



ALIGARH MUSLIM
UNIVERSITY



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2014-15	Paper Code	001	Question Booklet Number	03752
PARTICULARS TO BE FILLED IN BY THE CANDIDATE				
Name of the Candidate				
Roll Number				
Centre Code		Date of the Test		
Signature of the Candidate				
For Invigilator : The candidate has completed all entries given above and in the relevant columns of the OMR Answer Sheet and his/her identity has been verified. <p style="text-align: right;">Signature with date</p>				

Time (Test Duration) : 02 hours

Maximum Marks : 100

INSTRUCTIONS

- * Complete all entries on the cover page and put your signature in the space provided.
- * Use only Ball Point Pen (black / blue) for making entries in the Question Booklet and the OMR Answer Sheet.
- * Candidates should also read carefully the instructions printed on the Admit Card and/or OMR Answer Sheet before attempting to answer the questions.
- * The Test Booklet consists of 16 pages (including cover sheet) and contains 100 questions. Count the number of pages and questions before attempting the questions. Discrepancy, if any, must immediately be brought to the notice of the Invigilator.

1. The time (Test duration) as specified above shall be reckoned from the moment of distribution of the Question Booklets.
2. Blank space in the Question Booklet may be used for rough work.
3. Each question is followed by four alternative answers. Select only one answer, which you consider as the most appropriate. Shade the relevant circle against the corresponding question number on the OMR Answer Sheet.
4. Selecting more than one answer for a question, even if one of the selected answers is correct, would result in its being treated as an incorrect answer. However, there shall be no negative marking for incorrect answers.
5. Answers should ONLY be marked on the OMR Answer Sheet. No answer should be written on the Question Booklet.
6. After the Admission Test is over the original OMR Answer Sheet shall be collected by the Invigilator while the candidate can take with him/her the carbonless copy of the OMR Answer Sheet and the Question Booklet.





1. صفت بتائیے۔
(a) جاہ
(b) دورتا
(c) پڑھا
(d) خوبصورت
2. پچھلے ہوئے الفاظ میں سے مذکر لفظ پر نشان لگائیے:
(a) زمین
(b) کتاب
(c) آدم
(d) خوا
3. عیاش کے معنی بتائیے؟
(a) ظاہر
(b) کھلا ہوا
(c) صاف
(d) گنڈا
4. حکام لفظ کا واحد لکھیے۔
(a) حکیم
(b) حکماء
(c) حاکم
(d) حکم
5. ڈاکٹر علاسا قابل اردو کے بہت بڑے تھے:
(a) افسانہ نگار
(b) شاعر
(c) ناول نگار
(d) نثر نگار
6. "پائی" لفظ کی کیا ہے؟
(a) فعل
(b) حرف
(c) ذکر
(d) ضمیر
7. نشاط کا متضاد لفظ بتائیے:
(a) خوشی
(b) مسکراہٹ
(c) اچھالی
(d) غم
8. "آگ بگول ہونا" محاورے کا مطلب بتائیے:
(a) بہت ٹھنڈا ہونا
(b) دل جلنا
(c) آگ لگنا
(d) جل کر راکھ ہونا
9. شہر کی تعریف بتائیے:
(a) کام کا ہونا
(b) اسم کی طرح بولا جائے
(c) اسم کی بڑائی بتائے
(d) اسم کی بڑائی بتائے
10. سے
(a)
(b) بار بار آنے والے لفظ
(c)
(d) مترادف لفظ

11. ہندی भाषा की लिपि है
(a) गुरुमुखी
(b) देवनागरी
(c) फारसी
(d) अरबी
12. "उसको पत्र लिखा गया", इस वाक्य में 'उसको' है
(a) उत्तम पुरुष
(b) मध्यम पुरुष
(c) अन्य पुरुष
(d) कोई नहीं
13. "प्रेमचन्द" का नाम क्या था?
(a) धनपत राय
(b) गणपत राय
(c) समपत राय
(d) गणपत राज
14. "मेया कबहि बढेगी चोटी" पद के कवि हैं
(a) सूर
(b) कबीर
(c) रहीम
(d) तुलसी
15. निम्नलिखित शब्दों से जातिवाचक संज्ञा चुनिए
(a) प्रेम
(b) अपनापन
(c) हिमालय
(d) अध्यापक
16. "कनक" शब्द का अर्थ निम्नलिखित में से कौन सा नहीं है?
(a) धत्ता
(b) गेहूँ
(c) धान
(d) सोना
17. "किताब" शब्द किस भाषा का है?
(a) फारसी
(b) अरबी
(c) हिन्दी
(d) तुर्की
18. "सावधान" होने के लिए सही मुहावरा होगा
(a) आँखें बिलोना
(b) आँख मारना
(c) आँखें खुलना
(d) आँखें चार होना
19. "बंधन" शब्द का विलोम कौन सा है
(a) अवैलन
(b) परिबंधन
(c) मुक्त
(d) अटूट बंधन
20. "बुढ़िया थक कर बैठ गई" वाक्य में क्रिया-भेद बताइए
(a) अकर्मक
(b) सकर्मक
(c) द्विकर्मक
(d) नकारमक

21. Please my apology

- (a) except (b) assept (c) accept (d) expect

22. The verb form of the noun "Dependence" is

- (a) Deepen (b) Depend (c) Dependable (d) Dependr

23. Choose the adverb from the following

- (a) Walk (b) Good (c) Fast (d) Badly

24. What does the phrase, "to be up and doing" means?

- (a) to be actively engaged (b) to recover from illness
(c) to be lazy (d) to progress satisfactorily

25. Which part of the speech the underlined word is?

All the people cheered

- (a) Noun (b) Pronoun (c) Adjective (d) Adverb

26. The farmer is working his field

- (a) at (b) in (c) on (d) over

27. The active voice of "Who teaches you English?" is

- (a) By whom you are taught English (b) By whom English is taught to you
(c) Who taught you English (d) Whom do you taught English by

28. The indirect narration of "He said to me, do you know me"?

- (a) He asked me whether I knew him (b) He enquired if I know him
(c) He asked me that if I knew him (d) He said to me that if I knew him

29. Select the correct antonym of "Alacrity"

- (a) will-power (b) bravery (c) useful (d) hesitant

30. Choose the correct feminine gender of the given word "Monk"

- (a) Nicce (b) Queen (c) Nun (d) Mistress

31. The distance of Alpha Centauri is about

- (a) 8 light years (b) 4.3 light years
(c) 150 million km (d) 4.3 light minutes

32. CFLs contain a toxic material by the name of

- (a) Carbon (b) Sulphur (c) Argon (d) Mercury

33. Some students were ordered to arrange the forces due to friction in a decreasing order. Choose the correct arrangement

- (a) Sliding, Static, Rolling (b) Static, Sliding, Rolling
(c) Rolling, Sliding, Static (d) Rolling, Static, Sliding

34. The process of loosening the soil for improving air circulation is called

- (a) Logging (b) Thrashing (c) Winnowing (d) Tilling

35. Proplastids are found in

- (a) plant cells (b) non-photosynthetic bacterial cells
(c) animal cells (d) both in plant and animal cells

36. Hydrogen gas, obtained from natural gas, is used in

- (a) Automobile fuels (b) Paints
(c) Stoves (d) Fertilizers

37. PVC is an example of

- (a) Plastics (b) Thermal-plastics
(c) Thermoplastics (d) Thermo-setting plastics

38. The copper vessels in a long run get greenish deposits of

- (a) $\text{CuO} + \text{Cu(OH)}_2$ (b) CuCO_3
(c) Cu_2O (d) $\text{Cu(OH)}_2 + \text{CuCO}_3$

39. Plant and animal species found exclusively in a confined area are termed as

- (a) Flora and Fauna (b) Endemic species
(c) Endangered species (d) Threatened species

40. 2, 4-dichlorophenoxy acetic acid is used as a

- (a) Herbicide (b) Insecticide
(c) Pesticide (d) Weedicide

41. Which of the following disease is caused by bacteria?

- (a) Polio (b) Typhoid (c) Malaria (d) Hepatitis

42. Which of the following is a soft metal?

- (a) Potassium (b) Zinc (c) Magnesium (d) Aluminium

43. 500 grams of coal on complete combustion produces 12,500 kilojoule of heat energy. The calorific value of coal will, therefore be

- (a) 25,000 kilojoule/kg (b) 1.0 lakh kilojoule/kg
(c) 12,5000 kilojoule/kg (d) 1000 kilojoule/kg

44. The gas that generates acid rain is

- (a) nitrogen (b) carbon dioxide
(c) carbon mono-oxide (d) sulphur dioxide

45. The endocrine gland that is located on human kidney is

- (a) Ovaries (b) Adrenals (c) Thyroid (d) Pituitary

46. The speed of light in air is about

- (a) 300,000 km/s (b) 300,000 m/s
(c) 3×10^{18} m/s (d) 1000 km/s

47. The loudness of sound, expressed in a unit, is termed as

- (a) hertz (b) decibel (c) light year (d) meter/s

48. A pendulum oscillates 60 times in 6 seconds. What will be its frequency?

- (a) 0.1 hertz (b) 360 hertz (c) 10 hertz (d) 60 hertz

49. Halley's comet will now be visible in the year

- (a) 2025 (b) 2020 (c) 2062 (d) 2015

50. The largest planet of the solar system is

- (a) Jupiter (b) Venus (c) Mars (d) Saturn

51. The association of Rhizobium bacteria in plants causes

- (a) Root disease (b) Fruit disease
(c) Nitrogen fixation (d) Reduction of nitrite

52. The light waves are similar in nature to that of

- (a) X-rays (b) Cathode rays (c) Anode rays (d) Infrared rays

53. A man is standing between two plane mirrors inclined at an angle of 60° . The number of images that he will be able to see is

- (a) Four (b) Three (c) Six (d) Five

54. The angle between geographical and magnetic meridian is known as

- (a) Angle of magnetic dip (b) Angle of declination
(c) Angle of deflection (d) Angle of meridian

55. The magnetism at the center of magnetic bar is

- (a) zero (b) maximum (c) minimum (d) medium

56. The cell, in human body, that changes its shape is

- (a) RBC (b) WBC (c) Muscle (d) Nerve

57. Rust of wheat is caused by

- (a) Bacteria (b) Insect (c) Fungi (d) Virus

58. Which component of the cell is responsible for the inheritance of the organism's characters?

- (a) Plastids (b) Vacuole (c) Mitochondria (d) Chromosomes

59. The most ductile metal is

- (a) Iron (b) Gold (c) Copper (d) Zinc

60. Identify the one that is not an example of fossil fuel

- (a) Coal (b) Wood (c) Petroleum (d) Natural gas

61. Ganga Action Plan was launched in the year

- (a) 1975 (b) 1995 (c) 1990 (d) 1985

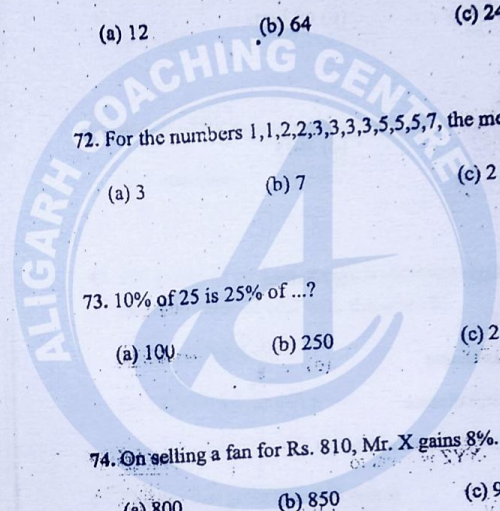
62. The frictional force exerted by fluids is called

- (a) pushing (b) dragging (c) rolling (d) sliding

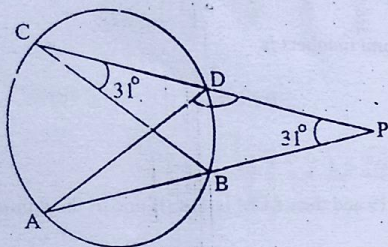
63. Naphthalene balls are prepared by using

- (a) carbon (b) coal gas (c) coke (d) coal tar

64. Which one of the following oxide will not change red litmus to blue?
- (a) Calcium (b) Sulphur (c) Sodium (d) Magnesium
65. Fertility of rice-field can be improved by the association of
- (a) Rhizobium (b) Blue-green algae (c) Protozoa (d) Clostridium
66. The value of $3 - (-4)$ is
- (a) 7 (b) 5 (c) 1 (d) -1
67. A rational number between $-5/7$ and $3/4$ is
- (a) $-5/6$ (b) -1 (c) $1/2$ (d) $5/4$
68. Which of the following is a reflex angle?
- (a) 180° (b) 90° (c) 135° (d) 270°
69. Which of the following number is not a perfect square?
- (a) 961 (b) 121 (c) 125 (d) 256
70. If $(a+b)=10$ and $ab = 21$, then $a^2 + b^2 = ?$
- (a) 58 (b) 126 (c) 82 (d) 256
71. One-third of a number is greater than the one-fourth of the number by 2. The number is
- (a) 12 (b) 64 (c) 24 (d) 102
72. For the numbers 1, 1, 2, 2, 3, 3, 3, 3, 5, 5, 5, 7, the median is
- (a) 3 (b) 7 (c) 2 (d) 1
73. 10% of 25 is 25% of ...?
- (a) 100 (b) 250 (c) 25 (d) 10
74. On selling a fan for Rs. 810, Mr. X gains 8%. For how much did he purchase the fan?
- (a) 800 (b) 850 (c) 900 (d) 750
75. How many diagonals are there in a pentagon?
- (a) 6 (b) 5 (c) 3 (d) 4
76. Cube root of $(-8) \times (-343) \times (125)$ is?
- (a) -70 (b) 35 (c) -35 (d) 70
77. The area of a circular ring can be presented in square units as if "R" and "r" are radii of the ring
- (a) $\pi (R-r^2)$ (b) $\pi (R^2-r)$ (c) $\pi (R^2-r^2)$ (d) $2\pi (R-r)$



78. In the given figure, $\angle ADP$ is equal to



- (a) 118° (b) 62° (c) 31° (d) 124°

79. If $X=2$, $Y=1$ and $Z=-3$ then $X^3 + Y^3 + Z^3 - 3XYZ$ is equal to

- (a) 6 (b) 2 (c) 0 (d) 8

80. The number of diagonals in a polygon of n -sides is given by

- (a) $[n(n+1)/2] - n$ (b) $[n(n-1)/2] - n$
 (c) $[n(n-1)/2] + n$ (d) $[n(n+1)/2] + n$

81. The angle which exceeds its complement by 20 is

- (a) 45° (b) 55° (c) 70° (d) 110°

82. What is the value of 0.00007 in standard form?

- (a) 7×10^{-4} (b) 7×10^4 (c) 7×10^5 (d) 7×10^{-5}

83. What is the height of cuboid whose volume is 275 cm^3 and base area is 25 cm^2 ?

- (a) 11 (b) 10 (c) 50 (d) 25

84. What is the relation between number of faces (F), number of edges (E) and number of vertices (V) of a polyhedron

- (a) $F+E+V=2$ (b) $F-E+V=2$ (c) $F+2 = E+V$ (d) $E+F = V+2$

85. By joining the points (0, 0), (1, 1) and (2, 2) we get

- (a) a curved line (b) a circle (c) a triangle (d) a straight line

86. By what numbers should $(-20)^{-1}$ be divided so that this quotient is $(-5)^{-1}$

- (a) $1/4$ (b) 4 (c) $1/5$ (d) 5

87. When we square any whole number then which one of the following digit should not come out at unit's place?

- (a) 2 (b) 4 (c) 9 (d) 1

88. A circular wire of radius 42 cm is cut and bent it into the form of rectangle whose sides are in the ratio of 6:5, the smaller side of rectangle is

- (a) 60 cm (b) 72 cm (c) 30 cm (d) 132 cm

89. A closed cylindrical tank of radius 7 m and height 3 m is made from a sheet of metal. The sheet required is

- (a) 550 m^2 (b) 740 m^2 (c) 500 m^2 (d) 440 m^2



90. The scale of the map is given as 1:3000000. Two cities are 4 cm apart on the map then actual distance between them is

- (a) 1100 km (b) 1300 km (c) 1000 km (d) 1200 km

91. Which rational number does not have its reciprocal?

- (a) 0 (b) 1 (c) -1 (d) 1/2

92. A dodecahedron is having 20 vertices and 30 edges, then the number of faces are

- (a) 14 (b) 8 (c) 12 (d) 10

93. The value of $[(25 \times 2 \times p^{-3}) / (5^{-2} \times 10 \times p^{-7})]$ such that $p \neq 0$ is

- (a) $120 p^4$ (b) $125 p^4$ (c) $110 p^{-10}$ (d) $130 p^4$

94. The value of $(a-b)(a+b) + (b-c)(b+c) + (c-a)(c+a)$ is

- (a) $(a+b)$ (b) $(a-b)$ (c) 0 (d) $(c+a)$

95. The ratio of boys and girls in any class is 11:13. If 8 girls and 4 boys join the class, the ratio becomes 4:5. Find the number of students in the class

- (a) 108 (b) 120 (c) 96 (d) 240

96. $P=Q+50\%$ of Q . Find the ratio of P to Q

- (a) 1:1 (b) 3:2 (c) 1:2 (d) 2:1

97. The largest three digit number which is divisible by 6, 8 and 10 is

- (a) 999 (b) 900 (c) 990 (d) 960

98. The LCM of first seven natural numbers is

- (a) 840 (b) 420 (c) 168 (d) 84

99. The HCF of two numbers is 19 and their LCM is 114. If one of the numbers is 57, find the other numbers

- (a) 38 (b) 95 (c) 228 (d) 114

100. The average of the two numbers is 21. If any third number is added, then the average drops to 19

- (a) 18 (b) 21 (c) 19 (d) 15



ANSWER

URDU

1-d 2-c 3-a 4-c 5-b 6-c 7-d 8-a 9-b 10-c

HINDI

11-b 12-c 13-a 14-a 15-d 16-c 17-b 18-c 19-c 20-a

ENGLISH

21-c 22-b 23-d 24-a 25-c 26-c 27-a 28-b 29-d 30-c

SCIENCE

31-b 32-d 33-b 34-d 35-a 36-d 37-c 38-d 39-b 40-d

41-b 42-a 43-a 44-d 45-b 46-a 47-b 48-c 49-c 50-a

51-c 52-a 53-d 54-b 55-a 56-b 57-c 58-d 59-a 60-b

61-d 62-b 63-d 64-b 65-b

MATHEMATICS

