B.ED ARTS 2023

- ● E-BOOK- PDF
- ● 6,000 MCQ
- ● FULL TEST- 4
- ● EXPLANATION

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B.ED SCI. 2023

- ● E-BOOK- PDF
- ● 6,000 MCQ
- EXPLANATION

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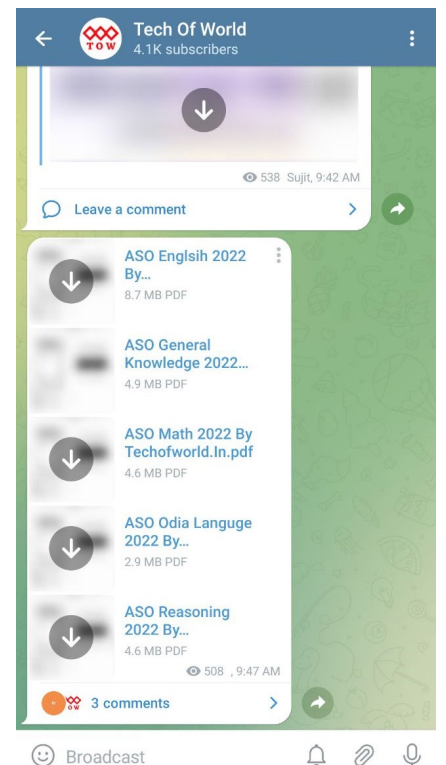
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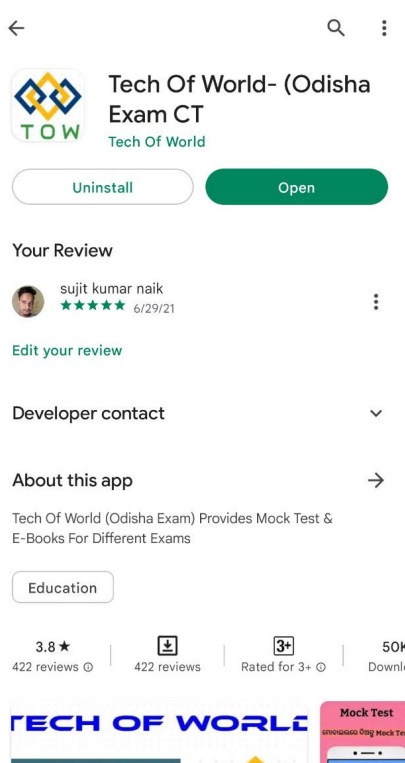
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Section 1 - PaperI-English Language

Passage Questions (1-5)

Read the passage and answer the questions that follow:

No one can say 'He jests at scars who never felt a wound', for I have never for one moment been in a state of mind to which even the imagination of serious pain was less than intolerable. If any man is safe from the danger of underestimating this adversary, I am that man. I must add, too, that the only purpose of the book is to solve the intellectual problem raised by suffering; for the far higher task of teaching fortitude and patience I was never fool enough to suppose myself qualified, nor have I anything to offer my readers except my conviction that when pain is to be borne, a little courage helps more than much knowledge, a little human sympathy more than much courage, and the least tincture of the love of God more than all.

1) According to the passage , which of the following along with some other aspects helps when pain is to be borne?

A) Suffering
B) Bearing
C) Courage.
D) Calmness

2) What is the purpose of the book?

A) To encourage you to fight better and with greater grit.
B) To solve the intellectual problem raised by suffering.
C) To alleviate the problem of pain by adding new ideas.
D) To alleviate the suffering of those who feel a lot of pain.

3) What does the writer feel unqualified to write about?

A) Problem of pain
B) Fortitude and patience.
C) Courage and love.
D) Friendship.

4) Which is the best tincture in pain?

A) Patience and fortitude
B) Sympathy and love
C) Courage and sympathy
D) Love of God

5) The narrator has never for one moment been in a state of mind to imagine that

A) even the imagination of serious pain was less than intolerable
B) even the truth of imaginerys pain was less than tolerable
C) even courage can make serious pain less than tolerable
D) even the loss of serious pain would be less than intolerable

6) Fill in the blank with the correct option:

Out of _____ is out of mind. I have purchased a big _____ for construction of my bungalow.

A) sight, site
B) cite, sight
C) site, cite
D) cite, site

7) A person who gets up, arrives, or acts before the usual or expected time is called a/an

A) early bird
B) yearly bird
C) seasonal bird
D) sunny bird

8) Fill in the blank with correct prefix or suffix:

Soon after entering the hall, she _____posed herself between the guests.

A) extra
B) under
C) inter
D) intra

9) Which of the following words is correctly spelt?

A) eczeema
B) eczema
C) eczeama
D) eczima

10) Which of the following idiom means a misleadingly hopeful sign?

A) a necessary evil
B) break your neck to do something
C) win by a neck
D) a false dawn

Section 2 - PaperI-Education and General Awareness

11) Which of the following factors determine the sensitivity of an astronomical telescope?

A) Focal length of the objective lens
B) Diameter of the objective lens
C) Focal length of the eyepiece
D) Diameter of the eyepiece

12) Under which of the following conditions term of loksbha sabha can be extented by one year?

A) Proclamation of Emergency
B) Proclamation of the amendment of the constitution
C) Proclamation of Presdent rule in the state
D) None of the above

13) One of the major activities of the State Councils of Education Research and Training is-

A) teacher education
B) sanctioning aid to schools
C) centralising teacher education
D) monitoring school infrastructure

14) In the year 1902, which commission was appointed to enquire into the condition and prospects of the universities established in British India?

A) The Education Commission
B) The Indian Universities Commission
C) The University Grants Commission
D) The Universities Act

15) The India Early Childhood Education Impact Study (2017) was carried out by

A) Aligarh University
B) Asoka University
C) Delhi University
D) Ambedkar University

Section 3 - PaperI-Reasoning

16) Two tickets from city C to D and three tickets from city C to E cost ₹77 but three tickets from city C to D and two tickets from C to E cost ₹73. What are the ticket charges for cities D and E respectively from city C?

A) ₹15 and ₹17
B) ₹14 and ₹15
C) ₹16 and ₹15
D) ₹13 and ₹17

17) In a certain code language, LETTER is coded as 36 and SUBLETTER is coded as 81. How will LETTERS be coded in that code language?

A) 25
B) 36
C) 49
D) 64

18) In the following questions, mark:

1, if statement I alone is sufficient to answer the problem.

2, if statement II alone is sufficient to answer the problem.

3, if statements I and II both taken together are sufficient to answer the problem.

4, if statements I and II taken together are NOT sufficient to answer the problem.

What day is the fifteenth of a given month ?

I. The last day of the month is a Wednesday.

II. The third Saturday of the month is 18th.

A) 1
B) 2
C) 3
D) 4

19) In the following questions, mark:

1, if statement I alone is sufficient to answer the problem.

2, if statement II alone is sufficient to answer the problem.

3, if statements I and II both taken together are sufficient to answer the problem.

4, if statements I and II taken together are NOT sufficient to answer the problem.

Who is the youngest among A, B and C?

I. A is neither youngest nor eldest among the three.

II. B is eldest among the three.

A) 1
B) 2
C) 3
D) 4

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20) Santprasad walked 50 m towards North. Then she turned left and walked 25 m, then again she turned left and walked 40 m. Finally she turned right and continued to walk. In which direction was she walking finally?

A) East
B) West
C) North
D) South

Section 4 - PaperI-Teaching Aptitude

21) Which of the following is an important goal of MOOC?

A) Conduct student assessments
B) Ensure placements
C) Cater to diverse learners
D) Provide secondary education

22) Which of the following are the principles of classical conditioning theory proposed by Ivan Pavlov?

A)   Principle of acquisition, extinction, archimedes and generalisation
B)   Principle of acquisition, archimedes, spontaneous recovery and generalisation
C)   Principle of archimedes, extinction, spontaneous recovery and generalisation
D)   Principle of acquisition, extinction, spontaneous recovery and generalisation

23) Non-formal education does NOT include

A) Adult basic education
B) Gurukula pathashala education
C) Home education
D) Adult literacy education or school equivalency preparation

24) According to Piaget, what is the goal of the preoperational stage?

A) Child is able to think about hypothesis verification
B) Child is able to think symbolically
C) Child is able to think logically
D) Child is able to think about abstract concepts

25) What does SOLO stand for?

A) Structure of Operational Learning Outlet
B) Structure of Observed Learning Outcome
C) Secondary Operational Learning Outcome
D) Symmetrical Observed Learning Outcome

26) ZPD stands for _____.

A) Zone of Personal Difficulty
B) Zone of Proximal Development
C) Zone of Primary Disturbance
D) Zone of Primary Development

27) Which of the following instruments is used to measure Attention Span?

A) Periscope
B) Tachistoscope
C) Teliscope
D) Kaliedoscope

28) Gender Schema Theory says that _____.

A) gender schemas are biological and so cannot be changed by culture
B) gender schemas are culturally formed through cognitive construction
C) gender schemas are a political construct which have been developed for lobbying
D) gender schemas are created by class divides so are controlled by society

29) Community is an agency of which of the following forms of education?

A) Formal education
B) Government
C) Non - formal education
D) Informal education

30) Which of the following is a higher order mental process?

A) Thinking, Reasoning and Decision Making
B) Thinking, Generalisation and Memorisation
C) Thinking, Reasoning and Memorisation
D) Reasoning, Generalisation and Decision Making

Section 5 - PaperII-Physical Science

31) Which among the following is the CORRECT electronic configuration of Pd atom?

A) $[Kr]^{36}4d^9 5s^1$

B) $[Kr]^{36}4d^8 5s^2$

C) $[Kr]^{36}4d^{10} 5s^0$

D) $[Kr]^{36}4d^{10} 5s^1$

32) When Silver Iodide is heated with sunlight, it forms silver and Iodine, the colour of the iodine is

A) purple
B) green
C) red
D) blue

33) The resistance of a wire can be determined with greater accuracy using:

A) Ω's law
B) Series resistance method
C) Bridge method
D) Kirchhoff's voltage law

34) A person hears the sound of the explosion of a bomb after 5 s and another person hears the sound after 6 s. The ratio of minimum and maximum possible distance between the person is

A) 1:2
B) 1:4
C) 1:11
D) 5:6

35) Tyres are circular in shape because

A) they are easy to design
B) they require less material
C) rolling friction is less than sliding friction
D) it is easy to inflate circular tyres

36) Which among the following will be the ground state terms for a d^6 and d^3 atoms respectively?

A) $^4F_{3/2}$ and $^5D_4$

B) $^5D_4$ and $^4F_{3/2}$

C) $^5D_0$ and $^4F_{9/2}$

D) $^4F_{9/2}$ and $^5D_0$

37) Which among the following is the basicity order of different N containing molecules A, B & C? Given: CH_3NH_2 (A), pyridine (B) and CH_3CN (C).

A) A > B > C
B) B > A > C
C) C > B > A
D) A > C > B

38) The reaction $Fe_2O_3 + 2Al \rightarrow Al_2O_3 + 2Fe$ is an example for

A) Combination reaction
B) Double displacement reaction
C) Decomposition reaction
D) Displacement reaction

39) Which among the following product is formed when hydrogen burns in presence of oxygen?

A) Hydrogen gas is released
B) Water is released
C) H_2S is released
D) Both oxygen and water is released

40) The resistance of a hot tungsten filament is about 20 times the cold resistance. What will be the resistance of 200 W/200 V lamp when not in use?

A) 200 Ω
B) 20 Ω
C) 10 Ω
D) 100 Ω

41) An electron moving in a circular orbit of radius r makes n rotations per second. The magnetic field produced at the centre has magnitude

A) zero
B) $\mu ne/2\pi r$
C) $\mu ne/2r$
D) $\mu n^2 e/2r$

42) A ray of light is incident at an angle of 60° on the face of a prism having refracting angle 30°. The ray emerging out of the prism makes an angle 30° with the incident ray. The emergent ray is then

A) Perpendicular to the incident face
B) Perpendicular to the emergent face
C) Parallel to the incident face
D) Parallel to the emergent face

43) The image formed by a concave mirror is twice the size of the object. The focal length of the mirror is 20 cm. The distance of the object from the mirror is

A) 10 cm
B) 30 cm
C) 25 cm
D) 15 cm

44) When a boulder of mass 240 kg is placed on a iceberg floating in sea water, it is found that the iceberg just sinks. If the relative density of ice is 0.9 and that of sea water is 1.02, the mass of the iceberg is

A) 1800 kg
B) 120 kg
C) 240 kg
D) 480 kg

45) A piece of brass (alloy of copper and zinc) weighs 12.9 gm in air. When completely immersed in water, it weights 11.3 g. The specific gravity of copper and zinc are 8.9 and 7.1 respectively. The mass of copper contained in the alloy is

A) 1.6 g
B) 3.2 g
C) 7.6 g
D) 5.1 g

46) For a particle in a one dimensional box the ground state energy was found to be 4.72 x10^{-57} J. What will the energy difference between the 3rd and 4th energy levels?

A) 33.04 x 10^{-57} J
B) 42.48 x 10^{-57} J
C) 75.52 x 10^{-57} J
D) 52.41 x 10^{-57} J

47) The electrolytic decomposition of water gives H_2 and O_2 in the ratio of

A) 1:2 by volume
B) 2:1 by volume
C) 8:1 by mass
D) 1:2 by mass

48) A coil in the shape of an equilateral triangle of side 0.02 m is suspended from a vertex such that it is hanging in a vertical plane between the pole pieces of a permanent magnet producing a horizontal magnetic field of 50 mT. The couple acting on the coil when a current of 0.1 ampere is passed through it and the magnetic field is parallel to its plane will be

A) $\sqrt{3}$ x 10^{-7} Nm
B) $5\sqrt{3}$ x 10^{-7} Nm
C) 0 Nm
D) $5\sqrt{3}$ x 10^{-6} Nm

49) Two identical coherent sources placed on a diameter of a circle of radius R at a separation d(<<R) symmetrically about the centre of the circle. The sources emit identical wavelength λ each. The number of points on the circle with the maximum intensity is :

A) $(2d/λ) + 1$
B) $(4d/λ) + 2$
C) $(2d/λ) - 1$
D) $(4d/λ) - 2$

50) A block moving up an inclined plane of inclination 30 degrees with a velocity of 5 m/s stops after 0.5 s. If g = 10 m/s^2, then the approximate value of coefficient of friction is

A) 0.2
B) 0.4
C) 0.6
D) 0.8

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Section 6 - PaperII-Biological Science

51) Which among the following blood group is called as an universal donor?

A) A
B) B
C) AB
D) O

52) Which of the following organisms lack mitochondria?

A) Green algae
B) Blue-green algae
C) Yeast
D) Paramoecium

53) Which superclass of subphylum vertebrata do jawless vertebrates belong to?

A) Gnathostomata
B) Agnatha
C) Marsupials
D) Aves

54) Pyramids of energy is always upright because the flow of energy is

A) Unidirectional
B) Bidirectional
C) Multidirectional
D) Random

55) Which option refers to the depletion of top fertile soil because of water or wind?

A) Soil erosion
B) Leaching
C) Weathering of rocks
D) Siltation

56) The glomerular filtration rate of healthy individual is approximately

A) 75 ml/minute
B) 125 ml/minute
C) 175 ml/minute
D) 225 ml/minute

57) Asexual reproduction through gemmules is the characteristic feature of

A) Paramecium
B) Yeast
C) Chlamydomonas
D) Sponge

58) Read the following statements and choose the CORRECT option.

(i) Mitochondria is a semi-autonomous cell organelle.

(ii) Mitochondria has its own DNA and ribosomes.

A) (i) is TRUE and (ii) is TRUE
B) (i) is TRUE and (ii) is FALSE
C) (i) is FALSE and (ii) is TRUE
D) (i) is FALSE and (ii) is FALSE

59) The systematic arrangement of the chromosomes according to their size and shape is known as

A) Chromatography
B) ELISA
C) Karyotyping
D) Cloning

60) The scientific names for plants are based on certain standard principles and criteria which are provided in ICBN. What is the full form of ICBN?

A) International Collection for Botanical Nomenclature
B) International Council for Botanical Nomenclature
C) International Code for Botanical Nomenclature
D) International Code for Biological Nomenclature

61) The term gymnosperm is derived from two Greek words, gymnos and sperma. What do these words mean respectively?

A) Naked and seed
B) Seed and spores
C) Covered and seed
D) Flower and seed

62) The amount of dissolved oxygen needed by aerobic biological organisms to break down organic material present in a given water sample at certain temperature over a specific time period is called

A) Chemical Oxygen demand
B) Biochemical Oxygen demand
C) Electrochemical demand
D) Aero Hydrological demand

63) Thinning of egg shell is a effect in many species of predatory birds. This is due to

A) Increase in CO_2
B) Increase in BOD
C) Biomagnification
D) Toxicity of lead

64) The lower layer of the oceanic zone, where the penetration of light is NOT possible is usually known as

A) Photic Zone
B) Aphotic Zone
C) Disphotic Zone
D) Euphotic Zone

65) Ozone layer is a protective shield for Earth absorbing ultraviolet radiation from the sun and it is found in the upper part of atmosphere called "Stratosphere". Ozone thickness is usually measured in

A) Dobson Units
B) Femto Units
C) Nano Units
D) Pico Units

66) Select the odd one with respect to bundle sheath cell characteristic of C_4 plant as per Kranz anatomy.

A) Large number of chloroplast
B) Thick wall impervious to gaseous exchange
C) More intercellular space
D) Cell form several layers around the vascular bundles

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67) Match the following organelles in List I with their corresponding uses/functions in List II.

List I	List II
(a) Cilia	(i) Motility
(b) Centriole	(ii) Intracellular digestion
(c) Pili	(iii) Mating process
(d) Lysosomes	(iv) Spindle fibre formation

A) (a)-(ii), (b)-(iv), (c)-(iii), (d)-(i)
B) (a)-(i), (b)-(iv), (c)-(iii), (d)-(ii)
C) (a)-(iv), (b)-(ii), (c)-(i), (d)-(iii)
D) (a)-(ii), (b)-(iv), (c)-(i), (d)-(iii)

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68) Given below are some statements related to plants and their classification:

a. Gymnosperms are considered as cryptogamae.

b. Angiospermae are phanerogamae.

c. Pteridophytes are non vascular plants.

d. Algae reproduce usually by asexual mode.

Choose the option with all CORRECT statements:

A) a and b are correct
B) b and d are correct
C) c and d are correct
D) a and c are correct

69) Salinity of sea water in parts per thousand is

A) less than 5
B) between 30-35
C) between 10-15
D) more than 100

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70) The main objectives of The Earth Summit which was held in 1992 at Rio de Janeiro for convention on biodiversity were:

A)   Conservation of biological diversity and sustainable use of its components
B)   Conservation of biological diversity and protection as well as maintenance of ozone layer
C)   Control of green house gases and sustainable use of biodiversity
D)   Control the use of hazardous chemicals as well as conservation of biological diversity

Section 7 - PaperII-Mathematics

71) If the ratio of the length of the edges of two cubes X and Y is 3:1, then what is the ratio of the volumes of the cubes X and Y?

A) 3 : 1
B) 6 : 1
C) 9 : 1
D) 27 : 1

72) What are the roots of the quadratic equation $3x^2 - 14x + 15 = 0$?

A) 9 and 5
B) 3 and 5
C) 5/3 and 3
D) 2/3 and 5/3

73) The polynomial $f(x) = a_0 + a_1 x + ... + a_n x^n$, where $a_0, a_1, ... a_n$ are integers, is primitive polynomial if

A) $\gcd(a_0, ... a_n) = 0$
B) $\gcd(a_0, ... a_n) = 1$
C) $\gcd(a_0, ... a_n) = 2$
D) $\gcd(a_0, ... a_n) = prime$

74) If A = {a,b,c,d,e,f,1,2,3,4,5,6} and B = {2,4,6,8,10,12,b,d,f,h}, then A ∩ B =

A) {2,4,6,b,d,f}
B) {2,4,6,8,10}
C) {2,3,4,5,6,8}
D) {2,4,a,b,d,f}

75) If $log_2 8 = x$, then x =

A) 1
B) 2
C) 3
D) 4

76) The angle of elevation of a ladder leaning against a wall is 60 degrees and the foot of the ladder is 12.2 m away from the wall. What is the length of the ladder?

A) 6.1 m
B) 12.4 m
C) 24.4 m
D) 26.6 m

77) If the length of any 2 sides of a triangle are 3 and 8, then which of the following can be the length of the third side of the triangle?

i) 5

ii) 8

iii) 11

A) i only
B) ii only
C) i and ii only
D) ii and iii only

78) If a and b are the roots of the polynomial $x^2 - 5x + k$ such that $a - b = 1$, then what is the value of k?

A) 5
B) 12
C) 6
D) 10

79) Which os the following statement is correct?

A) A number is rational if and only if its square is rational.

B) An integer n is odd if and only if $n^2 + 2n$ is odd.
C) A number is irrational if and only if its square is irrational.
D) An integer n is odd if and only if n(n + 1) is even.

80) In a class of 180 students, 100 students have registered for JAVA and 120 students have registered for C++. If every student in the class has registered for atleast one of the two courses, then what is the number of students who have registered for both the courses?

A) 20
B) 30
C) 40
D) 50

81) The value of $\log_{1/3} 9\sqrt{3}$ is

A) 5/2
B) 2/5
C) -5/2
D) -2/5

82) What is the value of log 10 + log 30 + log 100 given that log 3 = 0.4771?

A) 3.4771
B) 2.9771
C) 2.4771
D) 4.4771

83) The angle of elevation of the top of a lighthouse of height 60 m, from two points on the ground on its opposite sides are 45 degrees and 60 degrees respectively. What is the distance between these two points? (√3=1.732)

A) 92.32 m
B) 94.64 m
C) 98.42 m
D) 108.64 m

84) A balloon leaves the earth at point A and rises vertically at uniform speed. At the end of 2 minutes, sabari finds the angular elevation of the balloon as 45 degrees. If the point at which sabari is standing is 150 m away from point A, then what is the speed of the balloon?

A) 1.25 m/s
B) 1.33 m/s
C) 1.5 m/s
D) 1.6 m/s

85) In the given figure, O is the centre of the circle. Length of arc BCD is 5π units and length of segment ED is 4 units. What is the area of the shaded region?
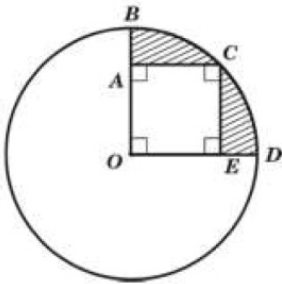
A) 25π - 36 sq. cm
B) 25π - 48 sq. cm
C) 25π - 60 sq. cm
D) 25π - 72 sq. cm

86) If $\alpha \ and \ \beta$ are the roots of the equation $x^2 - 3x - 18 = 0$, then what is the value of $\alpha^2 + \beta^2$?

A) 15
B) 30
C) 45
D) 60

87) What is the number of factors of 1200 which are perfect square?

A) 6
B) 8
C) 10
D) 12

88) A total of 55 athletes participated in an athletic meet. 24 won bronze medals, 36 won silver medals and 12 won gold medals. 10 won gold and silver, 15 won silver and bronze, 8 won gold and bronze. If 6 athletes won all the three medals, then how many of them won only gold medals?

A) 0
B) 2
C) 4
D) 8

89) If $\log_{10} 2 = 0.3010$, then what is the value of $\log_{10} 1\,600$?

A) 2.204
B) 5.204
C) 1.204
D) 3.204

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90) The angle of elevation of the top of a tower from the eye of an observer is 30 degrees. If the observer moves 40 m towards the tower, the angle of elevation of the top of the tower increases by 15 degrees. What is the height of the tower? (Assume √3=1.732)

A) 54.6 m
B) 52.2 m
C) 46.4 m
D) 42.6 m

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| Question Paper No: | 62222_24 |
| Answer Key | |

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