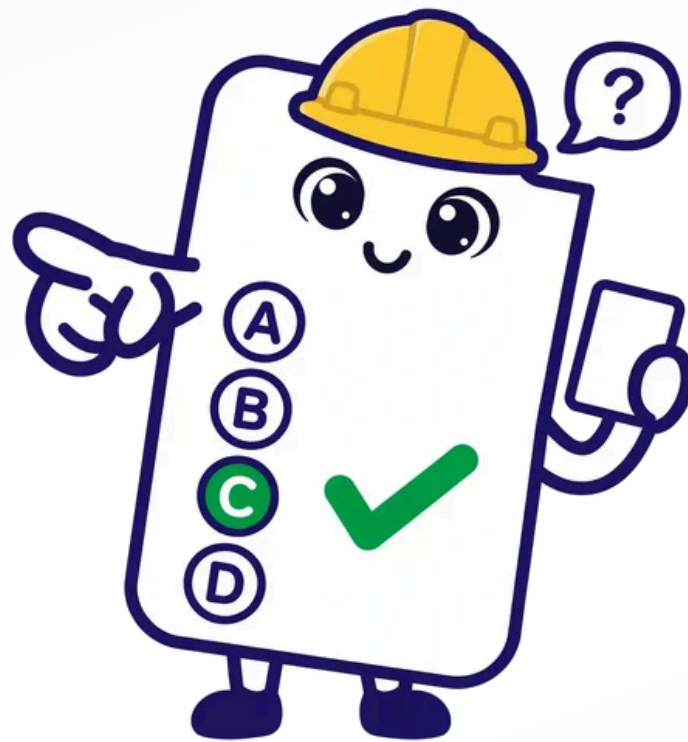




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100 MCQs across one paper, each drawn in the same subject split as the real NED paper:

- Mathematics: 30 MCQs per paper
- Physics: 30 MCQs per paper
- Chemistry: 30 MCQs per paper
- English: 10 MCQs per paper



MODEL PAPER 1 OF 1

NED Admission Test

100 MCQs · 120 minutes · answer key at the back

**Mathematics**

30 MCQs

1. Find the least number which when divided by 6, 7, 8, 9 and 10 leaves 1, 2, 3, 4 and 5 as remainders respectively, but when divided by 19 leaves no remainder?

- (A) 5073 (B) 5016
(C) 5054 (D) 5035

2. A solid consists of a circular cylinder with an exact fitting right circular cone placed on the top. The height of the cone is h . If the total volume of the solid is three times the volume of the cone then the height of the cylinder is _____?

- (A) $2h$ (B) $4h$
(C) $2h/3$ (D) $3h/2$

3. A and B can finish a piece of work in 20 days .B and C in 30 days and C and A in 40 days. In how many days will A alone finish the job?

- (A) 48 (B) $34\frac{2}{7}$
(C) 44 (D) 45

4. In how many different ways can four books A, B, C and D be arranged one above another in a vertical order such that the books A and B are never in continuous position?

- (A) 9 (B) 12
(C) 14 (D) 18

5. The length and breadth of a square are increased by 40% and 30% respectively. The area of the resulting rectangle exceeds the area of the square by: _____?

- (A) 42% (B) 62%
(C) 82% (D) none of these

6. The population of a town increases 4 % annually but is decreased by emigration annually to the extent of $(\frac{1}{2})\%$. What will be the increase percent in three years?

- (A) 9.8 (B) 10
(C) 10.5 (D) 10.8

7. The sum of the square of the three consecutive even natural numbers is 1460. Find the numbers?

- (A) 18, 20, 22 (B) 20, 22, 24
(C) 22, 24, 26 (D) 24, 26, 28

8. A wooden box of dimensions $8\text{m} \times 7\text{m} \times 6\text{m}$ is to carry rectangular boxes of dimensions $8\text{cm} \times 7\text{cm} \times 6\text{cm}$. The maximum number of boxes that can be carried in 1 wooden box is?

- (A) 1200000 (B) 1000000
(C) 9800000 (D) 7500000

9. A boats man can row in still water at speed of 7 km/hr . It takes 6 hours more to travel the same distance in upstream than in downstream if the speed of the river is 3 km/hr . what is the distance between the two destinations?

- (A) 20 km (B) 40 km
(C) 30 km (D) 10 km

10. In a series of six consecutive even numbers, the sum of the second and sixth numbers is 24. What is the fourth number?

- (A) 8 (B) 12
(C) 6 (D) 14
(E) None of these

11. 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

12. Jameel can complete a task in 15 hours and Nasir can complete the same task in 12 hours. Jameel starts the task at 9:00 am and stops working at 2:00pm. Nasir starts working on the task at 4:00 pm. At what time is the task completed?

- (A) 12:00 pm (B) 2:00 am
(C) 12:00 am (D) 10:00 pm

13. Find the least multiple of 13 which when divided by 6, 8 and 12 leaves 5, 7 and 11 as remainders respectively? A. 143 B. 169 C. 260 D. 221

- (A) 143 (B) 169
(C) 260 (D) 221

14. The perimeter of a semi circle is 144 cm then the radius is _____?

- (A) 25 cm (B) 28 cm
(C) 30 cm (D) 35 cm

15. The current of a stream runs at the rate of 4 kmph . A boat goes 6 km and back to the starting point in 2 hours, then find the speed of the boat in still water?

- (A) 10 kmph (B) 21 kmph
(C) 8 kmph (D) 12 kmph

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

- (A) YCAEC
- (B) KOMQO
- (C) PTRUT
- (D) GKIMK
- (E) DHFJH

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

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

18. A train passes a station platform in 36 seconds and a man standing on the platform in 20 seconds. If the speed of the train is 54 km/hr, what is the length of

- (A) 120
- (B) 260
- (C) 240
- (D) 220

19. A statement that contains at least one of the symbols $<$, $>$, is called

- (A) an equation
- (B) an inequality
- (C) both a and b
- (D) None

20. 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

21. The difference between compound and simple interest on a certain sum of money for 3 years at $6\frac{2}{3}\%$ p.a is Rs.184. Find the sum?

- (A) Rs.12000
- (B) Rs.14200
- (C) Rs.17520
- (D) Rs.13500

22. The sum of four consecutive even numbers is 292. What would be the smallest number?

- (A) 74
- (B) 76
- (C) 70
- (D) 68
- (E) None of these

23. How many minimum number's of whole square slabs are required for paving the floor 12.96 meters long and 3.84 meters side?

- (A) 216
- (B) 192
- (C) 108
- (D) 256

24. The monthly incomes of A and B are in the ratio 5 : 2. B's monthly income is 12% more than C's monthly income. If C's monthly income is Rs. 15000, then find the annual income of A?

- (A) Rs. 420000
- (B) Rs. 180000
- (C) Rs. 201600
- (D) Rs. 504000
- (E) None of these

25. Find the number of ways of arranging the letters of the word "MATERIAL" such that all the vowels in the word are to come together?

- (A) 720
- (B) 1440
- (C) 1860
- (D) 2160

26. The radius of the base of cone is 3 cm and height is 4 cm. Find the volume of the cone?

- (A) $12 \pi \text{ cm}^3$
- (B) $6 \pi \text{ cm}^3$
- (C) $8 \pi \text{ cm}^3$
- (D) $10 \pi \text{ cm}^3$

27. What is the difference between the compound interest on Rs.12000 at 20% p.a. for one year when compounded yearly and half yearly?

- (A) Rs.140
 - (B) Rs.120
 - (C) Rs.130
 - (D) Rs.110
 - (E) None of these.
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28. I. $x^2 + 9x + 20 = 0$, II. $y^2 + 5y + 6 = 0$ to solve both the equations to find the values of x and y?

- (A) If $x < y$
- (B) If $x > y$
- (C) If $x \leq y$
- (D) If $x \geq y$

29. The parameter of a square is double the perimeter of a rectangle. The area of the rectangle is 480 sq cm. Find the area of the square.

- (A) 200 sq cm
- (B) 72 sq cm
- (C) 162 sq cm
- (D) Cannot be determined

30. A and B can together do a piece of work in 15 days. B alone can do it in 20 days. In how many days can A alone do it ?

- (A) 40 days
- (B) 50 days
- (C) 60 days
- (D) 70 days



Physics

30 MCQs

31. The direction of torque is:

- (A) Parallel to the plane of F and y
- (B) Perpendicular to the plane of F and y
- (C) Anti parallel to the plane of F and y
- (D) Is the same as that of the plane of F and y

32. If an electron and a proton are projected with the same velocity normal to a magnetic field, which one will suffer greater deflection?

- (A) proton
- (B) electron
- (C) both will suffer greater deflection
- (D) None of these

33. A potential barrier of 0.7 volt exists across P- N junction made from:

- (A) Gallium
- (B) Indium
- (C) Germanium
- (D) Silicon

34. The time period of communication satellites is:

- (A) 1 hour
- (B) 2 hour
- (C) 12 hours
- (D) 24 hours

35. ML-1T-1 are the dimension of

- (A) angular momentum
- (B) power
- (C) impulse
- (D) viscosity

36. A single mode step index fibre has a core of about _ μm diameter

- (A) 50 to 1000
- (B) 50
- (C) 30
- (D) 5

37. A wire has resistance 100 ohm at 0 C and 200 Ohm at 100 C. What is its temperature coefficient in K-1?

- (A) -0.01
- (B) -1/273
- (C) 0.01
- (D) 1/273

38. When dielectric is removed from plates of a charged capacitor then electric field between plates:

- (A) Remains unchanged
- (B) Decreases
- (C) Increases
- (D) All of the above

39. If 'V' is applied potential difference across a resistance 'R', then loss in potential energy per unit time is:

- (A) VI
- (B) I²R
- (C) V²/R
- (D) All of the above

40. The relation $R/NA = 1.38 \times 10^{-25} \text{ JK}^{-1}$ in a gas law is known as:

- (A) Avogadro's constant
- (B) Charles constant
- (C) Newton's constant
- (D) Boltzmann's constant

41. The curved shape of an airplane wing causes air to move faster over the top surface. This leads to:

- (A) Greater pressure on the top
- (B) Lower pressure on the top
- (C) Equal pressure on both sides
- (D) Zero pressure above the wing

42. Life time of electron in metastable state is about _.

- (A) 10⁻⁵ sec
- (B) 10⁻³ sec
- (C) 10⁻⁸ sec
- (D) 10⁻² sec

43. The unit —henry|| is equivalent to:

- (A) Volt-second/ampere
- (B) Volt/second
- (C) Ohm
- (D) Ampere volt/second

44. Which of the following is a boson:

- (A) Proton
- (B) Neutrino
- (C) Photon
- (D) Pion

45. A particle is moving in a circle of radius r with constant angular speed w . its acceleration directed towards the center of circle is:

- (A) w/r
- (B) w²/r
- (C) w²r
- (D) Wr²

46. An organ pipe of length T has one end closed but the other end open. What is the wavelength of the fundamental node emitted?

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

47. A ball is thrown into the air with certain velocity v making an angle with horizontal. If air resistance is neglected, then at maximum height its velocity is:

- (A) Equal to initial velocity
- (B) Half of initial velocity
- (C) Equal to zero
- (D) Minimum but not zero

48. The minimum frequency below which no electron is emitted from the metal surface is called:

- (A) High frequency
- (B) Low frequency
- (C) Threshold frequency
- (D) Resonance frequency

49. Select the true statement about the amorphous solids:

- (A) Amorphous substances have a sharp melting point
- (B) Amorphous substances do not have a fixed melting point
- (C) Amorphous substances have proper geometrical shapes
- (D) The particles in amorphous substances are arranged in an orderly manner

50. In Fleming's right hand rule, the second finger indicates:

- (A) Force
- (B) Induced current
- (C) Magnetic field
- (D) Motion

51. Two equal, anti-parallel, and nonconcurrent forces are:

- (A) Couple
- (B) Couple arm
- (C) Collinear forces
- (D) Torque

52. Which type of field is present near a moving electric charge?

- (A) An electric field only
- (B) A magnetic field only
- (C) Both magnetic and electric field
- (D) Magnetic and gravitational field

53. In a transistor, the emitter to base function is:

- (A) Reversed biased
- (B) Forward biased
- (C) Neutral
- (D) None of these

54. A moon rotates about its axis. In the future, scientists may wish to put a satellite into an orbit around the moon such that the satellite remains stationary above one point on moon surface, the period of rotation of moon about its axis is 27.4 days, what is the radius of required orbit? Mass of the moon = 7.35×10^{22} kg

- (A) 3.59×10^7 m
- (B) 4.23×10^7 m
- (C) 8.86×10^7 m
- (D) 6.96×10^6 m

55. The dimensions of angular acceleration are:

- (A) T-2
- (B) LT-2
- (C) LT-1
- (D) M1T-2

56. In Newton ring apparatus, at the point of contact of the lens and glass plate, the additional path difference introduced is:

- (A) $\lambda/4$
- (B) $\lambda/2$
- (C) λ
- (D) $\lambda/3$

57. Power transfer will be maximum when:

- (A) $R > r$ (B) $R < r$
(C) $R = r$ (D) $R = 1/r$

58. Electric field strength at position vector $r = (4i + 3j)m$ caused by point charge $q = 5\mu C$ placed at origin is:

- (A) $1440i + 1080j V/m$ (B) $1240i + 1280j N/C$
(C) $1440i + 1080j N/C$ (D) $1240i + 1080j N/C$

59. A fisherman lifts a fish of mass 250 g from rest through a vertical height of 1.8 m. The fish gains a speed of 1.1 m/s. What is the energy gained by the fish?

- (A) 0.15 J (B) 4.3 J
(C) 4.4 J (D) 4.6 J

60. Lower fixed point of Celcius scale:

- (A) $32^{\circ}C$ (B) $100^{\circ}C$
(C) $273^{\circ}C$ (D) $0^{\circ}C$



Chemistry

30 MCQs

61. Due to inert pair effect _ oxidation state is more stable than _ for Pb.

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

62. Displacement reaction that proceeds by the SN_2 mechanism are most successful with compounds that are:

- (A) Neopentyl system
(B) Tertiary compound with no branch
(C) Secondary halides
(D) Primary compound with no branch at β - carbon

63. Molar extinction coefficient (ϵ) a constant in Beer- Lambert law is the characteristics of the:

- (A) Solute (B) Solvent
(C) Concentration (D) All of the above

64. CO_2 is isostructural with:

- (A) $HgCl_2$ (B) $SnCl_2$
(C) C_2H_2 (D) NO_2

65. Which is the strongest acid:

- (A) Ethanol
- (B) Acetic acid
- (C) Chloroacetic acid
- (D) Fluoroacetic acid

66. Collagen and albumin are:

- (A) Simple proteins
- (B) Derived proteins
- (C) Polyamides
- (D) Polysaccharides

67. If ionic product is less than K_{sp} then:

- (A) Solution will be saturated
- (B) Precipitation will occur
- (C) Solution will be super saturated
- (D) No precipitation will occur

68. Keeping in mind the electrode potential, which one of the following reactions is feasible?

- (A) $Zn + 2 + Cu \rightarrow Cu + 2 + Zn$
- (B) $Zn + MgSO_4 \rightarrow ZnSO_4 + Mg$
- (C) $Fe + CuSO_4 \rightarrow FeSO_4 + Cu$
- (D) $Cd + MgSO_4 \rightarrow CdSO_4 + Mg$

69. Polymerization is a process of producing:

- (A) High molecular weight compounds from monomers
- (B) Low molecular weight compounds from monomers
- (C) Intermediate molecular weight compound from monomers
- (D) High molecular weight compounds from polymers

70. Pyrrole belongs to which class of compounds?

- (A) Hydrocarbons
- (B) Homocyclic
- (C) Alicyclic
- (D) Heterocyclic

71. Water has a vapor pressure of 23.75 at 25°C what is the vapor pressure of a solution sucrose if its mole fraction is 0.25?

- (A) 15.2 torr
- (B) 17.8 torr
- (C) 23.8 torr
- (D) 29.7 torr

72. Which of the following does not show variable valency?

- (A) Mn
- (B) Fe
- (C) Zn
- (D) Cr

73. Commonly used coagulant used for the purification of water is:

- (A) $Ca(NO_3)_2$
- (B) $MgCl_2$
- (C) $Al_2(SO_4)_3$
- (D) $Ca(OH)_2$

74. Which of the following formation is endothermic reaction?

- (A) $2 H_2 (g) + O_2 (g) \rightarrow 2 H_2O (l)$
- (B) $C(s) + O_2 (g) \rightarrow CO_2(g)$
- (C) $N_2(g) + O_2 (g) \rightarrow N_2O_2 (g)$
- (D) None of these

75. The charge on one gram of electrons is:

- (A) 1.7588×10^{-11}
- (B) 1.7588×10^{11}
- (C) 1.602×10^{-19}
- (D) 1.7588×10^8

76. A gas diffuses $\frac{1}{2}$ times as fast as hydrogen, its molecular mass is:

- (A) 50 amu
- (B) 25 amu
- (C) 16 amu
- (D) 8 amu

77. If we take some water at 0°C and start heating it, we find that in the temperature range of 0°C to 4°C :

- (A) It expands on heating
- (B) It contracts on heating
- (C) Both
- (D) None

78. The process of filtration is used to separate particles _ from liquids.

- (A) Radial.
- (B) Angular.
- (C) Insoluble.
- (D) Soluble

79. The mole fraction of NaCl, in a solution containing 1 mole of NaCl in 1000g of water is:

- (A) 0.0177
- (B) 0.001
- (C) 0.5
- (D) 0.244

80. Alkenes undergo:

- (A) Electrophilic Addition
- (B) Electrophilic substitution
- (C) Nucleophilic substitution
- (D) Nucleophilic addition

81. Phenol is known as:

- (A) Carpolic acid
- (B) Carbonylic acid
- (C) Carbolic acid
- (D) Carbolylic acid

82. Whenever the crystalline solids are broken they do so along definite planes known as:

- (A) Cleavage planes
- (B) Refractory planes
- (C) Sagittal planes
- (D) Coronal planes

83. When nitric oxide reacts with ozone, the order of reaction will be:

- (A) 2nd
- (B) 3rd
- (C) 1st
- (D) Zero

84. Ethanal reacts with $\text{CH}_3\text{CH}_2\text{Mg Br}$ the product formed is:

- (A) $\text{CH}_3\text{CH}_2\text{OH}$
- (B) $\text{CH}_3\text{CH}_2\text{CHO}$
- (C) $\text{CH}_3\text{CH}(\text{OH})\text{CH}_2\text{CH}_3$
- (D) $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$

85. Which of the following can function as Lewis acid?

- (A) CN^-
- (B) NH_3
- (C) $\text{CH}_3 - \text{O} - \text{CH}_3$
- (D) I^+

86. Sodium carbonate, when fused with sand, forms sodium silicate, which is commonly known as

- (A) Soda glass
- (B) Water glass
- (C) Jinnah glass
- (D) Pyrex glass

87. Which one is a strong nucleophile:

- (A) $\text{C}_6\text{H}_5\text{O}^-$
- (B) $\text{H}-\text{O}^-$
- (C) NH_3
- (D) $\text{C}_2\text{H}_5\text{O}^-$

88. Which region of electromagnetic spectrum is involved in nuclear magnetic resonance microwave (NMR spectroscopy)?

- (A) Microwave
- (B) Radio wave
- (C) Infrared region
- (D) X-rays

89. Bond angle is 120° in:

- (A) Ethane
- (B) Ethyne
- (C) Ethene
- (D) Cyclopropane

90. What happens if we react a carboxylic acid with an acyl chloride?

- (A) It forms an acid anhydride
- (B) It forms an acyl halide
- (C) It does not react due to resonance
- (D) It does not react due to bad leaving group



English

10 MCQs

91. 'ARABLE' means:

- (A) Not grown since long
- (B) Recently ploughed field
- (C) Watered the night before
- (D) Fit for cultivation

92. In each of the following questions, four alternative sentences are given. Choose the correct one.

- (A) When the fact failed him, he questions his senses.
- (B) When the fact failed him, he questioned from his senses.
- (C) When the fact fails him, he questions his senses.
- (D) He will question his senses, when the fact will fail him.

93. 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.

94. 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 Response Form.

- (A) E-mail is a relatively new mean of communication.
- (B) E-mail is a relatively new means of communication.
- (C) E-mail is a relatively new mean to communication.
- (D) E-mail is a relatively new means to communication.

95. In each of the following question, four alternative meanings of a word are given. You have to select the nearest correct meaning of the given word and fill the appropriate.Eccentric

- (A) Lunatic
- (B) Stern
- (C) Upset
- (D) Odd

96. Select indirect speech"I have been to Spain," he told me.

- (A) He told me that he could visit Spain
- (B) He told me that he has visited Spain
- (C) He told me that he had been to Spain
- (D) He told me that he has been to Spain

97. 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

98. 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.

99. "She was elated when she got first position in exams." What is the meaning of "elated" in this sentence?

- (A) Disappointed
- (B) Worried
- (C) Excited
- (D) Mad

100. I _ English for five years.

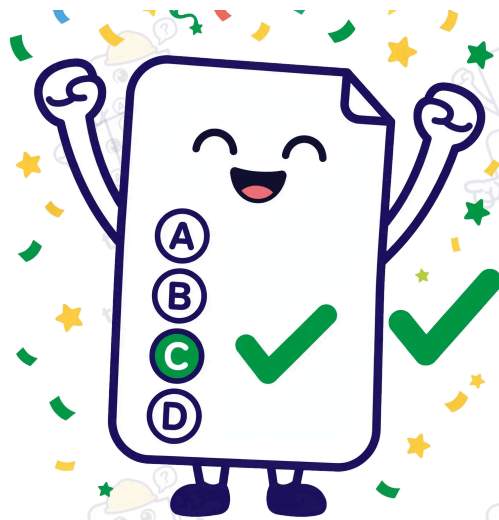
- ☐ A Study
- ☐ B Am Studying
- ☐ C Have been Studying
- ☐ D Studies

Answer key

Tap any answer to open its full explanation on TestUstad.

Model Paper 1

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



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