	C
12	D	32	B	52	B	72	B	92	C
13	C	33	C	53	D	73	A	93	C
14	D	34	C	54	A	74	B	94	C
15	D	35	C	55	C	75	B	95	D
16	D	36	B	56	B	76	A	96	B
17	A	37	B	57	C	77	D	97	A
18	D	38	B	58	A	78	D	98	A
19	A	39	D	59	B	79	B	99	B
20	B	40	D	60	D	80	A	100	A

Section-wise Distribution of Answers

Section	Questions	A	B	C	D
Section A — Subject Knowledge	1 – 20	4	4	3	9
Section B — Reasoning & Mathematics	21 – 40	1	7	5	7
Section C — General Knowledge & Current Awareness	41 – 60	5	4	4	7
Section D — Future Skills, Technology & AI Awareness	61 – 100	11	11	10	8

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