SAMPLE PAPER

Category D — Higher Secondary (Inter)

Class 11 & 12 • 100 MCQs • 100 Marks • Time: 120 minutes

D
CATEGORY

CANDIDATE DETAILS

Student's Name		**Roll Number**	
Father's Name		**Class**	
School / College		**Test Centre**	

INSTRUCTIONS

1. All questions are compulsory. Each question carries **1 mark**.
2. Each question has four options. Only **one** option is correct.
3. There is **no negative marking** for wrong answers.
4. Fill the correct circle completely on the Answer Sheet with a blue or black ball pen.
5. Mobile phones, calculators and smart watches are **not allowed**.
6. Non-Muslim students attempt the **(E) Ethics** question instead of the **(I) Islamiat** question.
7. Total time: **120 minutes**.

ہدایات

1۔ تمام سوالات لازمی ہیں۔ ہر سوال کا ایک نمبر ہے۔
2۔ ہر سوال کے چار جوابات ہیں جن میں سے صرف ایک درست ہے۔
3۔ غلط جواب پر کوئی نمبر نہیں کاٹا جائے گا۔
4۔ جواب شیٹ پر درست دائرہ نیلے یا کالے بال پین سے مکمل بھریں۔
5۔ موبائل فون، کیلکولیٹر اور اسمارٹ واچ کی اجازت نہیں ہے۔
6۔ غیر مسلم طلبہ اسلامیات کے بجائے اخلاقیات کا سوال حل کریں۔
7۔ کل وقت: 120 منٹ

PAPER PATTERN

Section	Subject	Questions	MCQs	Marks
1	English	Q1 – Q25	25	25
2	Analytical Reasoning & Basic Mathematics	Q26 – Q45	20	20
3	General Science	Q46 – Q65	20	20
4	Computer & IT	Q66 – Q75	10	10
5	GK, Pakistan Affairs & Current Affairs	Q76 – Q100	25	25
	Total		**100**	**100**

Do not open this paper until the invigilator tells you to begin.

ENGLISH

1. Neither the teacher nor the students ___ present.
(a) has been **(b)** was
(c) were **(d)** is

2. Hardly had he reached the station ___ the train left.
(a) then **(b)** as
(c) than **(d)** when

3. No sooner had I arrived ___ it started raining.
(a) as **(b)** when
(c) than **(d)** then

4. Choose the correct sentence:
(a) I look forward to meet you.
(b) I look forward for meeting you.
(c) I am looking forward to meet you.
(d) I look forward to meeting you.

5. Choose the correct sentence:
(a) The news have been good.
(b) The news were good.
(c) The news is good.
(d) The news are good.

6. He insisted ___ paying the bill.
(a) at **(b)** to
(c) for **(d)** on

7. If I were you, I ___ apologise.
(a) would **(b)** am
(c) will **(d)** shall

8. Find the error: *He is one of the best player in the team.*
(a) is **(b)** one of
(c) player **(d)** the team

9. A synonym of **meticulous** is:
(a) quick **(b)** lazy
(c) careful **(d)** careless

10. A synonym of **ephemeral** is:
(a) ancient **(b)** heavy
(c) permanent **(d)** short-lived

11. A synonym of **candid** is:
(a) angry **(b)** secretive
(c) frank **(d)** timid

12. An antonym of **benevolent** is:
(a) cruel **(b)** generous
(c) kind **(d)** gentle

13. An antonym of **frugal** is:
(a) careful **(b)** extravagant
(c) thrifty **(d)** economical

14. An antonym of **obscure** is:
(a) vague **(b)** dim
(c) clear **(d)** hidden

15. The idiom *to bite the bullet* means:
(a) to eat very quickly
(b) to get injured
(c) to waste ammunition
(d) to face a difficult situation bravely

16. The idiom *once in a blue moon* means:
(a) very rarely **(b)** at night
(c) every month **(d)** never

17. The idiom *to let the cat out of the bag* means:
(a) to make a mistake **(b)** to create trouble
(c) to reveal a secret **(d)** to free a pet

18. Doctor : Hospital :: Teacher : ?
(a) Lesson **(b)** Student
(c) Book **(d)** School

19. Pen : Write :: Knife : ?
(a) Kitchen **(b)** Cut
(c) Steel **(d)** Sharp

20. Bird : Flock :: Fish : ?
(a) Swarm **(b)** Pack
(c) School **(d)** Herd

21. Despite his ___ efforts, he could not pass the exam.
(a) tireless **(b)** lazy
(c) careless **(d)** idle

22. The theory was so ___ that very few people understood it.
(a) complex **(b)** simple
(c) obvious **(d)** clear

Read the passage and answer Q23 to Q25.

Pakistan produces less than one percent of the world's greenhouse gas emissions, yet it is among the countries most affected by climate change. The floods of 2022 covered large parts of Sindh and Balochistan and affected more than thirty million people. Experts say that planting trees, saving water and building stronger infrastructure can reduce such damage in the future.

23. According to the passage, Pakistan's share of global emissions is:
(a) the largest in Asia
(b) more than thirty percent
(c) about ten percent
(d) less than one percent

24. The 2022 floods affected:
(a) only big cities
(b) only Punjab
(c) more than thirty million people
(d) fewer than one million people

SAMPLE

25. Which of these is **not** suggested in the passage to reduce damage?

(a) planting trees
(b) building more factories
(c) building stronger infrastructure
(d) saving water

ANALYTICAL REASONING & BASIC MATHEMATICS

26. Find the next number: 2, 6, 12, 20, 30, ?

(a) 42 **(b)** 40
(c) 36 **(d)** 44

27. Find the next number: 3, 9, 27, 81, ?

(a) 108 **(b)** 243
(c) 324 **(d)** 162

28. Find the next number: 1, 1, 2, 3, 5, 8, ?

(a) 15 **(b)** 11
(c) 12 **(d)** 13

29. Find the next letter: A, C, F, J, ?

(a) O **(b)** M
(c) N **(d)** P

30. 15% of 240 = ?

(a) 40 **(b)** 36
(c) 32 **(d)** 24

31. A number increased by 20% becomes 360. The number is:

(a) 288 **(b)** 340
(c) 300 **(d)** 320

32. The ratio of boys to girls in a class is 3 : 5. If there are 64 students, how many are girls?

(a) 40 **(b)** 24
(c) 45 **(d)** 35

33. The average of 5 numbers is 20. If the number 30 is removed, the average of the rest is:

(a) 17 **(b)** 18
(c) 20 **(d)** 17.5

34. A train travels at 60 km/h. How long will it take to cover 150 km?

(a) 2 hours **(b)** 2.5 hours
(c) 3 hours **(d)** 2 hours 15 minutes

35. A can finish a job in 6 days and B in 12 days. Working together, they finish it in:

(a) 18 days **(b)** 4 days
(c) 9 days **(d)** 3 days

36. After a 25% discount, a shirt costs Rs 1,200. Its marked price was:

(a) Rs 1,500 **(b)** Rs 1,600
(c) Rs 900 **(d)** Rs 1,450

37. Ali is older than Bilal. Bilal is older than Chand. Who is the youngest?

(a) Bilal **(b)** Ali
(c) Chand **(d)** Cannot be determined

38. All doctors are graduates. Hamid is a doctor. Therefore:

(a) Hamid is a graduate.
(b) Hamid may not be a graduate.
(c) Hamid is not a graduate.
(d) All graduates are doctors.

39. If CAT is written as DBU, then DOG is written as:

(a) EOH **(b)** EPH
(c) CNF **(d)** FPI

40. You face North, turn right, and then turn right again. Which direction are you facing now?

(a) North **(b)** East
(c) West **(d)** South

41. Find the odd one out: 4, 9, 16, 21, 25

(a) 16 **(b)** 25
(c) 9 **(d)** 21

42. What is the angle between the hands of a clock at 3:00?

(a) 120° **(b)** 180°
(c) 90° **(d)** 60°

Students enrolled in a college (use for Q43 to Q45):

Year	2022	2023	2024	2025
Students	400	500	450	650

43. In which year were the most students enrolled?

(a) 2022 **(b)** 2025
(c) 2024 **(d)** 2023

44. By what percentage did enrolment increase from 2022 to 2023?

(a) 10% **(b)** 100%
(c) 20% **(d)** 25%

45. What is the average number of students per year?

(a) 475 **(b)** 500
(c) 525 **(d)** 450

GENERAL SCIENCE

46. The SI unit of momentum is:

(a) joule **(b)** kg m/s
(c) newton **(d)** kg m/s²

47. A body moving in a circle at constant speed has:

(a) a changing velocity
(b) zero acceleration
(c) a constant velocity
(d) no force acting on it

48. The SI unit of power is the:

(a) joule **(b)** newton
(c) pascal **(d)** watt

49. Kinetic energy is given by:

(a) ma **(b)** ½mv²
(c) mgh **(d)** mv

SAMPLE

50. Two resistors R_1 and R_2 connected in series have a total resistance of:

(a) R_1 / R_2 **(b)** $R_1 \times R_2$
(c) $R_1 - R_2$ **(d)** $R_1 + R_2$

51. The SI unit of frequency is the:

(a) second **(b)** decibel
(c) hertz **(d)** metre

52. Sound waves in air are:

(a) electromagnetic waves
(b) transverse waves
(c) radio waves
(d) longitudinal waves

53. One mole of a substance contains about ___ particles.

(a) 6.67×10^{-11} **(b)** 3×10^{8}
(c) 6.02×10^{23} **(d)** 1.6×10^{-19}

54. The molar mass of water (H_2O) is:

(a) 10 g/mol **(b)** 16 g/mol
(c) 20 g/mol **(d)** 18 g/mol

55. The bond in a hydrogen (H_2) molecule is:

(a) metallic **(b)** ionic
(c) covalent **(d)** a hydrogen bond

56. The rusting of iron is an example of:

(a) reduction **(b)** neutralisation
(c) sublimation **(d)** oxidation

57. The simplest alkane is:

(a) ethene **(b)** methane
(c) benzene **(d)** ethane

58. The functional group of alcohols is:

(a) −COOH **(b)** $-NH_2$
(c) −CHO **(d)** −OH

59. Proteins are made in the cell by:

(a) vacuoles **(b)** the cell wall
(c) ribosomes **(d)** lysosomes

60. Most enzymes are:

(a) carbohydrates **(b)** vitamins
(c) lipids **(d)** proteins

61. Proteins are made up of:

(a) nucleotides **(b)** fatty acids
(c) amino acids **(d)** glucose

62. Insulin is produced by the:

(a) stomach **(b)** kidney
(c) pancreas **(d)** liver

63. The functional unit of the kidney is the:

(a) neuron **(b)** villus
(c) nephron **(d)** alveolus

64. Vaccines protect us by:

(a) replacing red blood cells
(b) training the immune system to recognise germs
(c) raising blood sugar
(d) killing all bacteria instantly

65. A pressure cooker cooks food faster because:

(a) the steam inside is cooler
(b) it removes air from the food
(c) it lowers the boiling point of water
(d) higher pressure raises the boiling point of water

COMPUTER & IT

66. Which of these is an operating system?

(a) MS Word **(b)** Google Chrome
(c) Intel **(d)** Windows

67. 1 byte is equal to:

(a) 1,024 bits **(b)** 4 bits
(c) 8 bits **(d)** 16 bits

68. The keyboard shortcut to copy is:

(a) Ctrl + X **(b)** Ctrl + V
(c) Ctrl + Z **(d)** Ctrl + C

69. MS Excel is mainly used for:

(a) presentations
(b) spreadsheets and calculations
(c) web browsing
(d) photo editing

70. *Phishing* is:

(a) a computer game
(b) a fake message that tricks people into giving personal information
(c) a type of antivirus
(d) a type of computer hardware

71. In email, **CC** stands for:

(a) Common Contact **(b)** Carbon Copy
(c) Computer Code **(d)** Copy Cancel

72. URL stands for:

(a) United Resource Line
(b) Uniform Resource Locator
(c) Uniform Region Location
(d) Universal Remote Link

73. In machine learning, computers:

(a) learn patterns from data
(b) are built only from machines
(c) can only do arithmetic
(d) work without any data

74. A chatbot that understands human language mainly uses:

(a) Computer-Aided Design (CAD)
(b) Cascading Style Sheets (CSS)
(c) Natural Language Processing (NLP)
(d) Optical Mark Reading (OMR)

75. Two-factor authentication (2FA) improves security by:

(a) making the password shorter
(b) sharing the password with friends
(c) removing the password
(d) asking for a second proof of identity besides the password

SAMPLE

GK, PAKISTAN AFFAIRS & CURRENT AFFAIRS

76. Sir Syed Ahmad Khan founded the MAO College at Aligarh in:
(a) 1906 **(b)** 1857
(c) 1875 **(d)** 1885

77. The War of Independence took place in:
(a) 1757 **(b)** 1857
(c) 1905 **(d)** 1919

78. Allama Iqbal presented the idea of a separate Muslim state in his Allahabad Address in:
(a) 1940 **(b)** 1930
(c) 1935 **(d)** 1928

79. Quaid-e-Azam presented his Fourteen Points in:
(a) 1940 **(b)** 1919
(c) 1929 **(d)** 1935

80. Sindh was separated from the Bombay Presidency in:
(a) 1947 **(b)** 1935
(c) 1936 **(d)** 1940

81. The first provincial assembly to pass a resolution in favour of Pakistan was the:
(a) NWFP Assembly **(b)** Bengal Assembly
(c) Sindh Assembly **(d)** Punjab Assembly

82. The Objectives Resolution was passed in:
(a) 1947 **(b)** 1949
(c) 1973 **(d)** 1956

83. Pakistan's first constitution came into force in:
(a) 1956 **(b)** 1947
(c) 1962 **(d)** 1973

84. Under the 1973 Constitution, the head of state is the:
(a) Chief Justice
(b) Prime Minister
(c) President
(d) Speaker of the National Assembly

85. The minimum age to become a member of the National Assembly is:
(a) 25 years **(b)** 18 years
(c) 35 years **(d)** 30 years

86. Article 25-A of the Constitution gives the right to:
(a) free and compulsory education
(b) form associations
(c) own property
(d) freedom of speech

87. The 18th Amendment to the Constitution was passed in:
(a) 1985 **(b)** 2010
(c) 2002 **(d)** 2015

88. K2 is located in the:
(a) Kirthar Range **(b)** Karakoram Range
(c) Sulaiman Range **(d)** Hindu Kush

89. Manchar Lake, one of the largest freshwater lakes of Pakistan, is near:
(a) Karachi **(b)** Sukkur
(c) Thatta **(d)** Sehwan

90. The central bank of Pakistan is the:
(a) Bank of Punjab
(b) National Bank of Pakistan
(c) Habib Bank Limited
(d) State Bank of Pakistan

91. Pakistan's largest export sector is:
(a) electronics **(b)** automobiles
(c) steel **(d)** textiles

92. Reko Diq in Balochistan is famous for deposits of:
(a) salt **(b)** copper and gold
(c) natural gas **(d)** coal

93. Makli Necropolis, a UNESCO World Heritage Site, is located in:
(a) Hyderabad **(b)** Thatta
(c) Jamshoro **(d)** Dadu

94. Sindhi Cultural Day (Ajrak and Topi Day) is celebrated every year in:
(a) August **(b)** March
(c) June **(d)** December

95. COP climate conferences are held under the:
(a) UNFCCC **(b)** WHO
(c) IMF **(d)** UNESCO

96. Pakistan is a non-permanent member of the UN Security Council for the term:
(a) 2022–2023 **(b)** 2019–2020
(c) 2025–2026 **(d)** 2027–2028

97. Pakistan became a full member of the Shanghai Cooperation Organisation (SCO) in:
(a) 2010 **(b)** 2022
(c) 2017 **(d)** 2001

98. The headquarters of the Organisation of Islamic Cooperation (OIC) is in:
(a) Istanbul **(b)** Riyadh
(c) Cairo **(d)** Jeddah

99. (I) The Battle of Badr was fought in:
(a) 8 AH **(b)** 2 AH
(c) 5 AH **(d)** 3 AH

OR (for non-Muslim students)

99. (E) Article 20 of the Constitution of Pakistan guarantees:
(a) freedom to profess religion
(b) the right to vote
(c) freedom of trade
(d) free education

SAMPLE

100. (I) The Holy Quran was revealed over a period of about:

(a) 13 years **(b)** 40 years
(c) 23 years **(d)** 10 years

OR (for non-Muslim students)

100. (E) Keeping promises and being reliable is called:

(a) greed **(b)** arrogance
(c) envy **(d)** trustworthiness

— End of Questions —

SAMPLE

ANSWER SHEET

Category D — Higher Secondary (Inter) • 100 Questions

Name		Roll No.	

Fill **one** circle completely for each question. For Islamiat / Ethics questions, mark the answer of the question you attempted.

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

ANSWER KEY

Check your answers only after attempting the full paper in the given time.

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

Your score _____ **out of 100** **Percentage** _____ **%**

Percentage = (Correct answers ÷ 100) × 100. In each district, the top 5 percentages across all categories win a laptop.

SAMPLE