

# AMU Class 11 Science Full Mock Test 2026

Based on official-style 100 mark distribution: Science 50, Maths 30, GK 5, English 5, IIC 10.

|                           |                                     |
|---------------------------|-------------------------------------|
| <b>Resource type</b>      | Original practice PDF               |
| <b>Total marks</b>        | 100                                 |
| <b>Suggested duration</b> | 2 hours                             |
| <b>Options</b>            | A, B, C, D                          |
| <b>Use with</b>           | OMR practice sheet + answer key PDF |

- This is original practice material created for student preparation, not an official AMU question paper.
- Solve in exam conditions using a timer and the OMR practice sheet.
- Check the separate answer key PDF after attempting the paper.
- Verify latest admission notices, pattern and syllabus from AMU Controller Exams before the real test.

## Science - Physics (15 questions)

1. The SI unit of force is:  
A. Joule  
B. Newton  
C. Watt  
D. Pascal
2. The slope of a velocity-time graph gives:  
A. speed  
B. distance  
C. acceleration  
D. mass
3. A body continues in its state of rest or uniform motion due to:  
A. friction  
B. inertia  
C. gravity  
D. pressure
4. The value of acceleration due to gravity near Earth is approximately:  
A. 9.8 m/s<sup>2</sup>  
B. 98 m/s<sup>2</sup>  
C. 0.98 m/s<sup>2</sup>  
D. 1.6 m/s<sup>2</sup>
5. Power is the rate of doing:  
A. force  
B. work  
C. pressure  
D. density
6. The commercial unit of electrical energy is:  
A. watt  
B. volt  
C. kilowatt hour  
D. ampere
7. An echo is produced due to the reflection of:  
A. light  
B. sound  
C. heat

- D. electricity
8. A device used to measure electric current is:
- A. voltmeter
  - B. ammeter
  - C. barometer
  - D. thermometer
9. The magnetic field lines outside a bar magnet move from:
- A. south to north
  - B. north to south
  - C. east to west
  - D. centre to pole
10. The image formed by a plane mirror is:
- A. real and inverted
  - B. virtual and erect
  - C. real and enlarged
  - D. virtual and inverted
11. The unit of pressure is:
- A. Pascal
  - B. Newton
  - C. Joule
  - D. Coulomb
12. A freely falling body has:
- A. zero acceleration
  - B. constant acceleration
  - C. decreasing mass
  - D. increasing weight
13. Sound cannot travel through:
- A. air
  - B. water
  - C. steel
  - D. vacuum
14. The resistance of a conductor generally increases when its length:
- A. increases
  - B. decreases
  - C. becomes zero
  - D. does not matter
15. The law of conservation of energy states that energy:
- A. can be created
  - B. can be destroyed
  - C. can change form but total remains constant
  - D. always decreases

## Science - Chemistry (15 questions)

16. An acid turns blue litmus paper:
- A. red
  - B. green
  - C. yellow
  - D. black
17. A solution with pH less than 7 is generally:
- A. basic
  - B. acidic
  - C. neutral

- D. salty only
18. The smallest particle of an element that retains its chemical properties is:
- A. molecule
  - B. atom
  - C. compound
  - D. ion only
19. The atomic number of an element is equal to its number of:
- A. neutrons
  - B. protons
  - C. electrons plus neutrons
  - D. molecules
20. The chemical formula of common salt is:
- A. NaCl
  - B. NaOH
  - C. HCl
  - D. CaCO<sub>3</sub>
21. A reaction in which oxygen is added to a substance is called:
- A. reduction
  - B. oxidation
  - C. neutralisation
  - D. precipitation
22. Metals are generally good conductors of:
- A. heat and electricity
  - B. only sound
  - C. only light
  - D. none
23. The gas released when acids react with metals is generally:
- A. oxygen
  - B. hydrogen
  - C. nitrogen
  - D. carbon dioxide
24. A base that dissolves in water is called:
- A. acid
  - B. alkali
  - C. salt
  - D. oxide
25. The modern periodic table is arranged mainly according to:
- A. atomic mass only
  - B. atomic number
  - C. density
  - D. colour
26. Carbon has valency:
- A. 1
  - B. 2
  - C. 4
  - D. 8
27. Rusting of iron requires oxygen and:
- A. oil
  - B. water
  - C. nitrogen
  - D. sand
28. The chemical formula of water is:

- A. CO<sub>2</sub>
- B. H<sub>2</sub>O
- C. O<sub>2</sub>
- D. H<sub>2</sub>SO<sub>4</sub>

29. When an acid and a base react, they form salt and:

- A. hydrogen
- B. oxygen
- C. water
- D. carbon

30. Non-metals are generally:

- A. malleable
- B. ductile
- C. poor conductors
- D. shiny metals

### Science - Life Science (20 questions)

31. The green pigment responsible for photosynthesis is:

- A. haemoglobin
- B. chlorophyll
- C. melanin
- D. insulin

32. The site of aerobic respiration in a cell is:

- A. nucleus
- B. mitochondria
- C. ribosome
- D. cell wall

33. Xylem mainly transports:

- A. food
- B. water and minerals
- C. hormones
- D. oxygen

34. The functional unit of the kidney is:

- A. neuron
- B. nephron
- C. alveolus
- D. stomata

35. The process by which plants lose water vapour is:

- A. transpiration
- B. respiration
- C. digestion
- D. excretion

36. The basic unit of heredity is:

- A. gene
- B. tissue
- C. organ
- D. enzyme

37. Insulin is secreted by:

- A. liver
- B. pancreas
- C. kidney
- D. heart

38. The male gamete in humans is:

- A. ovum
  - B. sperm
  - C. zygote
  - D. embryo
39. The part of the brain that controls balance is:
- A. cerebrum
  - B. cerebellum
  - C. medulla
  - D. spinal cord
40. A group of similar cells performing a function is called:
- A. organ
  - B. tissue
  - C. system
  - D. organism
41. The exchange of gases in lungs occurs in:
- A. alveoli
  - B. nephrons
  - C. villi
  - D. bronchi only
42. The hormone associated with fight-or-flight response is:
- A. adrenaline
  - B. thyroxine
  - C. insulin
  - D. estrogen
43. In a food chain, green plants are:
- A. consumers
  - B. decomposers
  - C. producers
  - D. parasites
44. The full form of DNA is:
- A. Deoxyribonucleic acid
  - B. Dinitrogen acid
  - C. Dynamic nuclear atom
  - D. Digestive nucleic alkali
45. Vaccination helps the body develop:
- A. immunity
  - B. digestion
  - C. respiration
  - D. excretion
46. The movement of water through a semipermeable membrane is:
- A. diffusion
  - B. osmosis
  - C. transpiration
  - D. evaporation
47. The organ that pumps blood in humans is:
- A. lungs
  - B. heart
  - C. kidney
  - D. stomach
48. The female reproductive part of a flower is:
- A. stamen
  - B. pistil

- C. sepal
- D. petal

49. A biodegradable waste item is:

- A. plastic bottle
- B. vegetable peel
- C. glass piece
- D. metal can

50. The process of breakdown of food to release energy is:

- A. nutrition
- B. respiration
- C. transportation
- D. coordination

## Mathematics (30 questions)

51. If  $x + 5 = 12$ , then  $x$  is:

- A. 5
- B. 7
- C. 12
- D. 17

52. The value of  $2^5$  is:

- A. 10
- B. 16
- C. 25
- D. 32

53. The product of roots of  $x^2 - 5x + 6 = 0$  is:

- A. 5
- B. 6
- C. -5
- D. -6

54. The distance between (0,0) and (3,4) is:

- A. 5
- B. 7
- C. 1
- D. 12

55. The sum of first 10 natural numbers is:

- A. 45
- B. 50
- C. 55
- D. 60

56. The area of a circle of radius  $r$  is:

- A.  $2\pi r$
- B.  $\pi r^2$
- C.  $\pi d$
- D.  $r^2$

57. If a triangle has angles 50 and 60 degrees, the third angle is:

- A. 60
- B. 70
- C. 80
- D. 90

58. The probability of getting a head in one toss of a fair coin is:

- A. 0
- B.  $\frac{1}{4}$

- C.  $\frac{1}{2}$   
D. 1
59. The median of 3, 5, 7, 9, 11 is:  
A. 5  
B. 7  
C. 9  
D. 11
60. The value of  $(a+b)^2$  is:  
A.  $a^2+b^2$   
B.  $a^2+2ab+b^2$   
C.  $a^2-2ab+b^2$   
D.  $2a+2b$
61. If  $3x = 21$ , then  $x$  is:  
A. 6  
B. 7  
C. 8  
D. 9
62. The coordinate of a point on y-axis has x-coordinate:  
A. 0  
B. 1  
C. -1  
D. any non-zero value
63. The HCF of 12 and 18 is:  
A. 2  
B. 3  
C. 6  
D. 36
64. The LCM of 4 and 6 is:  
A. 6  
B. 10  
C. 12  
D. 24
65. The square root of 144 is:  
A. 10  
B. 11  
C. 12  
D. 14
66. If two lines never meet, they are:  
A. parallel  
B. perpendicular  
C. intersecting  
D. coincident only
67. The volume of a cube of side 3 cm is:  
A.  $9 \text{ cm}^3$   
B.  $18 \text{ cm}^3$   
C.  $27 \text{ cm}^3$   
D.  $36 \text{ cm}^3$
68. If  $\sin \theta = 0$  for  $\theta =$   
A. 0 degree  
B. 30 degree  
C. 60 degree  
D. 90 degree

69. The graph of a linear equation in two variables is a:
- A. circle
  - B. straight line
  - C. parabola
  - D. point only
70. The degree of polynomial  $5x^3 + 2x + 1$  is:
- A. 1
  - B. 2
  - C. 3
  - D. 5
71. The mean of 2, 4, 6, 8 is:
- A. 4
  - B. 5
  - C. 6
  - D. 8
72. A rational number can be written in the form:
- A.  $p/q$  where  $q$  is not zero
  - B. only root form
  - C. only decimal non-terminating
  - D.  $\pi$  form only
73. The perimeter of a square of side 5 cm is:
- A. 10 cm
  - B. 20 cm
  - C. 25 cm
  - D. 30 cm
74. The common difference of AP 2, 5, 8, 11 is:
- A. 2
  - B. 3
  - C. 5
  - D. 8
75. If  $x = 2$ , value of  $x^2 + 3x$  is:
- A. 8
  - B. 10
  - C. 12
  - D. 14
76. The value of 0 factorial is:
- A. 0
  - B. 1
  - C. undefined
  - D. 10
77. A chord passing through the centre of a circle is called:
- A. radius
  - B. diameter
  - C. arc
  - D. sector
78. If  $a:b = 2:3$  and  $b=15$ , then  $a$  is:
- A. 5
  - B. 10
  - C. 12
  - D. 20
79. The solution of  $x - 4 = 0$  is:
- A. -4

- B. 0
- C. 4
- D. 8

80. The probability of an impossible event is:

- A. 0
- B.  $\frac{1}{2}$
- C. 1
- D. 2

### General Knowledge (5 questions)

81. The capital of India is:

- A. Mumbai
- B. New Delhi
- C. Kolkata
- D. Chennai

82. The Constitution of India came into effect on:

- A. 15 Aug 1947
- B. 26 Jan 1950
- C. 2 Oct 1947
- D. 26 Nov 1949

83. The national animal of India is:

- A. Lion
- B. Tiger
- C. Elephant
- D. Peacock

84. The largest planet in the solar system is:

- A. Earth
- B. Mars
- C. Jupiter
- D. Venus

85. The currency of India is:

- A. Dollar
- B. Rupee
- C. Yen
- D. Pound

### English (5 questions)

86. Choose the correct article: He is \_\_\_\_ honest boy.

- A. a
- B. an
- C. the
- D. no article

87. Choose the synonym of "rapid":

- A. slow
- B. quick
- C. weak
- D. late

88. Choose the correct plural of "child":

- A. childs
- B. childes
- C. children
- D. childrens

89. Fill in the blank: She \_\_\_\_ to school every day.

- A. go
- B. goes
- C. gone
- D. going

90. Choose the antonym of "ancient":

- A. old
- B. modern
- C. historic
- D. early

### Indo-Islamic Culture (10 questions)

91. The Quran is the holy book of:

- A. Islam
- B. Buddhism
- C. Sikhism
- D. Jainism

92. The city of Makkah is located in:

- A. India
- B. Saudi Arabia
- C. Egypt
- D. Turkey

93. The first month of the Islamic calendar is:

- A. Ramadan
- B. Muharram
- C. Shawwal
- D. Safar

94. The month of fasting in Islam is:

- A. Muharram
- B. Ramadan
- C. Rajab
- D. Rabi al-Awwal

95. The migration of Prophet Muhammad from Makkah to Madinah is called:

- A. Hijrah
- B. Zakat
- C. Hajj
- D. Salah

96. Zakat is related to:

- A. charity/obligatory alms
- B. fasting only
- C. pilgrimage only
- D. language

97. Hajj is performed in and around:

- A. Delhi
- B. Makkah
- C. Cairo
- D. Istanbul

98. The Islamic calendar is based on:

- A. solar year
- B. lunar months
- C. weekly cycle only
- D. seasonal cycle

99. Salah refers to:

- A. prayer
- B. trade
- C. journey
- D. book writing

100. The Arabic word "ilm" generally means:

- A. knowledge
- B. food
- C. water
- D. market