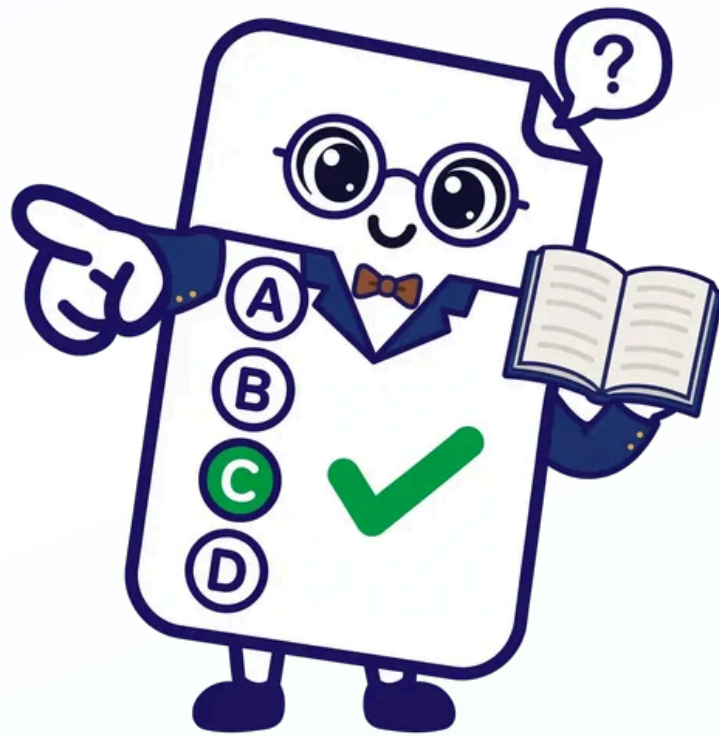




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- Computer Science and IT: 1 MCQs per paper



MODEL PAPER 1 OF 1

Subject Specialist Mathematics Test

100 MCQs · 120 minutes · answer key at the back

**Mathematics**

80 MCQs

1. Find out the wrong number in the series : 1, 1, 2, 6, 24, 96, 720

☐ A 6☐ B 24☐ C 96☐ D 720

2. What is the volume of a cube (in cubic cm) whose diagonal measures $4\sqrt{3}$ cm ?

☐ A 8☐ B 16☐ C 27☐ D 64

3. A and B enter into partnership with capital as 7:9. At the end of 8 months, A withdraws. If they receive the profits in the ratio of 8:9 find how long B's capital was used?

☐ A 6 months☐ B 8 months☐ C 10 months☐ D 7 months

4. A heap of stones can be made up into groups of 21. When made up into groups of 16, 20, 25 and 45 there are 3 stones left in each case. How many stones at least can there be in the heap?

☐ A 7203☐ B 2403☐ C 3603☐ D 4803

5. The top of a 15 metre high tower makes an angle of elevation of 60° with the bottom of an electric pole and angle of elevation of 30° with the top of the pole. What is the height of the electric pole ?

☐ A 5 metres☐ B 8 metres☐ C 10 metres☐ D 12 metres

6. The cash difference between the selling prices of an article at a profit of 4% and 6% is Rs. 3. The ratio of the two selling prices is:_____?

☐ A 51:52☐ B 52:53☐ C 51:53☐ D 52:55

7. How many terms are there in the expansion of $(1 + x)^n$?

☐ A 2^n ☐ B n^2 ☐ C $n + 1$ ☐ D $n - 1$

8. If the side of a square is increased by 30 %. Its area is increased by: _____?

- (A) 9 %
 - (B) 30 %
 - (C) 60 %
 - (D) 69 %
- Primary & Secondary Schooling (K-12)

9. The income of a broker remains unchanged though the rate of commission is increased from 4 % to 5 % the percentage of a slump in business is _____?

- (A) 8 %
- (B) 1 %
- (C) 20 %
- (D) 80 %

10. If the sum of the co-efficients in the expansion of $(x+y)^n$ is 1024 then the value of the greatest co-efficient in the expansion is:

- (A) 356
- (B) 252
- (C) 210
- (D) 120

11. The edge of a cube is 2a cm. Find its surface?

- (A) $6a^2 \text{ cm}^2$
- (B) $8a^2 \text{ cm}^2$
- (C) $12a^2 \text{ cm}^2$
- (D) $24a^2 \text{ cm}^2$

12. A bag contains 1 rupee, 2 rupee and 5 rupee coins amounting to Rs.264. If the ratio of the number of these coins is 3:5:4, find the number of 1 rupee coins.

- (A) 66
- (B) 48
- (C) 24
- (D) 8

13. If $a > b$ and $b > a$. Then ?

- (A) $a = b$
- (B) $a \neq b$
- (C) Cannot be evaluated
- (D) None

14. If the ratio of the areas of two squares is 9:1 ratio of their perimeters is _____?

- (A) 9:1
- (B) 3:1
- (C) 3:4
- (D) 1:3

15. Bilal spends 45% of his monthly income on household items, 25% of his monthly income on buying cloths, 7.5% of his monthly income on medicines and saves the remaining amount which is Rs. 9000. Find his monthly income.

- (A) Rs. 40000
- (B) Rs. 36000
- (C) Rs. 50000
- (D) Rs. 45000
- (E) None of these

16. If the sum of coefficients of x and x^2 , in the expansion of $(1-2x)^n$, when n is positive is 16 then the coefficient of x is:

- (A) +32 (B) -24
(C) +24 (D) -32

17. The length of a rectangular room is 4 meters. If it can be partitioned into two equal square rooms. What is the length of each partition in meters: _____?

- (A) 1 (B) 2
(C) 4 (D) Data Inadequate

18. 8 % of the voters in an election did not cast their votes in the election, there were only two candidates. The winner by obtaining 48 % of the total votes defeated his contestant by 1100 votes. The total number of voters in the election was _____?

- (A) 21000 (B) 2200
(C) 23500 (D) 27500

19. $\{20 - [7 - (3 - 2)] + \frac{1}{3}(4.2)\} / 1.4 = \text{_____?}$

- (A) 11 (B) 12
(C) 14 (D) 19

20. The angle of elevation of a ladder leaning against a wall is 60° and the foot of the ladder is 4.6 m away from the wall. The length of the ladder is : _____?

- (A) 2.3 m (B) 4.6 m
(C) 7.8 m (D) 9.2 m

21. $60 + 5 * 12 / (180/3) = \text{_____?}$

- (A) 60 (B) 120
(C) 13 (D) 61

22. I. $a^2 + 8a + 16 = 0$, II. $b^2 - 4b + 3 = 0$ to solve both the equations to find the values of a and b ?

- (A) If $a < b$
(B) If $a \leq b$
(C) If the relationship between a and b cannot be established
(D) If $a > b$

23. A circular path of 13 m radius has marginal walk 2 m wide all round it. Find the cost of leveling the walk at 25p per m^2 ?

- (A) Rs.45 (B) Rs.78
(C) Rs.44 (D) Rs.40

24. The radius of a circle is increased by 1%. Find how much % does its area increases?

- (A) 1.01%
- (B) 5.01%
- (C) 3.01%
- (D) 2.01%

25. Three consecutive odd integers are in increasing order such that the sum of the last two integers is 13 more than the first integer. Find the three integers?

- (A) 9, 11, 13
- (B) 11, 13, 15
- (C) 13, 15, 17
- (D) 7, 9, 11
- (E) None of these

26. A cylinder and a cone have a same height and same radius of the base. The ratio between the volumes of the cylinder and cone is _____?

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

27. The product of two numbers is 2028 and their H.C.F is 13. The number of such pairs is _____?

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

28. complete the series: 4.8.9.13.14.18. _____?

- (A) 22
- (B) 32
- (C) 11
- (D) 19

29. The number of solid spheres each of diameter 6 cm, that could be moulded to form a solid metal cylinder of height 45 cm and diameter 4 cm is?

- (A) 3
- (B) 4
- (C) 5
- (D) 6

30. Anees and Raees started a business investing Rs. 22,500 and Rs. 35,000 respectively. Out of a total profit of Rs. 13,800, Raees's share is: _____?

- (A) Rs. 5400
- (B) Rs. 7200
- (C) Rs. 8400
- (D) Rs. 9600

31. The feasible solution which maximizes or minimizes the objective function is called:

- (A) Optimal solution
- (B) Feasible solution
- (C) Linear solution
- (D) Quintic solution

32. The radius of a cylindrical vessel is 7cm and height is 3cm. Find the whole surface of the cylinder?

- (A) 308 sq cm
- (B) 220 sq cm
- (C) 440 sq cm
- (D) 132 sq cm

33. In a certain store, the profit is 320% of the cost. If the cost increases by 25% but the selling price remains constant, approximately what percentage of the selling price is the profit?

- (A) 30% (B) 70%
(C) 100% (D) 250%

34. Find the one which does not belong to that group ?

- (A) 358 (B) 246
(C) 134 (D) 862

35. An order was placed for the supply of a carpet whose breadth was 6 m and length was 1.44 times the breadth. What be the cost of a carpet whose length and breadth are 40% more and 25% more respectively than the first carpet. Given that the ratio of carpet is Rs. 45 per sq m?

- (A) Rs. 3642.40 (B) Rs. 3868.80
(C) Rs. 4216.20 (D) Rs. 4082.40

36. A cistern which could be filled in 9 hours takes one hour more to be filled owing to a leak in its bottom. If the cistern is full in what time will the leak empty it?

- (A) 45 hrs (B) 60 hrs
(C) 75 hrs (D) 90 hrs

37. The first four terms of $(1-x)^2$ are:

- (A) $1-1/2x-1/8x^2-1/16x^3$ (B) $1+1/2x+1/8x^2+1/16x^3$
(C) $1+1/2x+1/4x^2+1/8x^3$ (D) $1-1/2x-1/4x^2+1/8x^3$

38. If each side of a square is increased by 50% the ratio of the area of the resulting square to the area of the given square is _____?

- (A) 5:4 (B) 9:4
(C) 4:5 (D) 4:9 Fun & Trivia

39. What is the principle amount which earns Rs.132 as compound interest for the second year at 10 % per annum?

- (A) Rs. 1000 (B) Rs. 1200
(C) Rs. 1320 (D) None of these

40. Find the greatest 4-digit number exactly divisible by 3, 4 and 5?

- (A) 9985 (B) 9960
(C) 9957 (D) 9975

41. The length and breadth of a rectangular piece of land are in the ratio of 5:3. The owner spent Rs 3000 for surroundings it from are the sides at Rs 7.50 per meter. The difference between is length and breadth is _____?

- (A) 50m (B) 100m
(C) 150m (D) 200m

42. The average of 1st 3 of 4 numbers is 16 and of the last 3 are 15. If the sum of the first and the last number is 13. What is the last numbers?

- (A) 8 (B) 6
(C) 5 (D) 2

43. Today is khadija's birthday. After one year, she will become two times as she was ten years ago. current age of Khadija?

- (A) 19 (B) 20
(C) 21 (D) 22Pakistan Studies Quiz

44. A 25 cm wide path is to be made around a circular garden having a diameter of 4 meters. Approximate area of the path is square meters is _____?

- (A) 3.34 (B) 2
(C) 4.5 (D) 5.5

45. A group of people has provisions for 29 days for 24 men. If after 4 days $\frac{1}{6}$ of them desert then food will last for?

- (A) 25 days (B) 28 days
(C) 30 days (D) 32 days

46. The first three terms in the expansion of $(1+ax)(n \neq 0)$ are $1, 6x$ and $16x^2$ then the value of a and n are respectively:

- (A) 2 and 9 (B) 3 and 2
(C) $\frac{2}{3}$ and 9

47. The dimensions of an open box are 52, 40 and 29 cms. Its thickness is 2 cms. If 1 cm³ of metal used in the box weighs 0.5 gms, the weight of the box is _____?

- (A) 8.56 kg (B) 7.76 kg
(C) 7.756 kg (D) 6.832 kg

48. $\frac{1095}{1168}$ when expressed in simplest form is:

- (A) $\frac{13}{16}$ (B) $\frac{15}{16}$
(C) $\frac{17}{26}$ (D) $\frac{25}{26}$

49. The number of terms in the expansion of $(a + b)^{20}$ is:

- (A) 18 (B) 20
(C) 21 (D) 19

50. Find the size of the largest square slabs which can be paved on the floor of a room 5 meters 44 cm long and 3 meters 74 cm broad?

- (A) 56 (B) 42
(C) 38 (D) 34

51. A man complete a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.

- (A) 121 km (B) 242 km
(C) 224 km (D) 112 km

52. Free notebooks were distributed equally among children of a class. The number of notebooks each child got was one-eighth of the number of children. Had the number of children been half, each child would have got 16 notebooks. Total how many notebooks were distributed?

- (A) 256 (B) 432
(C) 512 (D) 640

53. Find the cost of fencing around a circular field of diameter 28 m at the rate of Rs.1.50 a meter?

- (A) Rs.150 (B) Rs.132
(C) Rs.100 (D) Rs.125

54. After allowing a discount of 15% on the marked price, the selling price is Rs. 6800 for an article. If it was sold at marked price, there would have been a profit of 60%. The cost price of the article is?

- (A) Rs. 6400 (B) Rs. 5600
(C) Rs. 5000 (D) Rs. 4800
(E) None of these

55. A two-digit number is such that the product of the digits is 8. When 18 is added to the number, then the digits are reversed. The number is : _____?

- (A) 18 (B) 24
(C) 42 (D) 81

56. If $n(U)=60$, $n(A)= 35$, $n(B)=24$, and $n(A \cup B)=10$ then $n(A \cap B)$ is _____?

- (A) 10
(B) 8
(C) 9
(D) None of These

57. If the cost price of 12 pens is equal to the selling price of 8 pens, the gain percent is:

- (A) 25% (B) $33 \frac{1}{3} \%$
(C) 50% (D) $66 \frac{2}{3} \%$

58. In a question paper, there are four multiple choice type questions, each question has five choices with only one choice for it's correct answer. What is the total number of ways in which a candidate will not get all the four answers correct?

- (A) 19 (B) 120
(C) 624 (D) 1024

59. A rectangular field has area equal to 150 sq m and perimeter 50 m. Its length and breadth must be _____?

- (A) 12 m, 10 m
(C) 14 m, 11 m

- (B) 13 m, 12 m
(D) 15 m, 10 m

60. The price of cooking oil has increased by 25 %. The percentage of reduction that a farming should effect in the use of cooking oil so as not to increase the expenditure on this account is _____?

- (A) 15 %
(C) 25%

- (B) 20 %
(D) 30%

61. In how many different ways can the letters of the word 'OPTICAL' be arranged so that the vowels always come together?

- (A) 120
(C) 4320

- (B) 720
(D) 2160

62. If the side of a square is increased by 25 % then how much percent does it's area get increased:

- (A) 125
(C) 50

- (B) 156.25
(D) 56.25

63. The average of 35 numbers is 25. If each number is multiplied by 5, find the new average?

- (A) 125
(C) 170

- (B) 134
(D) 98

64. Find the one which does not belong to that group ?

- (A) 20
(C) 58

- (B) 42
(D) 72

65. Area of a square with side x is equal to the area of a triangle with base x. The altitude of the triangle is: _____?

- (A) $x/2$
(C) $2x$

- (B) x
(D) $4x$

66. Three pipes A, B and C can fill a tank from empty to full in 30 minutes, 20 minutes and 10 minutes respectively. When the tank is empty, all the three pipes are opened. A, B and C discharge chemical solutions P, Q and R respectively. What is the proportion of solution R in the liquid in the tank after 3 minutes?

- (A) $5/11$
(C) $7/11$

- (B) $6/11$
(D) $8/11$

67. In how many ways can live boys and three girls sit in a row such that all boys sit together?

- (A) 4800
(C) 2880

- (B) 5760
(D) 15000

68. The length of a rectangular plot is 20 metres more than its breadth. If the cost of fencing the plot @ 26.50 per metre is Rs. 5300, what is the length of the plot in metres?

- (A) 40 (B) 50
(C) 120 (D) None of These

69. If goods be purchased for Rs.840 and one-fourth be sold at a loss of 20% at what gain percent should the remainder be sold so as to gain 20% on the whole transaction?

- (A) 30% (B) 33%
(C) $33\frac{1}{3}\%$ (D) 35%

70. Using all the letters of the word "THURSDAY", how many different words can be formed?

- (A) 8 (B) 8!
(C) 7! (D) 7

71. The length and breadth of a rectangle are in the ratio 5:4. Find its perimeter if its area is 180 cm^2

- (A) 54 cm (B) 27 cm
(C) 12 cm (D) 15 cm

72. A boy goes to his school from his house at a speed of 3 km / hr and returns at a speed of 2 km / hr. If he takes 5 hours in going and coming, the distance between his house and school is : _____?

- (A) 5 km (B) 5.5 km
(C) 6 km (D) 6.5 km

73. The general term of the expansion $(1+x-3)$ is:

- (A) $(r+1)(r+2)/2$ (B) $(r+1)(r+2) \times 4$
(C) $(-1)(r+1)(r+2) \times 4/2$ (D) $(-1)(r+1)(r+2) \times 4$

74. A river 2m deep and 45 m wide is flowing at the rate of 3 kmph the amount of water that runs into the sea per minute is?

- (A) 4500 M3 (B) 27000 M3
(C) 3000 M3 (D) 2700 M3

75. If books bought at prices ranging from Rs. 200 to Rs. 350 are sold at prices ranging from Rs. 300 to Rs. 425. What is the greatest possible profit that might be made in selling 8 books?

- (A) Rs. 400 (B) Rs. 600
(C) Cannot be determined (D) None of these

76. I. $a^3 - 988 = 343$, II. $b^2 - 72 = 49$ to solve both the equations to find the values of a and b?

- (A) If $a > b$ (B) If $a \geq b$
(C) If $a < b$ (D) If $a \leq b$

77. If the height of a cone is increased by 100% then its volume is increased by _____?

- (A) 100%
- (B) 200%
- (C) 300%
- (D) 400%

78. The difference between the compound interest compounded annually and simple interest for 2 years at 20% per annum is Rs.144. Find the principal?

- (A) Rs.3000
- (B) Rs.3300
- (C) Rs.3600
- (D) Rs.3900

79. The term involving x^{-2} in the expansion of $(x - \frac{2}{x^2})^{13}$ is:

- (A) 6th term
- (B) 4th term
- (C) 5th term
- (D) 3rd term

80. A rectangular carpet has an area of 60 sq.m its diagonal and longer side together equal 5 times the shorter side. The length of the carpet is: _____?

- (A) 5m
- (B) 12m
- (C) 13m
- (D) 14.5m



English

5 MCQs

81. In each of the following question, four alternative sentences are given. Choose the CORRECT one and fill the Circle corresponding to that letter in the MCQ Responses Form.

- (A) As she said the computer was programmed by Mona.
- (B) Just like she said the computer was programmed by Mona.
- (C) As like she said the computer was programmed by Mona.
- (D) Just like she had she said the computer was programmed by Mona.

82. The chess master promised to _ havoc upon his opponent's pawn for taking his bishop.

- (A) Endow
- (B) Placate
- (C) Ensur
- (D) Warrant
- (E) Wreak

83. Pick up the wrong part in the sentence: Although I thought I had hardly left any book unread, I am surprised that I have not read these two books.

- (A) I had
- (B) Unread
- (C) Surprised
- (D) Have
- (E) No error

84. Which of the following sentences is in correct order?

- (A) We up right drove to Karachi in two days.
- (B) We to Karachi drove in two days right up.
- (C) We right drove to Karachi up in two days.
- (D) We drove right up to Karachi in two days.

85. She _ her parents. They must be worried about her health.

- (A) Had better call
- (B) Had better called
- (C) Had better to call
- (D) Better call



General Knowledge

5 MCQs

86. Jahangir Nagar is the old name of _____?

- (A) Delhi
- (B) Dhaka
- (C) Kolkata
- (D) None of Above

87. The author of novel "The Bluest Eye" is _____?

- (A) Toni Morrison
- (B) Munta Bannerji
- (C) Shakespeare
- (D) Adolf Hitler

88. Table tennis is the national game of which country?

- (A) Canada
- (B) Chile
- (C) China
- (D) Brazil

89. When Facebook launched?

- (A) January 2004
- (B) February 2004
- (C) March 2004
- (D) April 2004

90. ECL stands for _____?

- (A) Entry Control List
- (B) Exit Control List
- (C) Extended Control List
- (D) Error Correction List



Pakistan Studies

4 MCQs

91. Quaid remained President of AIML for the period of _____ years?

- (A) 15
- (B) 34
- (C) 25
- (D) 38

92. The power of the Legislative councils was increased by: _____?

- (A) Minto - Morley Reforms, 1909 (B) Simon Commission Report
(C) 3rd Round Table Conference (D) Gandhi - Irwin Pact

93. The busiest seaport of Pakistan is _____?

- (A) Karachi Port (B) Bin Qasim
(C) Gawadar (D) None of these

94. Which movement of East Pakistan also supported india in war of 1971?

- (A) Bangla Movement (B) Bangali Movement
(C) Mukti Bahini (D) Azadi Movement



Pakistan Current Affairs

3 MCQs

95. On August 09 2018, the First inaugural Asma Jahangir Scholarship was awarded to a student named _____?

- (A) Sajida Vandal (B) Wajiha Aziz
(C) Sana Gul (D) Shaheen Sattar

96. Who unveiled a public version of the country's first-ever National Security Policy (NSP) on January 14, 2022?

- (A) PM Imran Khan (B) NSA Moeed Yousuf
(C) President Dr. Arif Alavi (D) COAS Gen: Qamar javed Bajwa

97. According to new policy of government of Pakistan on 1st February, 2019 how much price is fixed to perform Hajj?

- (A) 280,000 Rs (B) 360,000 Rs
(C) 456,000 Rs (D) 524,000



Islamic Studies

2 MCQs

98. "اللَّهُ نُورُ السَّمَوَاتِ وَالْأَرْضِ" is a beautiful verse of Quran is in surah?

- (A) Noor (B) Maida
(C) Alq (D) Namal

99. Kitab-ul-Shamayel relates of to _____?

- (A) Life of the Holy Prophet (PBUH) (B) Saying of Holy Prophet (PBUH)
(C) Muslim Conquests (D) Islamic philosophy



Computer Science and IT

1 MCQs

100. Duplicate data in multiple data files is:

- ☐ A Data redundancy
- ☐ B Data multiplication
- ☐ C Data Integrity
- ☐ D Normalization

Answer key

Tap any answer to open its full explanation on TestUstad.

Model Paper 1

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



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