

Live Leak - RRB ALP 2018 Model

Question Paper

Q1. An electro-magnet is made of-

- a) Soft iron b) Copper
- c) Hard Steel d) Zinc

Q2. A force of 50N acts on a body and moves the body on a straight path to a distance of 4 metres. Find the work done if the force acts at an angle of 60° with horizontal.

- a) 100J b) 300J
- c) 10J d) 200J

Q3. WWF stands for:

- a) Web World Federation
- b) World Wildlife Federation
- c) World Wildlife Fund
- d) World Web Federation

Q4. "FEMTO" means-

- a) 10^{-15} b) 10^{-9}
- c) 10^{-12} d) 10^{-6}

Q5. Which of the following species is also called the 'Kashmir Deer'?

- a) Hangul b) Barasingha
- c) Sangai d) Cheetal

Q6. A body of mass 40 kg accelerates from rest at the rate of 5 m/sec^2 . What distance would the body travel in 20 seconds?

- a) 800 metres b) 1000 metres
- c) 850 metres d) 900 metres

Q7. Who is credited with the invention of Barometer?

- a) Evangelista Torricelli
- b) Sylvester Platini
- c) Robert Burns
- d) None of the above

Q8. Heating of an ore below its melting point in the absence of air is known as _____.

- a) Refining b) Calcination
- c) Roasting d) Smelting

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Q9. Total number of lone pairs in HCO - COOH molecule is

- a) 7 b) 8
c) 6 d) 9

Q10.

Name	Chemical formula
1. Baking Powder	NaHCO ₃
2. Vinegar	C ₂ H ₄ O ₃
3. Bleaching powder	Ca(ClO) ₂
4. Chalk	CaCl ₂

Which of the above matching is correct?

Choose the correct option.

- a) 1, 2 and 4 only b) 1 and 3 only
c) 1, 3 and 4 only d) 1, 2, and 3 only

Q11. Lichens are indicator of

- a) SO₂ pollution b) CO₂ pollution
c) O₃ pollution d) NO₃ pollution

Q12. In adult mammals, Erythrocytes are formed in _____

- a) Kidney b) Liver
c) Bone marrow d) Spleen

Q13. What is the isotone of $_{32}\text{Ge}^{76}$?

- a) $_{32}\text{Ge}^{77}$ b) $_{34}\text{Se}^{78}$

- c) $_{36}\text{Kr}^{79}$ d) $_{32}\text{Ge}^{78}$

Q14. What does E stand for in REDD?

- a) Ecology b) Energy
c) Emissions d) Environment

Q15. Bonn convention is related to -

- a) Migratory species
b) Chemical weapons
c) Pollution
d) Conservation of soil

Q16. Anthropology is the study of _____.

- a) Fossils
b) Humans and human society
c) Earth and rocks
d) Ants

Q17. Match correctly the functional group given in List-I with the Nomenclature of that functional group given in list-II:

List I	List II
a. Aldehyde	i. Propanone
b. Halogen	ii. Propanal
c. Ketone	iii. Propanol

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d. Alcohol

iv. Bromopropane

a) a-iv, b-i, c-ii, d-iii

b) a-ii, b-iv, c-i, d-iii

c) a-ii, b-i, c-iv, d-iii

d) a-ii, b-iii, c-iv, d-i

Q18. Which of the following elements are in liquid state at room temperature?

a) Bromine

b) Iodine

c) Mercury

d) Hafnium

a) Only a

b) Only c

c) Only a, c

d) Only a, c, d

Q19. Arrange the following materials in the order of decreasing electrical conductivity:

Silicon, Glass, Aluminium, Silver

a) Glass, Silicon, Aluminium, Silver

b) Aluminium, Silver, Glass, Silicon

c) Silver, Silicon, Aluminium, Glass

d) Silver, Aluminium, Silicon, Glass

Q20. A boat weighing 200 kg floats on water. The weight of water displaced would be -

a) 220 kg

b) 0 kg

c) 180 kg

d) 200 kg

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Q21. Where did the Indian Navy host the multi-national MILAN exercise from March 6 to March 13, 2018?

a) Chennai

b) Dehradun

c) Mumbai

d) Port Blair

Q22. Who is the author of the best-selling book, "A Brief History of Time"?

a) Ray Bradbury

b) Isaac Asimov

c) Charles Stross

d) Stephen Hawking

Q23. _____ is the capital of Philippines.

a) Beirut

b) Manila

c) Muscat

d) Male

Q24. Winter Paralympics 2018 is taking place at _____.

a) Seoul

b) Busan

c) Pyeongchang

d) Incheon

Q25. Which of the following organisations celebrated its 20th anniversary recently?



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- a) WTO b) ILO
c) ASEAN d) BIMSTEC

Q26. _____ has become the first railway zone in the country to complete 100% LED lighting at all the stations under its jurisdiction.

- a) North Central Railway Zone
b) Central Railway Zone
c) South Central Railway Zone
d) Western Railway Zone

Q27. Which country won IBSF Snooker Team World Cup 2018?

- a) Pakistan b) India
c) Australia d) Japan

Q28. Prime Minister flagged off the country's first high-powered electric locomotive assembled in Madhepura in _____.

- a) Uttar Pradesh b) Chhattisgarh
c) Maharashtra d) Bihar

Q29. Which of the following app/apps won award/awards at World Government Summit 2018?

- a) Aadhaar b) Umang
c) Both 1 and 2 d) None

Q30. Which of the following is NOT a classical dance?

- a) Kolattam b) Odissi
c) Manipuri d) Kathak

Q31. In the following question, select the odd word from the given alternatives.

- a) Teach b) Train
c) Upskill d) Read

Q32. Direction: In the following question, select the odd word from the given alternatives.

- a) Jwala Gutta b) Chetan Anand
c) P. V. Sindhu d) Leander Paes

Q33. In the following question, select the odd word from the given alternatives.

- a) Kufri b) Ponmudi
c) Chail d) Diu

Q34. In the following questions, select the related word/letters/number from the given alternatives.

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- a) 23 b) 22
c) 24 d) 21

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Q35. In the following questions, select the related word from the given alternatives.

? : Yamuna :: Guwahati : ?

- a) Mathura, Saryu
- b) Kolkata, Saryu
- c) Agra, Brahmaputra
- d) Kashi, Brahmaputra

5	12	17
15	13	8
10	69	47
65	87	?

- a) 85 b) 87
- c) 89 d) 83

Q36. In a certain code, GIGANTIC is written as GIGTANCI. Then how will MIRACLES be written in the same language?

- a) MIRLCAES b) MIRLACSE
- c) RIMCALSE d) RIMLCAES

Q37. In a certain code language, 'wek axs uham koed' means 'she is eating grapes'; 'wek tepo qua' means 'she sells toys' and 'sul lim koed' means 'I like grapes'. which word in that language means 'she' and 'grapes'?

- a) axs & koed b) axs & wek
- c) wek & koed d) koed & tepo

Q38. Direction: In the following question, find the missing number from the given responses.

Q39. If '+' means '/', '/' means '-', '-' means '×', '×' means '+', then

$$56 + 14/3 - 6 \times 5 = ?$$

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

Q40. Direction: Choose the odd one. Skull, Appendix, Maxilla, Mandible

- a) Skull b) Maxilla
- c) Appendix d) Mandible

Q41. In the question, a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series:

CE, FI, JL, MP, QS, ____?

- a) TW b) TV
- c) XZ d) UX





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Q42. Direction: Find out the correct answer for the unsolved equation based on a certain system.

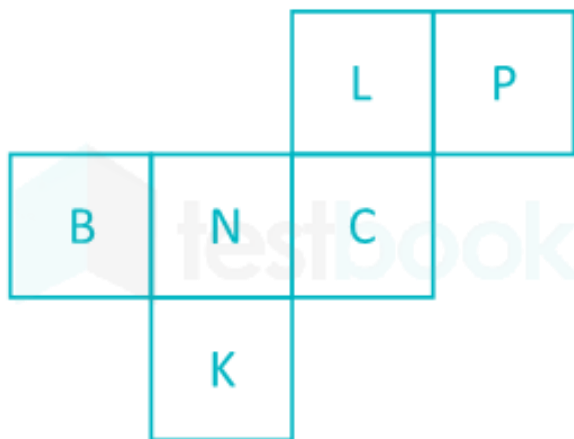
$$\text{If } 891 = 72$$

$$257 = 70$$

$$\text{Then } 529 = ?$$

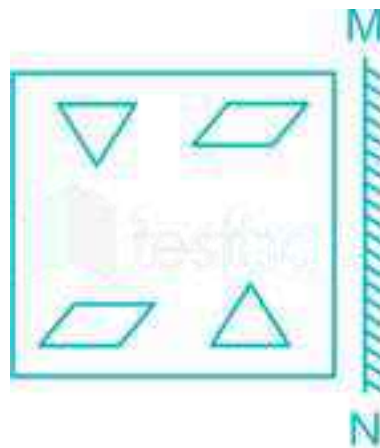
- a) 63 b) 90
c) 09 d) 105

Q43. From the given options, which answer figure can be formed by folding the figure given in the question?



- a)
- b)
- c)
- d)

Q44. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



- a)
- b)
- c)
- d)

Q45. A word is represented by one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and



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rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column. e.g., 'A' can be represented by 02, 14, 33, etc. and 'K' can be represented by 57, 69, 88, etc. Identify the set for the word BORD.

MATRIX – I					
	0	1	2	3	4
0	R	D	A	C	N
1	C	N	R	S	A
2	S	A	C	N	R
3	N	R	D	A	C
4	A	C	N	R	S

MATRIX – II					
	5	6	7	8	9
5	O	B	K	E	P
6	E	P	O	B	K
7	B	K	E	P	O
8	P	O	B	K	E
9	K	E	P	O	B

- a) 87, 67, 24, 32 b) 87, 76, 24, 32
c) 87, 67, 12, 23 d) 87, 67, 42, 01

Comprehension start:

Direction: Read the following information carefully and answer the questions given below:

Six people P, Q, R, S, T and U are siblings. They go for study in different colleges - Indraprastha college, Miranda college, Ramjas college, Hansraj college, Hindu college and Gargi college once in a week from Monday to Saturday. Not more than one person go on same day. Sunday is a holiday. Following information is given as follows:

- I. P goes to study in Ramjas college on Tuesday and R goes to his college on Saturday.
II. Q goes to Hindu college a day after P.
III. S goes to Indraprastha college a day after Q.
IV. Someone goes to Miranda college two days before Q.
V. U goes to Gargi college.

Q46. Who goes to study in Miranda college?

- a) P b) R
c) S d) T

Q47. Where does R go to study?

- a) Hindu b) Indraprastha
c) Hansraj d) Gargi



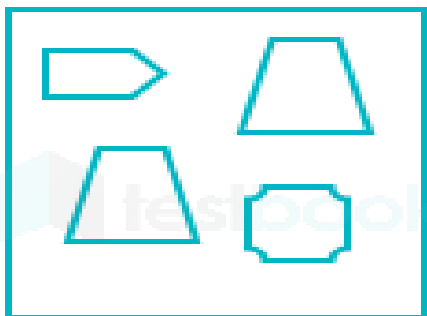
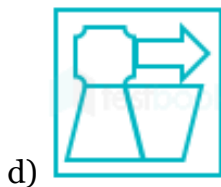
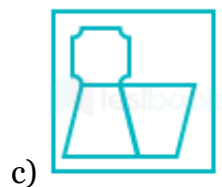
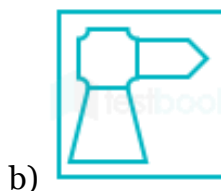
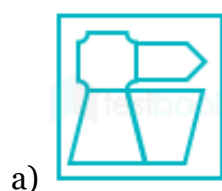
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Q48. Q goes to his college on which day?

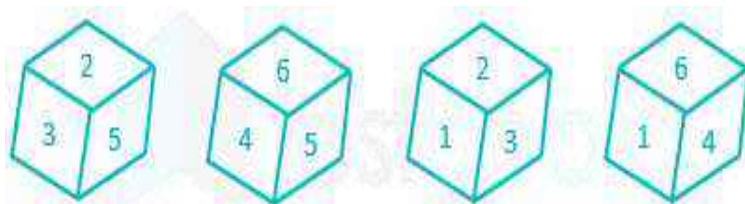
- a) Wednesday b) Tuesday
c) Friday d) Sunday

Comprehension end

Q49. Find out which of the following figures (1), (2), (3) and (4) can be formed from the pieces given in figure (X). (using all pieces once)

**X**

Q50. Four positions of a dice are given below. Identify which number is on the face opposite 2?



- a) 1 b) 4
c) 5 d) 6

Q51. If $57 \$ 3 ? 7 = 133$ and $87 \$ 3 ? 2 = 58$, then $82 \$ 2 ? 4 = 164$

- a) 160 b) 164
c) 155 d) 157

Comprehension start:

Study the following information carefully and answer the questions based on it.

A salesman visits 274 houses in a town to find out the views about three products X, Y and Z. He found that 157 use X, 98 use only X, 22 use all the three, 14 use X and Z but not Y, 39 use Y and Z, 48 use only Y.

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Q52. Which product is the most popular one?

- a) X b) Y
- c) Z d) Both X and Z

Q53. How many use product Z only?

- a) 10 b) 50
- c) 52 d) 25

Q54. What fraction used at least two products?

- a) $\frac{67}{274}$ b) $\frac{76}{274}$
- c) $\frac{73}{274}$ d) $\frac{37}{274}$

Comprehension end

Q55. Below are given statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.

Statement:

Fortune favours the brave.

Conclusions:

I: Risks are necessary for success.

II: Cowards die many times before their death.

- a) Either Conclusion I or II follows.
- b) Only Conclusion I follows.
- c) Only Conclusion II follows.
- d) Neither Conclusion I nor II follow.

Q56. Simplify up to two decimal places.

$$14.14 + 0.2 \overline{3}1.34 - 2.6 \overline{2}43$$

- a) 21.65 b) 14.09
- c) 18.76 d) 7.63

Q57. If $3x + 3 + 3x - 2 = 244$, then what is the value of x?

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

Q58. When a number is divided by 893, the remainder is 193. What will be the remainder when it is divided by 47?

- a) 3 b) 5
- c) 25 d) 33

Q59. What is 15% of 34?

- a) 5.1 b) 5
- c) 5.2 d) 4.9



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Q60. To reach his office, a man drove for 40 min. covering 35 km and increased the speed by 7.5 km/hr for the next 45 km. How much time did he take to reach his office?

- a) 1 hr. 5 min. b) 1 hr. 15 min.
c) 1 hr. 25 min. d) 1 hr. 35 min.

Q61. In a class, 40% of the students were girls. 70% of the boys secured more than 60% marks in the examination, while 80% of the remaining passed with less than or equal to 60% marks. If 9 boys failed in the examination, find the number of students in the class.

- a) 120 b) 180
c) 250 d) 300

Q62. The current age of two brothers is in the ratio 4 : 3. If six years ago, their age was in the ratio 10 : 7, find the ratio of their age after 9 years.

- a) 3 : 2 b) 5 : 4
c) 7 : 5 d) 9 : 7

Q63. Vinod and Vicky did a work together in 6 days and received their

wages in the ratio 2 : 3. In how many days can Vinod do the work alone?

- a) 8 days b) 10 days
c) 12 days d) 15 days

Q64. The average weight of a group of friends is 54 kg. When one friend weighing 40 kg left the group, the average weight became 55 kg. Find the initial number of friends in the group.

- a) 5 b) 10
c) 15 d) 20

Q65. A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series

45, 69, 101, 143, ?

- a) 185 b) 191
c) 197 d) 189

Q66. In a rhombus, the length of a diagonal is 49 cm less than the other diagonal. The area of the rhombus is 1911 square cm. Find the length of both the diagonals.

- a) 43 cm, 92 cm b) 46 cm, 95 cm
c) 49 cm, 98 cm d) 42 cm, 91 cm

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Q67. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

4, 13, 40, 121, ?

- a) 350 b) 360
c) 364 d) 362

Q68. If $(a + b)^2 = 9$, $(b + c)^2 = 1$ and $(a + b + c)^2 = 4$, find the value of $(b^2 - 2ac)$.

- a) 4 b) 6
c) 8 d) 12

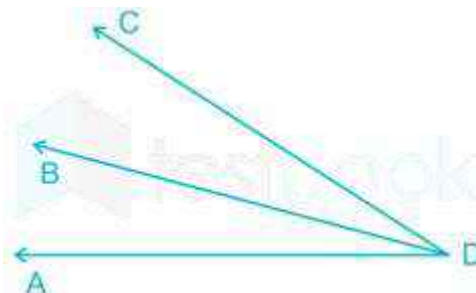
Q69. If $\tan^2 A + \cot^2 A + 2 = x$, then the value of x is

- a) $\tan^2 A \sec^2 A$ b) $\sec A \csc A$
c) $\sec^2 A \csc^2 A$ d) $\tan A \csc A$

Q70. If $\sec \theta = 13/12$, then what is the value of $\sin \theta$?

- a) $5/13$ b) $12/5$
c) $12/13$ d) $5/12$

Q71. In the given figure $\angle CDB = (8y + 8)^\circ$, $\angle BDA = 5y - 3^\circ$ and $\angle ADC = 70^\circ$. Find $\angle CDB$ and $\angle BDA$.



- a) $45^\circ, 25^\circ$ b) $48^\circ, 22^\circ$
c) $22^\circ, 48^\circ$ d) $25^\circ, 45^\circ$

Q72. Reflection of the point $(-1, 4)$ in the x -axis is

- a) $(1, 4)$ b) $(1, -4)$
c) $(-1, 4)$ d) $(-1, -4)$

Q73. At what percentage above the cost price, the price of a product should be marked such that after a discount of 10%, a profit of 8% can be earned?

- a) 16% b) 18%
c) 20% d) 22%

Q74. A boat can travel at a speed of 12 km/hr in still water. If it takes 2 hrs. 40 min. to travel 20 km upstream, at what speed will it return back?

- a) 13.5 km/hr. b) 16.5 km/hr.
c) 18 km/hr. d) 19.5 km/hr



Q75. How much water must be added in 15 litres of honey-water mixture in ratio 3 : 1, such that the ratio of new mixture is 2 : 1?

- a) 1.25 litres b) 1.375 litres
c) 1.75 litres d) 1.875 litres

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