

FIITJEE ADMISSION TEST- 2019

for students of

Class 9

Paper 1

Time: 3 Hours (9:30 am – 12:30 pm)

Code	9000
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Maximum Marks: 210

Instructions:

Caution: Class, Paper, Code as given above MUST be correctly marked on the answer OMR sheet before attempting the paper. Wrong Class, Paper or Code will give wrong results.

1. You are advised to devote 60 Minutes on Section-I, 60 Minutes on Section-II and 60 Minutes on Section-III.
2. This Question paper consists of 3 sections. Marking scheme is given in table below:

Section	Subject	Question no.	Marking Scheme for each question	
			correct answer	wrong answer
SECTION – I	APTITUDE	1 to 30	+3	0
SECTION – II	PHYSICS (PART-A)	31 to 39	+2	0
	CHEMISTRY (PART-B)	40 to 48	+2	0
	MATHEMATICS (PART-C)	49 to 57	+2	0
	BIOLOGY (PART-D)	58 to 66	+2	0
SECTION – III	PHYSICS (PART-A)	67 to 78	+1	0
	CHEMISTRY (PART-B)	79 to 90	+1	0
	MATHEMATICS (PART-C)	91 to 102	+1	0
	BIOLOGY (PART-D)	103 to 114	+1	0

3. Answers have to be marked on the OMR sheet. The Question Paper contains blank spaces for your rough work. No additional sheets will be provided for rough work.
4. Blank papers, clip boards, log tables, slide rule, calculator, cellular phones, pagers and electronic devices, in any form, are not allowed.
5. **Before attempting paper write your OMR Answer Sheet No., Registration Number, Name and Test Centre** in the space provided at the bottom of this sheet.

Note: Please check this Question Paper contains all **114** questions in serial order. If not so, exchange for the correct Question Paper.

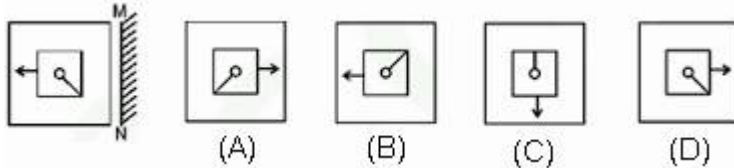
OMR Answer Sheet No. : _____
Registration Number : _____
Name of the Candidate : _____
Test Centre : _____

4. If '-' stands for division, '+' for multiplication, '÷' for subtraction and 'x' for addition, which one of the following equations is correct?
 (A) $18 \div 3 \times 2 + 8 - 6 = 10$ (B) $18 - 3 + 2 \times 8 \div 6 = 14$
 (C) $18 - 3 \div 2 \times 8 + 6 = 17$ (D) $18 \times 3 + 2 \div 8 - 6 = 15$

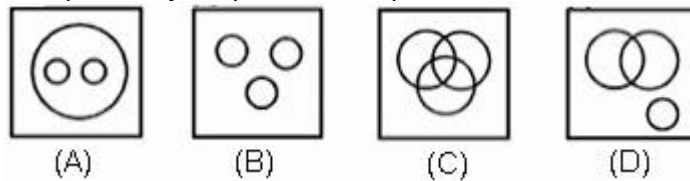
5. Which of the following interchange of signs would make the equation correct?
 $5 + 3 \times 8 - 12 \div 4 = 3$
 (A) - and ÷ (B) + and x
 (C) + and ÷ (D) + and -

6. Find the odd word from the given alternative.
 (A) Shimla (B) Ooty
 (C) Darjeeling (D) Agra

7. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?

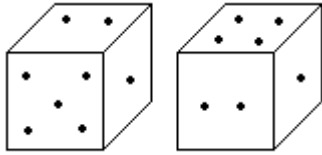


8. Identify the diagram that best represents the relationship among the given classes. Biosphere, Hydrosphere, Atmosphere



Space for Rough Work

9. Two positions of dice are shown below. How many points will appear on the opposite to the face containing 5 points?



- (A) 3
(B) 1
(C) 2
(D) 4
10. Select the correct combination of mathematical signs to replace * signs and to balance the equation.
 $48 * 4 * 6 * 3 * 30$
 (A) -, +, =, x
 (B) ÷, =, x, +
 (C) ÷, +, x, =
 (D) -, =, x, +
11. X is the husband of Y. W is the daughter of X. Z is the husband of W. N is the daughter of Z. What is the relationship of N to Y?
 (A) Cousin
 (B) Niece
 (C) Daughter
 (D) Grand daughter
12. Introducing a boy, a man says, "He is the son of the brother of my grandfather's son." How is the boy related to the man?
 (A) Brother
 (B) Grandfather
 (C) Nephew
 (D) Cousin
13. X walked 20 feet from A to B in the East direction. Then X turned to the right and walked 6 feet. Again X turned to the right and walked 28 feet. How far is X from A?
 (A) 28
 (B) 9
 (C) 10
 (D) 27

Space for Rough Work

14. Ankita travels 35 km towards the west, takes a right turn and travels 50 km more. Next, she takes another right turn and travels 35 km in that direction. How far is she now from her original position?
 (A) 75 km (B) 25 km
 (C) 50 km (D) 20 km
15. In the "PRELIMINARY" find out how many such pairs of letters are there in the given word each of which has as many letters between them in the word as in the English alphabet.
 (A) one (B) two
 (C) three (D) four
16. Arrange the following words as per the order in the dictionary:
 1. RESIGN
 2. REPAIR
 3. RESIDUE
 4. RESEARCH
 5. RESCUE
 (A) 4 5 3 1 2 (B) 2 5 4 3 1
 (C) 2 5 4 1 3 (D) 5 4 3 1 2
17. If the letters in the word INTERNATIONAL are rearranged in the alphabetical order, which one will be in the middle in order after the rearrangement?
 (A) L (B) I
 (C) O (D) N
18. The positions of the first and the second digits in the number 7986032451 are interchanged. Similarly the positions of the third and fourth digits are interchanged and so on. Which of the following will be the fifth digit from the right end after the rearrangement?
 (A) 3 (B) 6
 (C) 4 (D) 0

Space for Rough Work

19. In a class of 60, where girls are twice that of boys, Kamal ranked seventeenth from the top. If there are 9 girls ahead of Kamal, how many boys are after him in rank?
 (A) 3 (B) 7
 (C) 12 (D) 23
20. Forty boys are standing in a row facing the North. Amit is eleventh from the left and Deepak is thirty-first from the right end of the row. How far will Shreya, who is third to the right of Amit in the row, be from Deepak?
 (A) 2nd (B) 3rd
 (C) 4th (D) 5th
21. Find the missing number from the alternatives.



- (A) 125 (B) 175
 (C) 225 (D) 250
22. The angle between the minute hand and the hour hand of a clock when the time is 8.30, is:
 (A) 80° (B) 75°
 (C) 60° (D) 105°
23. If FRIEND is coded as HTKGPF then REVEAL will be coded as:
 (A) TGXFCN (B) TGXNGC
 (C) TXGNCG (D) TGXGCM

Space for Rough Work

24. In a certain code language, "CUTE" is written as "9251" and "REST" is written as "4135". How is "RESCUE" written in that code language?
 (A) 413921 (B) 431291
 (C) 423911 (D) 413912
25. In the following question, two statements are given each followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.
 Statements:
 A. All tables are boxes.
 B. Some boxes are windows.
 Conclusions:
 I. Some tables are windows.
 II. All boxes are tables.
 III. No window is table.
 (A) None follows (B) Only either I or III follows
 (C) Only either II or III follows (D) Only I and II follow

Directions (Q.26 – Q.30): Read the following information carefully and answer the following questions.

A, B, C, D, E, F, G and H are sitting around a circular table. Only two of them are not facing the centre but sit opposite each other. G is the second to the right of A and third to the right of C. B is second to the left of C and fourth to the right of D. E is second to the right of H and is facing the centre. One of the persons who is facing outwards is an immediate neighbour of G and A both. D sits second to the right of C and is not an immediate neighbour of A.

26. Who among the following is an immediate neighbour of E?
 (A) C, B (B) A, F
 (C) B, H (D) G, D
27. Who among the following is second to the left of F?
 (A) B (B) E
 (C) G (D) D
28. Who among the following sits second to the right of C?
 (A) H (B) F
 (C) D (D) A
29. Who among the following are not facing the centre?
 (A) CA (B) CF
 (C) GF (D) EB
30. Who among the following is third to the left of B?
 (A) G (B) H
 (C) C (D) F

Space for Rough Work

Recommended Time: 60 Minutes for Section – II**Section – II****PHYSICS – (PART – A)**

This part contains 9 Multiple Choice Questions number 31 to 39. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.

31. What is the momentum of an object of mass m , moving with a velocity v ?
(A) $(mv)^2$ (B) mv^2
(C) $\frac{1}{2}mv^2$ (D) mv
32. Newton's second law of motion gives us a measure of
(A) force (B) inertia
(C) mass (D) acceleration
33. The S.I. unit of thrust is
(A) Newton (B) $N\ m^{-1}$
(C) $N\ m$ (D) Pascal
34. Fluids are
(A) solids and liquids (B) liquids and gases
(C) solids and gases (D) only liquids
35. An instrument commonly used in laboratory to produce a sound of some particular frequency is
(A) sonar (B) electric bell
(C) tuning fork (D) a stretched wire
36. Galileo's law of inertia is another name for Newton's law of motion
(A) first (B) third
(C) second (D) none of these
37. In which of the three mediums: air, water and steel, does sound travel the fastest?
(A) Air (B) Water
(C) Steel (D) None of these
38. Buoyant force exerted by different fluids on a given body is
(A) same (B) different
(C) zero (D) negligible
39. When a sound wave travels in air, the physical quantity which is transferred from one place to the other is
(A) mass (B) force
(C) momentum (D) energy

Space for Rough Work

CHEMISTRY – (PART – B)

This part contains **9 Multiple Choice Questions** number **40 to 48**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

40. The most abundant element in the universe is
(A) hydrogen (B) oxygen
(C) helium (D) carbon
41. The major raw materials for rayon is obtained from
(A) wood (B) coal
(C) petroleum (D) both coal and petroleum
42. The conversion of wood into coal occurs by a biochemical process that takes over millions of years and is known as
(A) catenation (B) carbonization
(C) pyrolysis (D) destructive distillation
43. Select the one that occurs in native form:
(A) Calcium (B) Aluminium
(C) Sodium (D) Gold
44. Main constituent of marsh gas is
(A) ethane (B) acetylene
(C) ethyne (D) methane
45. Which of the following contains isoprene units?
(A) Natural rubber (B) Nylon-6, 6
(C) Polyethylene (D) Dacron
46. Now-a-days coal gas is used as a source of
(A) light (B) heat
(C) electricity (D) steam
47. Which among the following alloys contain mercury as one of its constituents:
(A) Alnico (B) Solder
(C) Stainless steel (D) Zinc Amalgam
48. Correct full form of abbreviation PET is
(A) Polyethylene terephthalate (B) Polyethane terephthalate
(C) Polyacetylene terephthalate (D) None of these

Space for Rough Work

MATHEMATICS – (PART – C)

This part contains **9 Multiple Choice Questions** number **49 to 57**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

49. The value of $\sqrt{10 + \sqrt{25 + \sqrt{108 + \sqrt{154 + \sqrt{225}}}}}$ is
(A) 4 (B) 6
(C) 8 (D) 10
50. There are two positive numbers in the ratio 5:8. If the larger number exceeds the smaller by 15. Find the smaller number
(A) 25 (B) 30
(C) 20 (D) 35
51. $(x + 4)(x + 3) - (x - 4)(x - 3)$ is equal to
(A) $2x^2 - 14x + 24$ (B) $2x^2 + 14x - 24$
(C) $14x$ (D) 24
52. What number should be divided by $\sqrt{0.25}$ to give the result 25?
(A) 25 (B) 50
(C) 12.5 (D) 125
53. If $\frac{5}{7}$ of $49 + 20\%$ of $130 = x + 49$, then $x =$
(A) 10 (B) 12
(C) 16 (D) 18
-

Space for Rough Work

54. The least number which is a perfect square and has 540 as a factor.
(A) 8100 (B) 6400
(C) 4800 (D) 3600
55. Diagonals of a rhombus are 6 cm and 8 cm respectively. The side will be equal to (in cm)
(A) 3 (B) 4
(C) 5 (D) 6
56. Which of the following is not a pythagorean triplet?
(A) (8, 15, 17) (B) (12, 35, 38)
(C) (18, 80, 82) (D) (10, 24, 26)
57. A rational number between $-\frac{2}{3}$ and $\frac{1}{2}$ is
(A) $-\frac{3}{4}$ (B) $-\frac{1}{12}$
(C) $-\frac{5}{6}$ (D) $\frac{5}{6}$

Space for Rough Work

BIOLOGY – (PART – D)

This part contains **9 Multiple Choice Questions** number **58 to 66**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

58. Moat, Dhekli and Rahat are different
(A) Traditional methods of cultivation (B) Traditional methods of weeding
(C) Traditional methods of seed sowing (D) Traditional methods of irrigation
59. _____ is a biological preparation that provides active immunity to a particular disease.
(A) Vaccination (B) Antibiotics
(C) Medication (D) none of these
60. The Ranthambore National Park and wildlife sanctuary is located at
(A) Odisha (B) Rajasthan
(C) Madhya Pradesh (D) Uttar Pradesh
61. Which of the following is not true for fertilizers?
(A) They increase the yield
(B) Their excessive use disturbs the balance of nutrients in soil
(C) They are generally used in small quantity
(D) They are environment friendly
62. Which one of the following agricultural implement is used for soil preparation?
(A) Sickle (B) Plough
(C) Harvester (D) None
63. Tuberculosis is caused by
(A) *Bacillus* (B) *Plasmodium*
(C) *Paramyxovirus* (D) *Mycobacterium tuberculi*
64. Food preservation ensures that the food lasts for a longer time without getting spoiled. Which of the following methods is used to preserve the food materials?
(A) Drying and dehydration (B) Sterilization
(C) Saltation (D) All of these
65. The conversion of Ammonia (NH_3) to Nitrite (NO_2^-) and then to Nitrates (NO_3^-) is called—
(A) Nitrification (B) Denitrification
(C) Deamination (D) Nitrogen fixation
66. Which of these is used to store grains on a large scale?
(A) Gunny bags (B) Silos
(C) Containers (D) none of these

Space for Rough Work

Recommended Time: 60 Minutes for Section – III**Section – III****PHYSICS – (PART – A)**

This part contains 12 Multiple Choice Questions number 67 to 78. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.

67. The forces of action and reaction are
(A) always equal only (B) always equal and opposite
(C) always equal but in same direction (D) always unequal and opposite
68. The inertia of an object tends to cause the object
(A) to increase its speed
(B) to decrease its speed
(C) to resist any change in its state of rest or motion
(D) to decelerate due to friction
69. A beaker is filled with a liquid of density ρ upto a height h . If the beaker is at rest, the mean pressure on the walls is
(A) 0 (B) $h \rho g$
(C) $h \rho g/2$ (D) $2 h \rho g$
70. Which of the following gas is the densest of all?
(A) Air (B) Chlorine
(C) Ozone (D) Argon
71. A passenger in a moving train tosses a coin which falls behind him. It means that motion of the train is
(A) accelerated (B) uniform
(C) retarded (D) along circular tracks

Space for Rough Work

72. When each side of a cuboid is doubled, its volume becomes
(A) two times (B) four times
(C) eight times (D) sixteen times
73. The construction of a submarine is based on
(A) Archimedes principle (B) Bernoulli's principle
(C) Pascal's law (D) Newton's law
74. Rocket works on the principle of conservation of
(A) mass (B) energy
(C) momentum (D) velocity
75. A body floats in a liquid if the buoyant force is
(A) zero (B) less than its weight
(C) equal to its weight (D) none of these
76. The force of friction (F) is equal to _____. (where μ = coefficient of friction and R = normal reaction)
(A) $\mu R/2$ (B) μR
(C) $2\mu R$ (D) $\mu R/3$
77. The speed of sound in a certain medium is 960 m/s. If 3600 waves pass over a certain point in 1 minute, the wavelength is
(A) 2 m (B) 8 m
(C) 4 m (D) 16 m
78. A source of frequency 500 Hz emits waves of wavelength 0.2 m. How long does it take to travel 300 m?
(A) 70 s (B) 60 s
(C) 12 s (D) 3 s

Space for Rough Work

CHEMISTRY – (PART – B)

This part contains **12 Multiple Choice Questions** number **79 to 90**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

79. Which of the following is a step-growth polymer?
(A) Styrene (B) Nylon-6, 6
(C) Teflon (D) Rubber
80. What is the percentage of gold in a 22 carat gold bar?
(A) 75.6% (B) 91.6%
(C) 82.6% (D) 66.6%
81. The non-combustible element of producer gas is
(A) CO (B) N₂
(C) H₂ (D) H₂O
82. Coal is mainly carbon, also having some other elements like
(A) oxygen, hydrogen, nitrogen and Sulphur
(B) chlorine, nitrogen, sulphur and helium
(C) sulphur, phosphorus, iodine and oxygen
(D) bromine, nitrogen, phosphorus and hydrogen
83. For vulcanization of rubber we use which one of the following non-metal?
(A) Sulphur (B) Phosphorus
(C) Chlorine (D) Carbon
84. Caprolactam is the monomeric unit of which polymer?
(A) Nylon 6,6 (B) Nylon-2,6
(C) Nylon 6 (D) None of these

Space for Rough Work

85. The gas which is present in the coal mines and is the cause of explosion in coal mines is
 (A) methane (B) carbon monoxide
 (C) hydrogen (D) carbon dioxide
86. Artificial silk is a modified
 (A) polyester (B) polyamide
 (C) polysaccharide (D) polythene
87. Study the following equations and mark the correct option.
 $2A + 2B \longrightarrow 2AOH + H_2$
 $S + O_2 \longrightarrow C$
 $C + B \longrightarrow D$
- | | | | | | | | | | |
|-----|----------|------------------|-----------------|--------------------------------|-----|----------|------------------|-----------------|--------------------------------|
| | A | B | C | D | | A | B | C | D |
| (A) | Na | H ₂ O | SO ₂ | H ₂ SO ₃ | (B) | Na | H ₂ O | SO ₂ | H ₂ SO ₄ |
| (C) | K | H ₂ O | SO ₂ | H ₂ SO ₄ | (D) | K | H ₂ O | SO ₃ | H ₂ SO ₃ |
88. We can use coke
 (A) as an oxidizing agent (B) as a reducing agent
 (C) in printers ink (D) as electrode
89. Which of these elements is used as an antiseptic in medicine?
 (A) Carbon (B) Oxygen
 (C) Nitrogen (D) Iodine
90. Match the following:
- | | | | |
|-----------------|------------------------------------|-------------------|------------------------------------|
| Column-I | | Column -II | |
| (P) | Raincoats | (1) | Styrofoam |
| (Q) | Plugs and switches | (2) | Bakelite |
| (R) | Bags for storage | (3) | Polythene |
| (S) | Thermocol | (4) | PVC |
| (A) | (P)→(4), (Q)→(2), (R)→(3), (S)→(1) | (B) | (P)→(4), (Q)→(3), (R)→(2), (S)→(1) |
| (C) | (P)→(1), (Q)→(2), (R)→(3), (S)→(4) | (D) | (P)→(4), (Q)→(2), (R)→(1), (S)→(3) |

Space for Rough Work

MATHEMATICS – (PART – C)

This part contains 12 Multiple Choice Questions number 91 to 102. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.

91. What is the least number of four digits, when increased by 7, divisible by 35, 48 & 56
 (A) 1480 (B) 1473
 (C) 1487 (D) 1673
92. If each angle of a regular polygon is 135° . How many sides does it have.
 (A) 8 (B) 5
 (C) 6 (D) 7
93. If p is the probability of an event, then
 (A) $0 < p$ (B) $p > 1$
 (C) $0 < p < 1$ (D) $0 \leq p \leq 1$
94. The number of revolutions a wheel of diameter 40 cm makes in traveling a distance of 176 m is equal to
 (A) 140 (B) 150
 (C) 160 (D) 166
95. If $a^2 - b^2 = 36$ and $a + b = 4$, then $(a - b)^2 = \frac{\quad}{\quad}$
 (A) 36 (B) 9
 (C) 81 (D) 44
96. What is the percentage of least number in the greatest number if $\frac{3}{5}, \frac{9}{5}, \frac{1}{5}, \frac{7}{5}$ are arranged in ascending order?
 (A) $11\frac{1}{9}\%$ (B) 10%
 (C) 20% (D) 25%

Space for Rough Work

97. The value of $0.\overline{23} + 0.\overline{22}$ is
 (A) $0.\overline{45}$ (B) $0.\overline{43}$
 (C) $0.4\overline{5}$ (D) $0.4\overline{5}$
98. If $x + \sqrt{15} = 4$ then $x + \frac{1}{x} = ?$
 (A) 2 (B) 4
 (C) 8 (D) 1
99. If median and mean of same data are 6 and 4 respectively then mode =
 (A) 6 (B) 7
 (C) 9 (D) 10
100. $P(x) = 2x$ and $Q(x) = 8x^2$ then LCM of $p(x)$ and $q(x)$ is
 (A) $16x^3$ (B) $16x^2$
 (C) $8x^3$ (D) $8x^2$
101. The multiplicative inverse of $(x+1) + \frac{1}{(x-1)}$ is
 (A) $\frac{1}{(x+1)} + (x-1)$ (B) $(x-1) - \frac{1}{(x+1)}$
 (C) $\frac{x-1}{x^2}$ (D) $\frac{x+1}{x^2}$
102. ABCD is a rhombus such that $\angle ACB = 40^\circ$. Then $\angle ADB$ is
 (A) 40° (B) 45°
 (C) 50° (D) 60°

Space for Rough Work

BIOLOGY – (PART – D)

This part contains 12 Multiple Choice Questions number 103 to 114. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

103. Cod liver oil from fish is rich in which of the following vitamin?
(A) Vitamin B₁₀ (B) Vitamin C
(C) Vitamin D (D) none of the above
104. Amount of nitrogen (N₂) in the atmosphere is:-
(A) 58% (B) 68%
(C) 78% (D) 88%
105. Scientist who discovered fermentation was
(A) Alexander Fleming (B) Louis Pasteur
(C) John Mendel (D) Edward Jenner
106. The place meant for conservation of biodiversity in their natural habitat are
(i) Zoological garden (ii) Botanical garden
(iii) Wildlife Sanctuary (iv) National Park
(A) (i) & (ii) (B) (ii) & (iii)
(C) (iii) & (iv) (D) (i) & (iv)
107. Combines are used for:-
(A) Sowing of seeds (B) Harvesting the crop
(C) Threshing (D) Harvesting and threshing both
108. Mustard is Rabi crop, whereas _____ is kharif crop.
(A) Barley (B) Cotton
(C) Gram (D) Pea
109. Plant disease citrus canker is caused by
(A) Virus (B) Fungi
(C) Bacteria (D) none of these

Space for Rough Work

110. Which of the following is not a fungi?
(A) *Paramecium* (B) Bread mould
(C) *Penicillium* (D) *Aspergillus*
111. The species which are at the verge of the extinction are
(A) Endemic (B) Extinct
(C) Endangered (D) none of these
112. Conservation within the natural habitat is known as—
(A) In situ conservation (B) Ex situ conservation
(C) In vivo conservation (D) Ex vivo conservation
113. *Rhizobium* (a bacteria) which fixes atmospheric nitrogen are found in nodules growing in
(A) roots of leguminous plants (B) leaves of leguminous plants
(C) stem of leguminous plants (D) all of the above
114. The weed which grows along with every crop is:
(A) *Amaranthus* (B) Wheat
(C) Bazra (D) Both (A) & (B)

Space for Rough Work

FIITJEE ADMISSION TEST

CLASS – IX (PAPER – 1) ANSWERS

1. B	2. D	3. A	4. B
5. A	6. D	7. A	8. A
9. D	10. C	11. D	12. D
13. C	14. C	15. C	16. B
17. D	18. D	19. C	20. C
21. C	22. B	23. D	24. A
25. B	26. A	27. D	28. C
29. B	30. B	31. D	32. A
33. A	34. B	35. C	36. A
37. C	38. B	39. D	40. A
41. A	42. B	43. D	44. D
45. A	46. B	47. D	48. A
49. A	50. A	51. C	52. C
53. B	54. A	55. C	56. B
57. B	58. D	59. A	60. B
61. D	62. B	63. D	64. D
65. A	66. B	67. B	68. C
69. C	70. B	71. A	72. C
73. A	74. C	75. C	76. B
77. D	78. D	79. B	80. B
81. B	82. A	83. A	84. C
85. A	86. C	87. A	88. B
89. D	90. A	91. D	92. A
93. D	94. A	95. C	96. A
97. A	98. C	99. D	100. D
101. C	102. C	103. C	104. C
105. B	106. C	107. D	108. B
109. C	110. A	111. C	112. A
113. A	114. A		