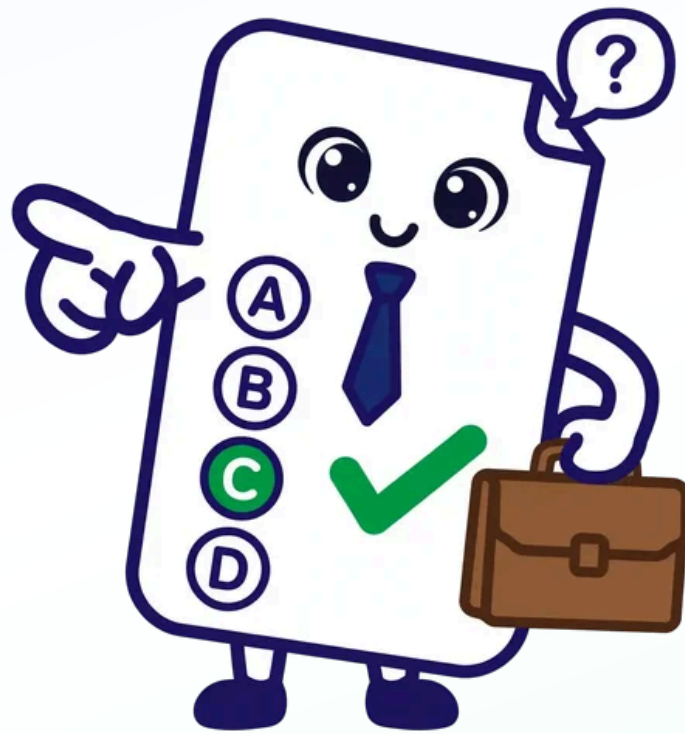




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Real PMD subject split

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100 MCQs across one paper, each drawn in the same subject split as the real PMD paper:

- Physics: 25 MCQs per paper
- Mathematics: 20 MCQs per paper
- Everyday Science: 20 MCQs per paper
- English: 20 MCQs per paper
- General Knowledge: 15 MCQs per paper



MODEL PAPER 1 OF 1

Pakistan Meteorological Department Test

100 MCQs · 120 minutes · answer key at the back



Physics

25 MCQs

1. The ratio of heat accepted to the heat rejected by a carnot engine gives :

- ☐ A The efficiency of the working substance
- ☐ B The ideal gas scale temperature
- ☐ C The thermal conductivity at the working substance
- ☐ D None of the above

2. A hail and a rain drop of the same radius are released from the same height, the rain drop will reach

- ☐ A Before hail
- ☐ B After hail
- ☐ C At the same time
- ☐ D None of the above

3. A body is having weight 20 N, when the elevator is descended with $a = 0.1 \text{ ms}^{-2}$, then the value of tension 'T' is:

- ☐ A 196 N
- ☐ B 19.8 N
- ☐ C 1.98 N
- ☐ D 2 N

4. Unit vector in the direction of vector $2\mathbf{i} - 4\mathbf{j}$ will be:

- ☐ A $2\mathbf{i} - 4\mathbf{j} / \sqrt{6}$
- ☐ B $4\mathbf{i} - 2\mathbf{j} / \sqrt{10}$
- ☐ C $\mathbf{i} - 2\mathbf{j} / \sqrt{5}$
- ☐ D $\mathbf{i} - 2\mathbf{j} / \sqrt{7}$

5. Relationship between angular and linear velocity is:

- ☐ A $\omega = rv$
- ☐ B $v = r\omega$
- ☐ C $\omega = v/r^2$
- ☐ D $v = \omega/r$

6. Lenz's law is based on:

- ☐ A Law of conservation of current
- ☐ B Law of conservation magnetization
- ☐ C Law of conservation of charges
- ☐ D Law of conservation of energy

7. Earth receives large amount of energy directly from:

- ☐ A Wind
- ☐ B Water
- ☐ C Sun
- ☐ D Moon

8. The truth table of logic function:

- ☐ A Summarizes its output
- ☐ B Tabulates all its input conditions only
- ☐ C Displays all its input/output possible
- ☐ D Is not based on the logic algebra

9. Speed of light, radio waves and microwaves in vacuum is:

- ☐ A $3 \times 10^5 \text{ ms}^{-1}$
- ☐ B $3 \times 10^3 \text{ ms}^{-1}$
- ☐ C $3 \times 10^6 \text{ ms}^{-1}$
- ☐ D $3 \times 10^8 \text{ ms}^{-1}$

10. A student measures a current as 0.05 A. Which of the following correctly expresses this result?

- ☐ A 50 mA
- ☐ B 50 μA
- ☐ C 500 mA
- ☐ D 500 μA

11. With increase in pressure, the speed of sound will:

- ☐ A Increase
- ☐ B Decrease
- ☐ C First increase then decrease
- ☐ D Remain the same

12. The area under the extension-load graph Of an elastic material whose elastic limit has not been exceeded gives its:

- ☐ A Stress
- ☐ B Strain energy
- ☐ C Strain
- ☐ D Young modulus

13. Ionization energy of hydrogen atom is:

- ☐ A 0.54eV
- ☐ B 0.85eV
- ☐ C 3.39eV
- ☐ D 13.6eV

14. Initial velocity of the object with which it goes out of the Earth's gravitational field, is called:

- ☐ A Escape velocity
- ☐ B Threshold velocity
- ☐ C Maximum velocity
- ☐ D Terminal velocity

15. The SI unit of absorbed dose 'D' i.e. radiation effect is Gray and one Gray is equal to:

- ☐ A kJ / mol
- ☐ B J / mol
- ☐ C kg / J
- ☐ D J / kg

16. The electric field at a distance of 20cm from $4\mu\text{C}$ charge is:

- ☐ A $9 \times 10^5 \text{ N / C}$
- ☐ B $3 \times 10^3 \text{ N / C}$
- ☐ C $4.5 \times 10^5 \text{ N / C}$
- ☐ D $9 \times 10^{-5} \text{ N / C}$

17. When the light is moving from rare medium to denser medium on reflection it suffers a phase change of:

- (A) 180°
- (B) 120°
- (C) 90°
- (D) 0°

18. If a particle of mass 5.0 mg moves with the speed of 8.0 m/sec, then the de-Broglie's wavelength will be:

- (A) $1.68 \times 10^{-27} \text{ m}$
- (B) $1.65 \times 10^{-29} \text{ m}$
- (C) $1.70 \times 10^{-25} \text{ m}$
- (D) $1.66 \times 10^{-29} \text{ m}$

19. Which surface has greater magnetic flux in same magnetic field, each has an area 1 m².

- (A) Circular
- (B) Rectangular
- (C) Square
- (D) Flux is independent of shape

20. The unit of conductance is

- (A) Ohm
- (B) Ohm-meter-1
- (C) Ohm - meter
- (D) mho

21. Which of the following is the expression of mean square speed of 'N' gas molecules contained in a cylinder?

- (A) Option A
- (B) Option B
- (C) Option C
- (D) Option D

22. A tiny droplet of oil of density 'p' and radius 'r' falls through air under force of gravity. If viscosity of air is ' η ', the terminal velocity acquired by the oil drop is given by:

- (A) $v_t = 4gr^2\rho / 9\eta$
- (B) $v_t = 9\eta r^2\rho / 4g$
- (C) $v_t = 2gr^2\rho / 9\eta$
- (D) $v_t = 9\eta r^2\rho / 2g$

23. When an object slides at a constant speed down an inclined plane, the coefficient of friction may approximately be:

- (A) $\sin\theta$
- (B) $\cos\theta$
- (C) $\tan\theta$
- (D) $\cot\theta$

24. Three vectors of equal magnitude are acting on the three sides of an equilateral triangle. The magnitude of their resultant is:

- (A) zero
- (B) 3
- (C) $\sqrt{3}$
- (D) 1.73

25. An angular displacement of 90 degrees is equal to:

- (A) One-fourth revolution
- (B) One-third revolution
- (C) One half revolution
- (D) One complete revolution



Mathematics

26. Find the roots of the quadratic equation: $x^2 + 2x - 15 = 0$?

- (A) -5, 3 (B) 3, 5
(C) -3, 5 (D) -3, -5

27. A jogger running at 9 kmph alongside a railway track in 240 metres ahead of the engine of a 120 metres long train running at 45 kmph in the same direction. In how much time will the train pass the jogger?

- (A) 3.6 sec (B) 18 sec
(C) 36 sec (D) 72 sec

28. The angle of elevation of the sun, when the length of the shadow of a tree is $\sqrt{3}$ times the height of the tree, is: _____?

- (A) 30° (B) 45°
(C) 60° (D) 90°

29. What is the least number which when divided by 8, 12, 18 and 24 leaves the remainders 4, 8, 14 and 20 respectively?

- (A) 78 (B) 68
(C) 58 (D) None

30. In what ratio should the profit be divided if M, N, O invests capital in ratio 2:3:5 and their timing of their investments are in the ratio 4:5:6.

- (A) 8:15:30 (B) 5:18:28
(C) 4:5:6 (D) 2:3:5

31. If the sides of a triangle are 26 cm, 24 cm and 10 cm, what is its area?

- (A) 120 cm² (B) 130 cm²
(C) 312 cm² (D) 315 cm²

32. Using Binomial Theorem approximates $(2.02)^4$ upto two decimal places:

- (A) 16.64 (B) 16.44
(C) 16.40 (D) 16.60

33. 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

34. The product of the area of three adjacent faces of a rectangular box is equal to _____?

- (A) the volume of the box
- (B) Twice the volume of the box
- (C) the square of the volume of the box
- (D) Cube root of the volume of the box

35. What is the coefficient of a^4b^4 in the expansion of $(a + b)^{12}$?

- (A) 494
- (B) 495
- (C) 496
- (D) 497

36. Yalmaz can cover a distance of 400 metres in 2 minutes. Rayan can cover 1 km in 300 seconds. Find the ratio of their speeds.

- (A) 2:5
- (B) 4:3
- (C) 1:2
- (D) 1:1

37. The number of rounds that a wheel of diameter $\frac{7}{11}$ m will make in going 4 km is: _____?

- (A) 1000
- (B) 1500
- (C) 1700
- (D) 2000

38. The process used to maximize or minimize a quantity is called,

- (A) optimization
- (B) solution
- (C) both a & b
- (D) none of these

39. A sum of money placed at compound interest doubles itself in 5 years in how many years it would to 8 times of itself at the same rate of interest?

- (A) 7 years
- (B) 10 years
- (C) 15 years
- (D) 20 years

40. The area of a square is 4096 sq cm. Find the ratio of the breadth and the length of a rectangle whose length is twice the side of the square and breadth is 24 cm less than the side of the square.

- (A) 18 : 5
- (B) 7 : 16
- (C) 5 : 14
- (D) None of these

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

- (A) A
- (B) R
- (C) E
- (D) I
- (E) O

42. 605 sweets were distributed equally among children in such a way that the number of sweets received by each child is 20 % of the total number of children. How many sweets did each child receive?

- (A) 11
- (B) 24
- (C) 45
- (D) cannot be determined

43. If the length of diagonal AC of a square ABCD is 5.2 cm then area of the square ABCD is _____?

- (A) 15.12 sq.cm
- (B) 13.52 sq.cm
- (C) 12.62 sq.cm
- (D) 10 sq.cm

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

- (A) 30
- (B) 630
- (C) 10
- (D) 520

45. A large tanker can be filled by two pipes A and B in 60 minutes and 40 minutes respectively. How many minutes will it take to fill the tanker from empty state if B is used for half the time and A and B fill it together for the other half?

- (A) 15 min
- (B) 20 min
- (C) 27.5 min
- (D) 30 min



Everyday Science

20 MCQs

46. The unit of home electricity energy consumption is ?

- (A) Watt hour
- (B) Joule hour
- (C) Killowatt hour
- (D) Kilo joule hour

47. Water vapor is _____?

- (A) A gas
- (B) A cloud droplet
- (C) A rain drop
- (D) A snowflake

48. Leach has _____ number of brains.

- (A) Zero
- (B) 32
- (C) 36
- (D) None of these

49. Sodium Carbonate is commonly called _____?

- (A) Plaster of Paris
- (B) Washing Soda
- (C) Common Salt
- (D) None of these

50. Escape velocity of a rocket fired from the earth towards the moon is a velocity to get rid of the _____?

- (A) Centripetal force due to the earth's rotation
- (B) Earth's gravitational pull
- (C) Pressure of the atmosphere
- (D) Moon's gravitational pull

51. _____ is a star at the center of the solar system?

- (A) Earth
- (B) Mercury
- (C) Sun
- (D) Venus

52. Who invented steamboat?

- (A) James Watt
- (B) Robert Fluton
- (C) Frank Whittle
- (D) George Stephenson

53. Main constituent in air is _____?

- (A) Oxygen
- (B) Nitrogen
- (C) Hydrogen
- (D) Helium

54. Dead red blood corpuscles are stored in _____?

- (A) Liver
- (B) Spleen
- (C) Kidney
- (D) Heart

55. Fisher unit is used to measure?

- (A) Protein content
- (B) Flour color
- (C) Damaged starch
- (D) Flour particle size

56. In Space, our Body _____?

- (A) Gains Weight
- (B) Loses Weight
- (C) No Change
- (D) Little Change

57. The Distance of Neptune From Sun is _____ astronomical unit.

- (A) 28
- (B) 30
- (C) 32
- (D) None of these

58. "Elephant" large unit of paper measurement equal to 28 by _____

- (A) 23 inches
- (B) 25 inches
- (C) 28 inches
- (D) 31 inches

59. The study of the weather is called _____?

- (A) Meteorology
- (B) Weatherology
- (C) Ecology
- (D) Geology

60. Which triplet in DNA codes for valine ?

- (A) CTT
- (B) AGU
- (C) CAT
- (D) AAT
- (E) None of these

61. Permanent hardness of water due to sulphate of metals can be destroyed by the use of _____ ?

- (A) Zeolites
- (B) Sulphonides
- (C) Lime
- (D) Nitrates

62. Sound travels about _____ times faster in water than in air.

- (A) 2
- (B) 3
- (C) 4
- (D) 5

63. Which rays are trapped in our galaxy by magnetic waves?

- (A) Alpha rays
- (B) Gamma rays
- (C) Cosmic rays
- (D) None of these

64. In radio, what does the FM stands for?

- (A) Frequency modulation
- (B) Frequency meter
- (C) Fiber modulation
- (D) Frequency Magnet

65. The phenomenon of Aurora Borealis, the display of red and green lights in northern hemisphere is due to radiations from _____ ?

- (A) Ionosphere
- (B) Troposphere
- (C) Mesosphere
- (D) Stratosphere
- (E) None of these



English

20 MCQs

66. Identify the error and choose the correct option: The rehearsal session started and we have little time to spar for other activities.

- (A) The rehearsal session started and we have little time to spare for other activities.
- (B) The rehearsal session started, and we little time to spare for other activities.
- (C) The rehearsal session starts and we has little time to spare for other activities.
- (D) We are little time to spare for other activities, the rehearsals session starts.

67. I moved to Lahore _ the age of ten. The correct preposition to fill in the blank will be:

- (A) on
- (B) at
- (C) by
- (D) above

68. Antonym of Generous will be:

- ☐ A Cruel
- ☐ B Noble
- ☐ C Selfish
- ☐ D Lavish

69. 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 Resposen 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.

70. Identify the MISTAKE in the following question: I was faced with alternatively of either evicting the books or else leaving them in sole, undisturbed tenancy and taking rooms elsewhere for myself.

- ☐ A With alternatively
- ☐ B Of either
- ☐ C Or else
- ☐ D Taking rooms

71. We were moved _ the cat struggling to save her kitten.

- ☐ A See
- ☐ B Saw
- ☐ C To have seen
- ☐ D To see

72. Choose the word opposite in meaning to the capitalized word "ANARCHIC":

- ☐ A Riotous
- ☐ B Turbulent
- ☐ C Disordered
- ☐ D Organized

73. In the following question four alternative sentences are given. Choose the CORRECT option:

- ☐ A The parent who I have offended often come around after a term of years and tell me that his son was right.
- ☐ B The parent who I have offended often comes around after a term of years and tell me that his son was right.
- ☐ C The parents whom I have offended often comes around after a term of years and tells that his son was right.
- ☐ D The parent whom I have offended often comes around after a term of years and tells me that his son was right.

74. Which one of the following sentence contains both a fact and an opinion?

- ☐ A Pakistan came into being in 1947 and the Quaid-e-Azam became the first governor general.
- ☐ B Mangoes are delicious, but apples are not.
- ☐ C The horse is an animal riding which is an exciting experience.
- ☐ D Islam is one of the Abrahamic religions and so is Christianity.

75. Choose the word most similar in meaning to the capitalized word "PRODIGIOUS".

- (A) Enormous
- (B) Sacred
- (C) Seismic
- (D) Tiny

76. Which of the following is grammatically correct?

- (A) In the end, they found there money over they're by the ATM.
- (B) In the end, they found they're money over their by the ATM.
- (C) In the end, they found their money over there by the ATM.
- (D) In the end, they found there money over their by the ATM.

77. Pick up the wrong part in the sentence: The beautiful and the most attractive picture was hanged on the wall.

- (A) The beautiful
- (B) The most
- (C) Was
- (D) Hanged

78. Communication technology has brought a tremendous revolution in modern societies. Select the correct passive voice:

- (A) A tremendous revolution has been brought by communication technology in modern societies.
- (B) In modern societies, a tremendous revolution has been brought in communication technology.
- (C) A tremendous revolution has brought in communication technology in modern societies.
- (D) Communication technology has tremendous revolution brought in modern societies.

79. The word opposite in the meaning to zealous is:

- (A) Dedicated
- (B) Fanatical
- (C) Apathetic
- (D) Rabid

80. Choose the correct spelling:

- (A) Entripreneur
- (B) Entrepreneur
- (C) Entreprenuer
- (D) Entreprineur

81. Select the incorrect segment: The police, in their investigation, used coercive measure to get a favorable statement from the accused.

- (A) Measure
- (B) To
- (C) From
- (D) The accused

82. Choose the correctly structured sentence.

- (A) Mr. Shan. with his family together goes to England.
- (B) Mr. Shan, together with his family, goes to England.
- (C) Mr. Shan. together with his farni y, go to England.
- (D) Mr. Shan, with his family, go to England together

83. A successful businessman is _ of the risks.

- (A) Audacious
- (B) Agoraphobic
- (C) Dismay
- (D) Coerce

84. Select the correct sentence:

- (A) My feet seemed hardly to touch the earth.
- (B) My feet hardly seemed to touch the earth.
- (C) Hardly my feet seemed to touch the earth.
- (D) My feet seemed to touch the earth hardly.

85. Identify the incorrect segment: The police report excused Anwar of all charges of corruption and job was also restored.

- (A) excused
- (B) of
- (C) also
- (D) restored



General Knowledge

15 MCQs

86. The slogan of Mercedes-Benz is _____?

- (A) The best or nothing
- (B) Sheer Driving Pleasure
- (C) The Power of Dreams
- (D) None

87. "Fire and Fury" Inside the Trump White House is written by

- (A) Carl Bernstein
- (B) Christiane Amanpour
- (C) Michael Wolff
- (D) Bob Woodward

88. Who was the 16th President of the United States?

- (A) Barack Obama
- (B) Abraham Lincoln
- (C) Donald Trump
- (D) None of these

89. The word "OPF" stands for _____?

- (A) Overseas Pakistan Federation
- (B) Overseas People Federation
- (C) Overseas Pakistanis Foundation
- (D) None of these

90. When The International Association of Athletics Federations (IAAF) founded in Stockholm, Sweden?

- (A) 17 July 1912
- (B) 17 July 1914
- (C) 17 July 1916
- (D) 17 July 1918

91. For which of the following disciplines Nobel Prize is awarded?

- (A) Physics and Chemistry
- (B) Physiology or Medicine
- (C) Literature, Peace and Economics
- (D) all of these

92. Atlas Mountain is found in _____?

- (A) Niger
- (B) Congo
- (C) Morocco
- (D) Italy

93. First Country to Grant Citizenship to a Robot?

- (A) China
- (B) Srilanka
- (C) Saudi Arabia
- (D) India

94. Out of Many, One: Portraits of America's Immigrants is the famous book written by?

- (A) Barack Obama
- (B) John F. Kennedy
- (C) George W. Bush
- (D) None of these

95. Ibn Sina was born in which country?

- (A) Uzbekistan
- (B) Tajikistan
- (C) Kyrgyzstan
- (D) Kazakhstan

96. ISI stands for _____?

- (A) International Service Intelligence
- (B) Inter Security Intelligence
- (C) International Security Institution
- (D) Inter Services Intelligence.

97. Term Chinaman is related to which sports ?

- (A) Football
- (B) Cricket
- (C) Hockey
- (D) Volleyball

98. The United Nations was founded on _____?

- (A) March 24, 1945
- (B) October 24, 1945
- (C) March 24, 1949
- (D) October 24, 1950

99. In which country is the volcano Mount Aso?

- (A) China
- (B) Taiwan
- (C) Japan
- (D) None of these

100. When was bar code scanner invented _____?

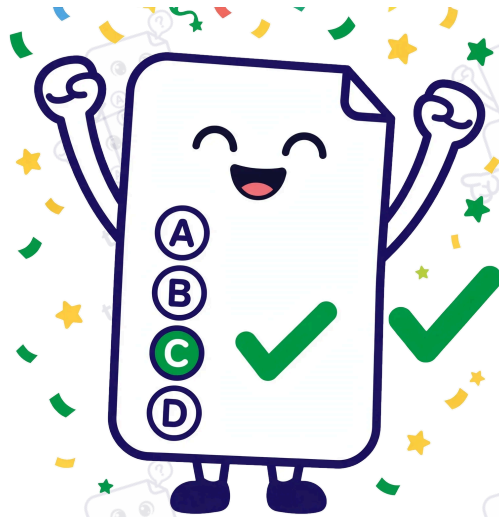
- (A) 1950s
- (B) 1960s
- (C) 1970s
- (D) 1980s

Answer key

Tap any answer to open its full explanation on TestUstad.

Model Paper 1

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



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