RRB ALP CBT I 17 Aug 2018 Shift 3 Official Paper (Previous Year Paper)

RRB Assistant Loco Pilot (ALP) • 2018 • 75 questions • 60 minutes • Answer key

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STAGE I (CBT I)

Q1. Two pipes, when working one at a time can fill a cistern in 2 hours and 3 hours, respectively while a third pipe can drain the cistern empty in 6 hours. All the three pipes were opened together when the cistern was 1/6 full. How long will it take for the cistern to be completely full?

(a) 1 hour
(b) 1 hour 20 minutes
(c) 1 hour 30 minutes
(d) 1 hour 15 minutes

Q2. Junko sold an item for Rs. 220 at a loss of 12%. By how much should she have raised the selling price above the cost price to make a profit of 10%?

(a) Rs. 25
(b) Rs. 55
(c) Rs. 44
(d) Rs. 48.40

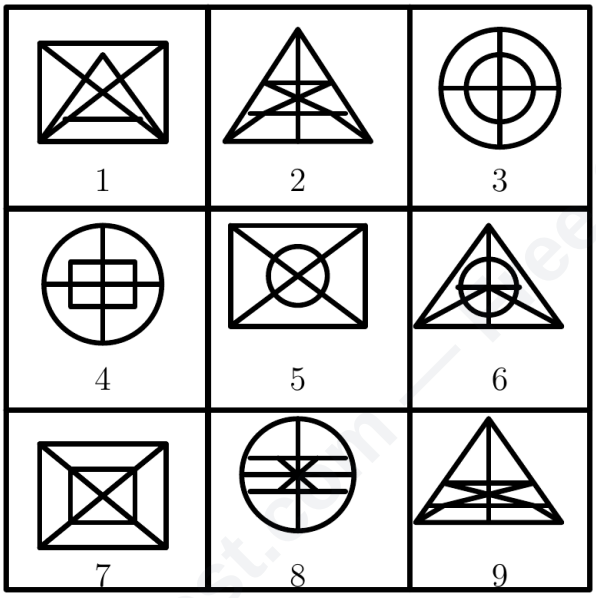
Q3. 1.004 - 0.4 is equal to:

(a) 0.604
(b) 1
(c) 0.006
(d) 0.640

Q4. Which of the following solutions is alkaline?

(a) [H+] = 1 × 10-4Mol/l
(b) [H+] < 1 × 10-7Mol/l
(c) [H+] > 1 × 10-7Mol/l
(d) [H+] = 1 × 10-7Mol/l

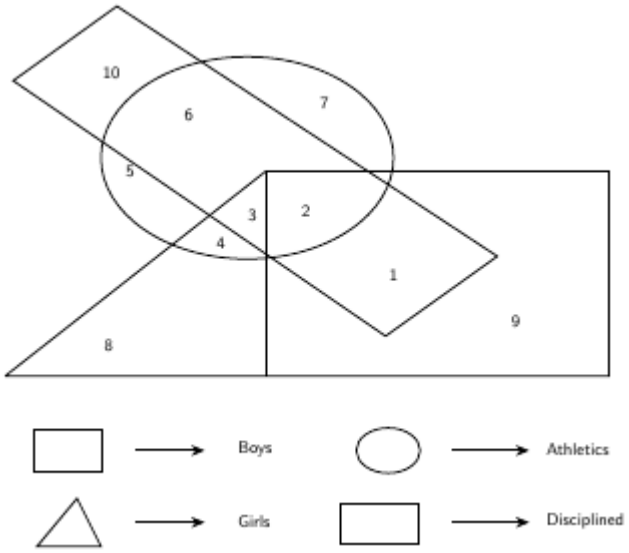
Q5.



If three groups could be formed using the given figures only once, these groups would be _____.

(a) (1, 8, 7), (2, 6, 9) and (4, 3, 5)
(b) (2, 5, 7), (1, 6, 9) and (4, 3, 8)
(c) (1, 5, 7), (2, 6, 8) and (4, 3, 9)
(d) (1, 5, 7), (2, 6, 9) and (4, 3, 8)

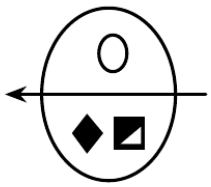
Q6. In the below Venn diagram which number space represents the girls who are athletes but not disciplined?



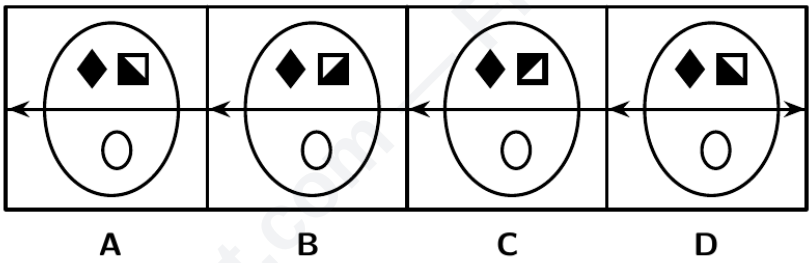
(a) 4
(b) 7
(c) 3
(d) 8

Q7. Choose the correct water image of the given problem figure from the answer figures.

Problem figure



Answer figure



(a) C
(b) D
(c) A
(d) B

Q8. Dwarfness can be controlled by treating plants with:
(a) Cytokinin
(b) Gibberellic acid
(c) Ethylene
(d) Auxin

Q9. Consider the argument and decide which of the given assumptions is/are implicit.
Argument:
The Supreme Court has decided that all rapists will be hanged till death.
Assumption:
1. Women will get protection.
2. The number of rapes cases can be reduced.
(a) Only assumption 1 is implicit
(b) Neither 1 nor 2 is implicit
(c) Only assumption 2 is implicit
(d) Both 1 and 2 are implicit

Q10. The rate of change of velocity is called:
(a) Acceleration
(b) Momentum
(c) Speed
(d) Force

Q11. The LCM of 14, 21 and 35 is:
(a) 210
(b) 70
(c) 140
(d) 7

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Q12. A$1%MB#6&NC=3!OD+KP

Starting from 1 till O (inclusive of both), if every alternate letter or number or symbol is dropped then the fifth term from right among the dropped elements will be:

(a) M
(b) #
(c) &
(d) C

Q13. Consider the given statement and decide which of the following argument(s) is/are strong.

Statement:

Should CBDT abolish income tax in India?

Argument 1: Yes, it is an unnecessary burden on the wage earners in India.

Argument 2: No, it is a good source of revenue for Indian Government.

(a) Neither argument 1 nor 2 is strong.
(b) Only argument 2 is strong.
(c) Only argument 1 is strong.
(d) Both arguments 1 and 2 are strong.

Q14. Five men or ten women can complete a job in 20 days. In how many days can 3 men and 4 women complete it?

(a) 15
(b) 20
(c) 25
(d) 10

Q15. R. Ashwin of India became the quickest bowler to reach 300 test wickets in just 54 tests. Where was this historic test played?

(a) Kanpur
(b) Kolkata
(c) Nagpur
(d) Delhi

Q16. The product of two numbers is 20. One of them is 1.25. What is the other number?

(a) 12
(b) 15
(c) 14
(d) 16

Q17. The Shanti Swarup Bhatnagar Prize is annually awarded for outstanding achievement in which area?

(a) Tribal Art Forms
(b) Indian Classical Music
(c) Science and Technology
(d) Literature

Q18. Which of the following classifications is based on atomic numbers?

(a) Modern Periodic Table
(b) Mendeleev's Periodic Table
(c) Dobereiner's Law of Triads
(d) Newlands Law Of Octaves

Q19. Solve the following

-4 - (-7 - 12 ÷ 4) = ?

(a) 0.75
(b) -2
(c) 6

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(d) -14

Q20. If the initial velocity of a car is 5 m/s, and the final velocity is 10 m/s in 5 s, then the acceleration is _____.

(a) 0.1 m/s2
(b) 1 m/s2
(c) 5 m/s2
(d) 10 m/s2

Q21. What is the measure of the smaller of the two angles formed between the hour hand and the minute hand of a clock when it is 5 : 49 p.m.?

(a) 119°
(b) 120°
(c) 119.5°
(d) 120.5°

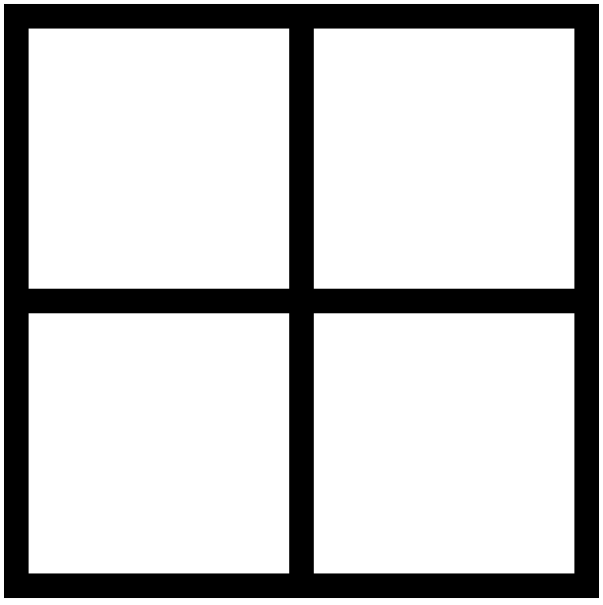
Q22. _____ was a Chinese Buddhist monk, who studied Buddhist Scriptures at Nalanda and is famous for his 17-year-long trip to India between AD 629 to 645.

(a) Fa-hien
(b) Al Beruni
(c) Hiuen Tsang
(d) Megasthenes

Q23. Solve the following expression $1/(1 + \sin\theta) + 1/(1 - \sin\theta)$.

(a) 1
(b) $2\cos^2\theta$
(c) 0
(d) $2\sec^2\theta$

Q24. What is the number of squares in the following figure?



(a) 8
(b) 7
(c) 4
(d) 5

Q25. Select the option that is related to the third term in the same way as the second term is related to the first term.

Work : Joule ? Power : _____

(a) Strength
(b) Watt

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(c) Walt
(d) Ohm

Q26. The Indira Point, the southern point of India, is situated at the _____ tip of Great Nicobar Island.
(a) northern
(b) eastern
(c) southern
(d) western

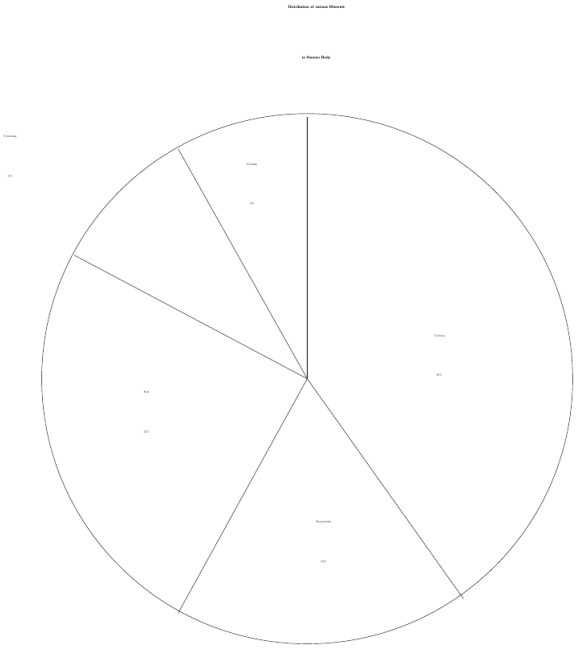
Q27. A spherical glass vessel has a cylindrical neck 7 cm long and 4 cm in diameter. The diameter of the spherical part is 21 cm. Find the quantity of water it can hold.
(a) 4932 cm^3
(b) 4930 cm^3
(c) 4929 cm^3
(d) 4939 cm^3

Q28. The pair of linear equations $3x + y = 1$ and $px + 2y = 5$ has no finite solution if:
(a) $p \geq 6$
(b) $P = 6$
(c) $0 < p < 6$
(d) $p = 0$

Q29. India is collaborating with which country to set up a high-speed rail link between Mumbai and Ahmedabad?
(a) Germany
(b) China
(c) Japan
(d) Britain

Directions

Direction: The given Pie chart shows the distribution of minerals in the human body. Study the chart carefully and answer the following question.



Q30. Which two minerals are required almost in the same percentage for the human body?
(a) Sodium and potassium
(b) Magnesium and potassium
(c) Calcium and sodium

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(d) Calcium and magnesium

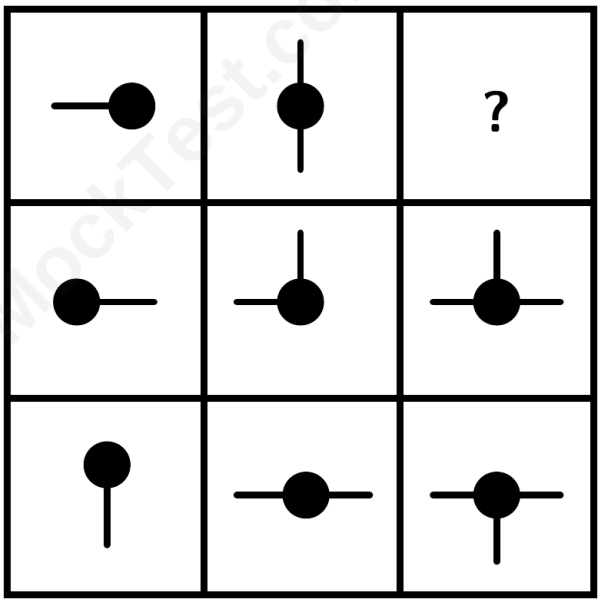
Q31. Which of the following metals is a liquid at room temperature?

(a) Sodium
(b) Calcium
(c) Mercury
(d) Lithium

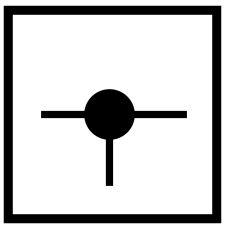
Q32. Which one of the following is commonly used as an indicator to measure the exact pH?

(a) Eosin
(b) Litmus
(c) Universal indicator
(d) Phenolphthalein

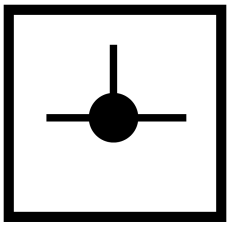
Q33. Which of the four figures can replace the question mark?



(a)

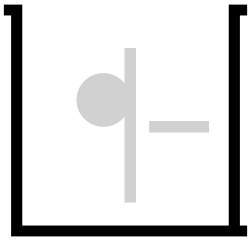


(b)

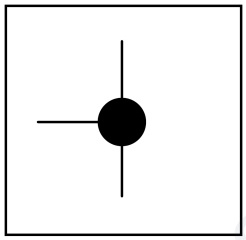


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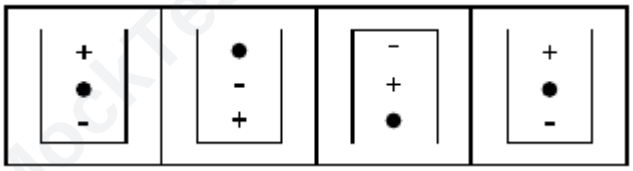
(c)



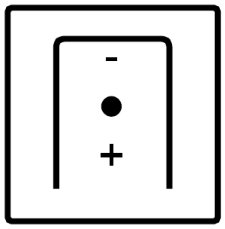
(d)



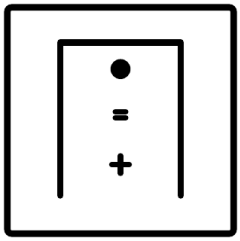
Q34. Select the option that would come next in the given figure series.



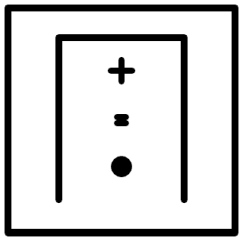
(a)



(b)

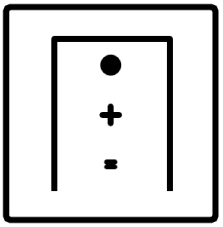


(c)



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(d)



Q35. Which Indian actor's biography is titled 'Anything but Khamosh' ?

(a) Raj Babbar
(b) Dharmendra
(c) Shatrughan Sinha
(d) Vinod Khanna

Q36. The egg is carried from the ovary to the womb through:

(a) the oviduct
(b) the uterus
(c) the vas deferens
(d) the cervix

Q37. Which team won the 2016 Champions Trophy Women's Hockey tournament defeating the Netherlands in the finals in London?

(a) Australia
(b) India
(c) Argentina
(d) China

Q38. Select the number pair that does NOT belong in the following group.

(1, 1), (4, 64), (8, 512), (9, 719)

(a) (8, 512)
(b) (1, 1)
(c) (9, 719)
(d) (4, 64)

Q39. If 60/75 is equivalent to 4/x, then the value of x is:

(a) 5
(b) 18
(c) 4
(d) 15

Q40. The acceleration due to gravity at the surface of the earth (mass M and radius R) is proportional to _____.

(a) M/R
(b) MR
(c) $M/(R^2)$
(d) $(M^2)/R$

Q41. The motile germ cell is called a/an:

(a) Isogamete
(b) Female gamete
(c) Male gamete
(d) Gamete

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Q42. 26% of a number is 65. What is the number?

(a) 260
(b) 40
(c) 250
(d) 50

Q43. Which of the given options satisfies the pattern of the sequence 1, 5, 11, 19, 29?

(a) $x^2 + x - 2$
(b) $x^2 - x - 1$
(c) $x^2 + x + 1$
(d) $x^2 + x - 1$

Q44. If a body is whirled in a circle, then the work done on it _____.

(a) cannot be determined
(b) is negative
(c) is zero
(d) is positive

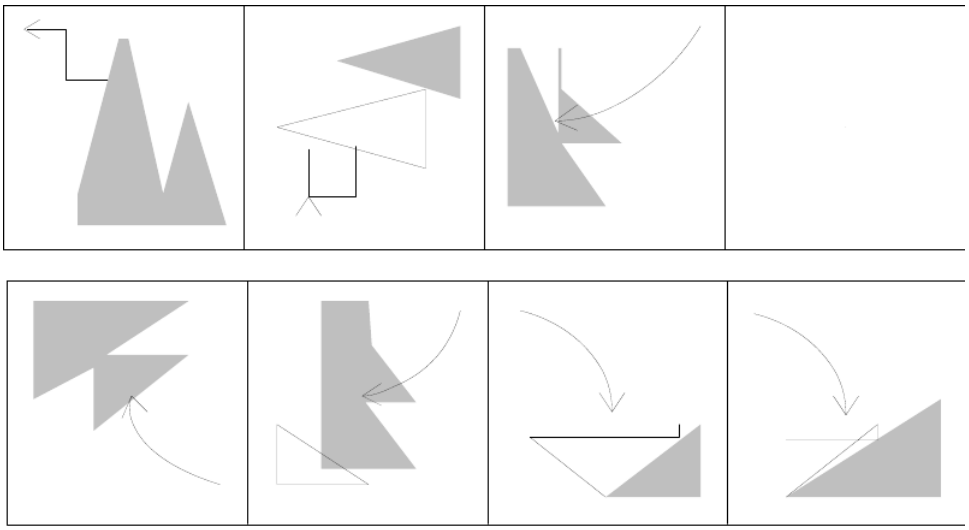
Q45. Who is the Defence Minister of India as of February 2018?

(a) Sushma Swaraj
(b) Nirmala Sitharaman
(c) Uma Bharti
(d) Maneka Gandhi

Q46. Krishna cycled a distance of 90 km at a certain speed. If he cycled 3 km/h slower, he would have taken 5 more hours to reach his destination. What is the speed in km/hr at which Krishna actually cycled?

(a) 18
(b) 15
(c) 9
(d) 7.5

Q47. Choose the correct figure that can replace the question mark.



(a) 2
(b) 1
(c) 4
(d) 3

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Q48. Solve the following: 24 - [25 - {26 - (27 - 28 - 29)}] = ?

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

Q49. 46% of 250 is equal to:

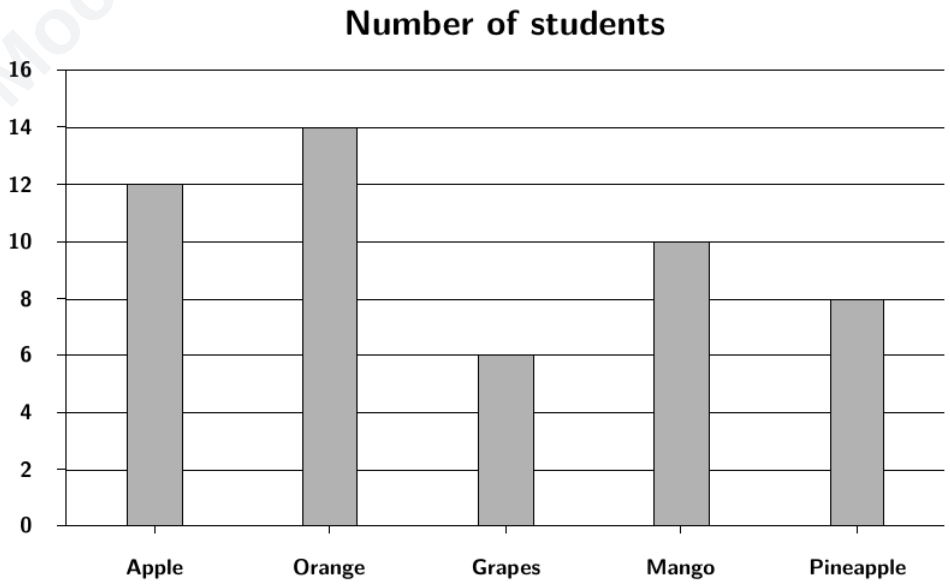
(a) 115
(b) 103.5
(c) 112
(d) 92

Q50. What is the atomicity of Phosphorus?

(a) Tetra-atomic
(b) Mono-atomic
(c) Poly-atomic
(d) Di-atomic

Directions

Direction: The bar graph represents the favourite fruit of grade 4 students. Study the graph carefully and answer the following question.



Q51. Which fruit among the given below was chosen by the least students?

(a) Orange
(b) Apple
(c) Grapes
(d) Mango

Q52. R+JM2$#QR?*O@7F3

Using the above sequence fill in the blank.

R#* : J?F ? $OJ : _____

(a) QF#
(b) #@3
(c) MOF
(d) QF*

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Q53. Select the option that depicts the correct mirror image for the given word (ignore the size).



(a)



(b)



(c)



(d)



Q54. Metals can be given different shapes according to our needs because they possess the properties of:

(a) Ductility and conductivity
(b) Malleability and sonorosity
(c) Conductivity and sonorosity
(d) Malleability and ductility

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Q55. Consider the given statement as true and decide which of the given conclusions can definitely be drawn from the given statements.

Statements:

All dogs are cats.

All cats are bats.

Conclusions:

1. All bats are cats.

2. All dogs are bats.

(a) Only conclusion 2 follows
(b) Both 1 and 2 follow
(c) Only conclusion 1 follows
(d) Either 1 or 2 follows

Q56. Assuming that the charge of an electron is 1.6 × 10^(-19) C, the number of electrons passing through a section of wire per second when the wire carries a current of 1 A is:

(a) 1.6 × 10^(-19)
(b) 1.6 × 10^(19)
(c) 0.625 × 10^(17)
(d) 6.25 × 10^(18)

Q57. If V is the brother of U, U is the sister of W and X is the husband of U, then W is V's _____.

(a) Mother
(b) Brother-in-law or sister-in-law
(c) Brother or sister
(d) Uncle or aunty

Q58. What is the value of 12 + 3(-2 × 3) - (18 ÷ 6) = ?

(a) 5
(b) 9
(c) -9
(d) -5

Q59. Consider the given statement to be true and decide which of the given courses of action logically follow(s) from the statement.

Statement:

All the central government employees went on strike due to non-implementation of 7^(th) pay commission.

Course of Action:

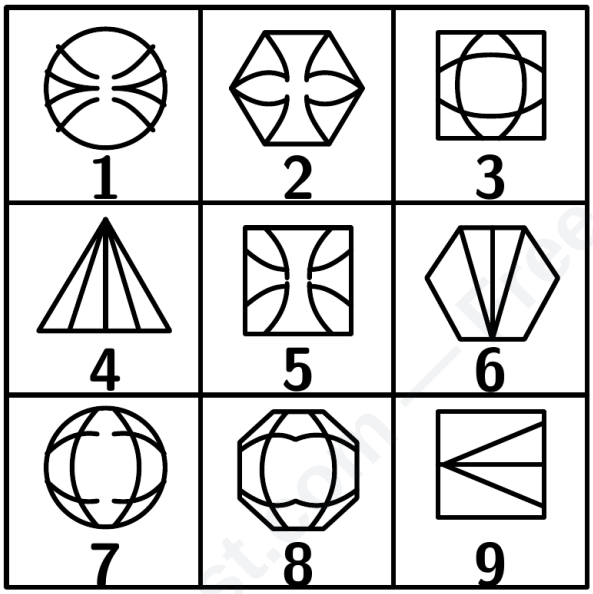
1. 7^(th) pay commission should be implemented immediately.

2. All the central government employees should be suspended.

(a) Neither 1 nor 2 follows.
(b) Only 2 follows.
(c) Both 1 and 2 follow.
(d) Only 1 follows.

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Q60.



If three groups could be formed using the given figures only once, these groups would be _____.

(a) (1, 2, 5), (3, 6, 8) and (4, 7, 9)
(b) (1, 2, 5), (4, 7, 8) and (3, 6, 9)
(c) (1, 2, 9), (3, 7, 8) and (4, 6, 5)
(d) (1, 2, 5), (3, 7, 8) and (4, 6, 9)

Q61. Which of the following plant tissues is capable of cell division?

(a) Meristem
(b) Xylem
(c) Parenchyma
(d) Sclerenchyma

Q62. One nanometer is:

(a) 10-11 m
(b) 10-10 m
(c) 10-8 m
(d) 10-9 m

Q63. Consider the given question and decide which of the following statements is sufficient to answer the question.

What is the weight of ten iron balls if each ball is of the same weight?

Statements:

1. One-fourth of each ball's weight is 5 kg.
2. The total weight of three iron balls is 20 kg more than the total weight of two iron balls.

(a) Statement 1 and 2 alone is sufficient
(b) Statement 1 alone is sufficient while statement 2 alone is insufficient
(c) Statement 2 alone is sufficient while statement 1 alone is insufficient
(d) Both statement 1 and 2 are sufficient

Q64. John is 15 years younger than Jill. 12 years ago, Jill's age was 1.5 times that of John. Jill is now _____ years old.

(a) 30
(b) 45
(c) 57
(d) 42

Q65. Sound is a:

(a) Mechanical wave
(b) Tidal wave
(c) Electromagnetic wave
(d) Surface wave

Q66. Select the missing term based on the given related pair of letter clusters.

ABC : ZYX ? DEF : _____

(a) WVU
(b) VUW
(c) UVW
(d) WUV

Q67. Which state of India celebrates the 'Sangai Festival' in November?

(a) Gujarat
(b) Assam
(c) Manipur
(d) Tamil Nadu

Q68. Which one of the following is the largest source of natural energy to humans?

(a) Earth
(b) Plants
(c) Sun
(d) Animals

Q69. The average marks obtained by a group of 10 students were 20. One student left the group as a result of which the average of the remaining students rose to 21. But another student joined, as a result of which the average marks of the group dropped a bit and became 20.6. What were the average marks obtained by the student who left and the one who joined?

(a) 16
(b) 15
(c) 13
(d) 14

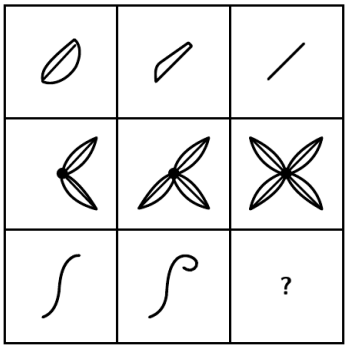
Q70. Who is the newly appointed Foreign Secretary of India who took charge in early 2018?

(a) Vijay Keshav Gokhale
(b) Rajni Sekhri Sibal
(c) Usha Rani
(d) Nitin Kumar Yadav

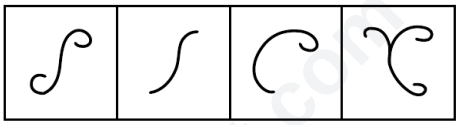
Q71. Select the Answer Figure that will correctly fit in the blank space in the Problem Figure.

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Problem figure



Answer figure



(a) D
(b) C
(c) B
(d) A

Q72. The two roots of a quadratic equation are given as x = 1/2 and x = -1/3. The equation can be written as:
(a) (2x – 1)(3x + 1) = 0
(b) (2x + 1)(3x – 1) = 0
(c) (2x – 1)(3x – 1) = 0
(d) (2x + 1)(3x + 1) = 0

Q73. Two water-squash mixtures, the first with a water-to-squash ratio of 5: 1 and the latter with a ratio of 3: 1 are blended in the ratio 3: 2. What is the final water-squash ratio in the blend?
(a) 5 : 3
(b) 6 : 1
(c) 4 : 1
(d) 10 : 9

Q74. Aluminium oxide is _____ in nature.
(a) basic
(b) acidic
(c) neutral
(d) amphoteric

Q75. What is the Centre of Curvature of a spherical mirror?
(a) It is the centre of a hollow sphere of which the spherical mirror is a part.
(b) It is a point from which the rays of light appear to be coming from on the principal axis of a convex mirror.
(c) It is the midpoint of a spherical mirror.
(d) It is the point on the principal axis through which rays of light parallel to the principal axis pass after reflection.

ANSWER KEY

1	a	2	a	3	a	4	a	5	a	6	a	7	a	8	a	9	a	10	a
11	a	12	a	13	a	14	a	15	a	16	a	17	a	18	a	19	a	20	a
21	a	22	a	23	a	24	a	25	a	26	a	27	a	28	a	29	a	30	a
31	a	32	a	33	a	34	a	35	a	36	a	37	a	38	a	39	a	40	a

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41	a	42	a	43	a	44	a	45	a	46	a	47	a	48	a	49	a	50	a
51	a	52	a	53	a	54	a	55	a	56	a	57	a	58	a	59	a	60	a
61	a	62	a	63	a	64	a	65	a	66	a	67	a	68	a	69	a	70	a
71	a	72	a	73	a	74	a	75	a										

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