Smart, Structured & Syllabus-Aligned Content

RICE EDUCATION



PYQs

RAILWAY EXAMS

RRB ALP & Technicians (2018)

PREVIOUS YEAR QUESTIONS 2018

Q.1 The below figure is embedded in one of the four answer figures. Which of the figures contain the below problem figure?

A. A
B. D
C. B
D. C

Answer : D. C

Q.2 Who among the following is an Indian gymnast who received the prestigious Padma Shri Award in 2017 by the Government of India?

A. Sakshi Malik
B. PV Sindhu
C. Koneru Hampy
D. Dipa Karmakar

Answer : D. Dipa Karmakar

Q.3 Students are sitting in a row in which the position of X is 17th from the left and that of Y is 14th from the right. If they interchange their positions, X's position becomes 7th from the left. How many students are there in the row?

A. 21
B. 19
C. 22
D. 20

Answer : D. 20

Q.4 Using the following sequence, determine which of the given options does not belong to the group.
RB75E%M3W48Q9#B2ASMS

A. 3Q2
B. 4#M
C. REW
D. B%4

Answer : B. 4#M

Q.5 What is X's rank from the top in a class of 50 students?
Statements:
1. Y's rank is 4 ranks below that of X and 30th from the bottom.
2. Z's rank is 2 ranks above that of X and 32nd from the bottom.

A. 1 alone is sufficient while 2 alone is not sufficient to answer the given question.
B. 2 alone is sufficient while 1 alone is not sufficient to answer the given question.
C. Either 1 or 2 is sufficient to answer the given question.
D. Both 1 and 2 are sufficient to answer the given question.

Answer : C. Either 1 or 2 is sufficient to answer the given question.

Q.6 A man looks at a portrait and says, "She is my Father-in-law's only grand-daughter". How is the girl in the portrait related to this man's wife?

A. Daughter
B. Sister
C. Niece
D. Mother

Answer : A. Daughter

Q.7 The given Problem Figure is embedded in one of the given Answer Figures. Which is that Answer Figure?

A. A
B. B
C. C
D. D

Answer : B. B

Q.8 If $3x^2 - ax + 6 = ax^2 + 2x + 2$ has only one (repeated) solution, then the positive integral solution of a is:

A. 2
B. 4
C. 5
D. 3

Answer : A. 2

Q.9 How old was X on 15 January 2017?

Statements:

1. X is 50 years older than his brother Y.

2. Y is 20 years younger than his mother.

A. 2 alone is sufficient while 1 alone is not sufficient to answer the given question.
B. Neither 1 nor 2 is sufficient to answer the given question.
C. 1 alone is sufficient while 2 alone is not sufficient to answer the given question.
D. Both 1 and 2 are sufficient to answer the given question.

Answer : B. Neither 1 nor 2 is sufficient to answer the given question.

Q.10 What happens to the Potential and Kinetic energies of a body as it falls down from a height?

A. Its Potential energy increases while its Kinetic energy decreases.
B. Its Potential and Kinetic energies decrease.
C. There is no change in its Potential or Kinetic energy.
D. Its Potential energy decreases while its Kinetic energy increases.

Answer : D. Its Potential energy decreases while its Kinetic energy increases.

Q.11 Arrange the following in a proper sequence:

A. Mutation
B. Reproductive isolation
C. Natural selection
D. Evolution

A. C, B, A, D
B. A, B, C, D
C. D, C, B, A
D. A, C, D, B

Answer : B. A, B, C, D

Q.12 An incident ray strikes a plane mirror at an angle of 20° with the mirror. The angle between the incident ray and reflected ray is:

A. 20°
B. 50°
C. 140°
D. 40°

Answer : C. 140°

Q.13 City U is 9 km towards the east of City V. City W is 5 km towards the south of City U. City X is 3 km towards the west of City W. City Y is 5 km towards the north of City X. City Z is 7 km towards the south of City X. Which of the cities lie on a straight line?

A. UVW
B. YWU
C. UXZ
D. XZY

Answer : D. XZY

Q.14 In the following series, one number is missing as shown by the question mark (?). Select the missing number from the given options.

8, 12, 16, 20, ?

A. 22
B. 32
C. 26
D. 24

Answer : D. 24

Q.15 Solve the following:

(-8) [36 ÷ {7 - (-2)}] ÷ (-4) {19 - (-3) × (-5)} = ?

A. 2
B. -2
C. -4
D. 4

Answer : A. 2

Q.16 The product of two numbers is 0.324. One of the numbers is 1.2. What is the other number?

A. 27
B. 2.7
C. 0.027
D. 0.27

Answer : D. 0.27

Q.17 What is the action of dry HCl gas on dry litmus paper?

A. Blue litmus paper turns red.
B. Blue or red litmus paper does not change its colour.
C. Blue litmus paper turns white.
D. Red litmus paper turns blue.

Answer : B. Blue or red litmus paper does not change its colour.

Q.18 Statements:

Most lawyers are females. Some females are mothers.

Conclusions:

1. Some mothers are females.

2. Some lawyers are mothers.

A. Only conclusion 1 follows.
B. Both 1 and 2 follow.
C. Only conclusion 2 follows.
D. Neither 1 nor 2 follows.

Answer : A. Only conclusion 1 follows.

Q.19 Syngamy is defined as:

A. the fusion of one of the sperms with the synergid

B. the fusion of one of the sperms with the egg
C. the fission of one egg
D. the fission of one sperm
Answer : B. the fusion of one of the sperms with the egg
Q.20 38% of 250 is equal to:
A. 104.5
B. 95
C. 76
D. 114
Answer : B. 95
Q.21 What is the minimum number of straight lines required to construct the following figure?
A. 12
B. 13
C. 14
D. 11
Answer : B. 13
Q.22 How many times in a week does both the hands of the clock coincide with each other?
A. 168
B. 160
C. 84
D. 56
Answer : A. 168
Q.23 Who took over as the new CEO of IT giant Infosys at the beginning of 2018?
A. Rohan Murthy
B. Salil Parekh
C. Vishal Sikka
D. Raghuram Rajan
Answer : B. Salil Parekh
Q.24 Select the missing figure based on the given related pair of figures.
A. Figure A
B. Figure B
C. Figure C
D. Figure D
Answer : B. Figure B
Q.25 Which of the following instruments is used to measure electric current?
A. Rheostat
B. Ammeter
C. Galvanometer
D. Voltmeter
Answer : B. Ammeter
Q.26 From the top of a platform 5 m high, the angle of elevation of a tower was 30°. If the platform was positioned $40\sqrt{3}$ m away from the tower, how tall was the tower?
A. 40 m
B. $30\sqrt{3}$ m
C. $20\sqrt{3}$ m
D. 45 m
Answer : D. 45 m

Q.27 The weight of a boy on the surface of the moon is 300 N. The weight of the same boy on the surface of the earth will be:
A. 1800 N
B. 5 N
C. 300 N
D. 50 N
Answer : A. 1800 N
Q.28 Who is the Human Resource Development Minister in Prime Minister Modi's cabinet as of February 2018?
A. Suresh Prabhu
B. Prakash Javadekar
C. Jual Oram
D. Maneka Gandhi
Answer : B. Prakash Javadekar
Q.29 The initial ratio of sugar to flour in a dough was 2 : 7. To 9 kg of the dough John added more sugar to make the sugar to flour ratio 2 : 5. How much sugar did John later add?
A. 1.2 kg
B. 750 g
C. 800 g
D. 1 kg
Answer : A. 1.2 kg
Q.30 Which of the following animals do NOT belong to the class of reptiles?
A. Turtle
B. Toad
C. Snake
D. Crocodile
Answer : B. Toad
Q.31 Plants bend towards light due to the diffusion of the _____ hormone on the other side of the shoot.
A. abscisic acid
B. gibberellin
C. auxin
D. cytokinin
Answer : C. auxin
Q.32 The most reactive of the following metals is:
A. Ni
B. Pb
C. Ca
D. Al
Answer : C. Ca
Q.33 If sum of 1000 amount to 1331 in 3 years, compounded annually. Then, find rate of interest per annum?
A. 15%
B. 20%
C. 10%
D. 30%
Answer : C. 10%

Q.34 Who is the CEO of the Unique Identification Authority of India (UIDAI) as of February 2018?
A. Ajay Bhushan Pandey
B. Ajit Doval
C. Anil Dhasmana
D. Nandan Nilekani
Answer : A. Ajay Bhushan Pandey

Q.35 Which actress won the Kerala State Film Award for best actress in her debut film 'Anuraga Karikkin Vellam'?
A. Rajisha Vijayan
B. Parvathy
C. Nimisha Sajayan
D. Anna Reshma Rajan
Answer : A. Rajisha Vijayan

Q.36 Consider the argument and decide which of the given assumptions is/are implicit:
Argument: Use of cell phone is strictly prohibited on the college premises.
Assumptions:
1. Students using phones on the college premises will be strictly punished.
2. No student is allowed to use a phone on college premises.
A. Only assumption 1 is implicit
B. Only assumption 2 is implicit
C. Both 1 and 2 are implicit
D. Neither 1 nor 2 is implicit
Answer : B. Only assumption 2 is implicit

Q.37 Which of the following metals is the most Malleable?
A. Zn
B. Al
C. Ag
D. Na
Answer : C. Ag

Q.38 Who has been appointed as the Chairman of the State Bank of India (SBI) after Arundhati Bhattacharya retired?
A. Rajnish Kumar
B. K Venkataraman
C. Rana Kapoor
D. Kishor Kharat
Answer : A. Rajnish Kumar

Q.39 The interest earned on ₹2250 at the rate of 3% simple interest per annum for 2 years will be:
A. ₹225
B. ₹135
C. ₹202.50
D. ₹67.50
Answer : B. ₹135

Q.40 Reciprocal of 2 (3/5) is:
A. 3 (3/5)
B. 5 (3/2)
C. 5/13
D. 2 (3/5)

Answer : C. 5/13

Q.41 Which of the following statements is INCORRECT?

A. The particles of matter are in stationary state.

B. The particles of matter attract each other.

C. The particles of matter have spaces between them.

D. The particles of matter are extremely small.

Answer : A. The particles of matter are in stationary state.

Q.42 Select the word pair that is analogous to the given word pair.

Horse : Pony :: ?

A. Insect : Larva

B. Stag : Doe

C. Drone : Bee

D. Son : Daughter

Answer : A. Insect : Larva

Q.43 The ratio of the areas of a square and a regular hexagon, both inscribed in a circle is?

A. 2 : 3

B. $3\sqrt{3}$: 2

C. 4 : $3\sqrt{3}$

D. 1 : $\sqrt{3}$

Answer : C. 4 : $3\sqrt{3}$

Q.44 The average of three numbers is 6. The average of the first two is 5 while the average of the last two is 8. The three numbers are:

A. 2, 7, 9

B. 2, 6, 10

C. 2, 8, 8

D. 3, 7, 8

Answer : C. 2, 8, 8

Q.45 A sound wave has a frequency of 4 kHz and a wavelength of 40 cm. The time taken by the sound wave to travel a distance of 3.2 km is:

A. 2.0 s

B. 0.5 s

C. 4.0 s

D. 1.0 s

Answer : A. 2.0 s

Q.46 Kolleru Lake, located in the southern state of Andhra Pradesh, is located at the delta of two rivers. Which are the rivers?

A. Krishna and Cauvery

B. Godavari and Mahanadi

C. Tungabhadra and Chitravathi

D. Godavari and Krishna

Answer : D. Godavari and Krishna

Q.47 City A Data: Population = 200, Literate = 150, Illiterate = 50. Based on the given data, the percentage of literates in City A is:

A. 75

B. 80

C. 65

D. 70

Answer : A. 75

Q.48 If each term in the given sequence is assigned number 1, 2, 3... according to their position from the left, then the sum of the numerical values of the positions of the symbols will be:

R + J M 2 $ # Q R ? * O @ 7 F 3

A. 44

B. 48

C. 49

D. 51

Answer : C. 49

Q.49 Choose the correct mirror image of the problem figure when the mirror is held at AB line:

Answer Figures: A, B, C, D

A. B

B. C

C. A

D. D

Answer : C. A

Q.50 Solve the following:

24 ÷ (20 - 12 ÷ 3 × 8) = ?

A. 3

B. -3

C. 6

D. -2

Answer : D. -2

Q.51 If sec θ + tan θ = 4, then sec θ - tan θ = ?

A. 0.75

B. 0.5

C. 0.25

D. 1

Answer : C. 0.25

Q.52 19 × 23 = 437. Then 190 × 0.023 = ?

A. 0.0437

B. 43.7

C. 4.37

D. 0.437

Answer : C. 4.37

Q.53 How old is Mrinal?

Statements:

1. Mrinal's mother is 20 years older than him.

2. Mrinal's brother is 3 years younger than him.

A. Statement 1 alone is sufficient but statement 2 alone is not sufficient.

B. Statement 2 alone is sufficient but statement 1 alone is not sufficient.

C. Statements 1 and 2 together are not sufficient, and additional data is needed.

D. Both statements taken together are sufficient.

Answer : C. Statements 1 and 2 together are not sufficient, and additional data is needed.

Q.54 When a bullet is fired from a gun, the gun moves in the opposite direction. This illustrates Newton's:

A. first and second law of motion

B. third law of motion
C. second law of motion
D. first law of motion
Answer : B. third law of motion
Q.55 Aqueous solution of copper sulphate:
A. does not affect litmus
B. turns blue litmus red
C. turns red litmus blue
D. affects both red and blue litmus
Answer : B. turns blue litmus red
Q.56 Select the odd figure out of the following figure series (a, b, c, d, e):
A. (c)
B. (b)
C. (a)
D. (d)
Answer : D. (d)
Q.57 The number of neutrons present in a nitrogen atom is:
A. 5
B. 14
C. 11
D. 7
Answer : D. 7
Q.58 Which of the following is NOT a radioactive element?
A. Titanium
B. Plutonium
C. Thorium
D. Uranium
Answer : A. Titanium
Q.59 According to the given Venn diagram, the number of boys who are neither athletes nor disciplined is:
A. 10
B. 1
C. 11
D. 7
Answer : A. 10
Q.60 Which Indian player won the Yonex US Open Badminton Tournament in 2017?
A. Sameer Varma
B. Ajay Jayaram
C. Srikanth Kidambi
D. HS Prannoy
Answer : D. HS Prannoy
Q.61 Read the given question and decide which of the following argument(s) is/are strong.
Should you work hard till you make your signature into an autograph?
Argument 1: Work until you no longer have to introduce yourself.
Argument 2: Work hard to become financially secure.
A. Neither argument 1 nor 2 is strong.
B. Both arguments 1 and 2 are strong.

C. Only argument 2 is strong.
D. Only argument 1 is strong.
Answer : D. Only argument 1 is strong.
Q.62 Peter belongs to Town A and Paul belongs to Town B. They start their journeys towards each other's towns following the same route at the same time. They meet somewhere on the way and continue with their journeys. After meeting Paul, Peter takes another 13.5 hours to reach his destination while Paul takes another 6 hours to reach Peter's town. If Peter travelled at the speed of 30 km/h, what was Paul's speed in km/h?
A. 42.5
B. 45
C. 40
D. 47.5
Answer : B. 45
Q.63 Atomic numbers of four elements are as follows: F(9), P(15), Cl(17), Ar(18). Which of the following two elements would be chemically similar?
A. F and Ar
B. Cl and P
C. F and P
D. F and Cl
Answer : D. F and Cl
Q.64 The below figure is embedded in one of the four answer figures, the correct figure containing the above problem figure is:
Answer Figures: A, B, C, D
A. B
B. C
C. D
D. A
Answer : C. D
Q.65 Two valves P and B can fill a sump in 37 (1/2) minutes and 45 minutes respectively. Both valves are opened. The sump will be filled in just 30 minutes, if valve B is turned off after:
A. 9 min
B. 6 min
C. 10 min
D. 5 min
Answer : A. 9 min
Q.66 NEET examination criteria:
1. Pass Grade 12 with min 50% in Biology, Physics, Chemistry group.
2. Completed 17 years as on 31-03-2018.
3. Opted for Biology, Physics and Chemistry in Grade 12.
Candidate 1: Ram's DOB is 14-05-2001, 40% marks in Math, Physics, Chemistry, Biology.
Candidate 2: Sham's DOB is 16-08-2000, 60% marks in Biology, Physics, Chemistry.
Who is eligible to write the NEET Exam?
A. Only candidate 2 is eligible.
B. Both candidate 1 and 2 are eligible.
C. Only candidate 1 is eligible.
D. Neither candidate 1 nor 2 is eligible.
Answer : A. Only candidate 2 is eligible.

Q.67 If the velocity of a body becomes two times its initial velocity, its kinetic energy becomes n times its initial kinetic energy. What is the value of n?

A. 6
B. 1/2
C. 3
D. 4

Answer : D. 4

Q.68 If the zeroes of the polynomial x^2 - ax + b are 3 and 4, then 'a' and 'b' are respectively equal to:

A. 7, 12
B. 4, 3
C. 3, 4
D. 12, 7

Answer : A. 7, 12

Q.69 Choose the correct figure that replaces the question mark (?).

Answer Figures: 1, 2, 3, 4

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

Answer : D. 3

Q.70 Which Indian actor won the Ordre des Arts et des Lettres (Order of Arts and Letters) from the French Government in 2016?

A. Anupam Kher
B. Amitabh Bachchan
C. Kamal Hassan
D. Nana Patekar

Answer : C. Kamal Hassan

Q.71 In the Modern Periodic Table, elements are arranged in:

A. increasing atomic number
B. decreasing atomic number
C. increasing atomic mass number
D. decreasing atomic mass number

Answer : A. increasing atomic number

Q.72 11 January 2018 is a Thursday. On which day will 11 June 2019 fall?

A. Sunday
B. Tuesday
C. Wednesday
D. Monday

Answer : B. Tuesday

Q.73 His greatest achievement in the field of religious reform was the setting up of the Brahmo Sabha and the Brahmo Samaj. Who is he?

A. Swami Dayananda Saraswati
B. Dr. Bhimrao Ramji Ambedkar
C. Swami Vivekananda
D. Raja Ram Mohan Roy

Answer : D. Raja Ram Mohan Roy

Q.74 Select the correct analogous pair from the given alternatives.

Bible : Quran :: ?

A. God : Man

B. Worship : Place

C. Temple : Pray

D. Apple : Orange

Answer : D. Apple : Orange

Q.75 What is the HCF of 36, 72 and 126?

A. 9

B. 36

C. 12

D. 18

Answer : D. 18

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