

RRB Staff and Welfare Inspector Exam 2015 Paper

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Answer Key

1. ANS. C

EXP. Sec. 13: Incorporation of registered Trade Unions

Every registered Trade Union shall be a corporate by the name under which it is registered, and shall have perpetual succession and a body common seal with power to acquire and hold both movable and immovable property and to contract, and shall by the said name sue and be sued.

2. ANS. A

EXP. The Industrial Disputes Act 1947 consists of 5 Schedules:

Schedule I - Industries which may be declared to be Public Utility Services

Schedule II - Matters within the jurisdiction of Labour Courts

Schedule III - Matters within the jurisdiction of Industrial Tribunals

Schedule IV - Conditions of Service for change of which Notice is to be given

Schedule V - Unfair Labour Practices

3. ANS. A

EXP. Section 4 deals with provisions related to employment of or work by, women prohibited during certain periods.

4. ANS. B

EXP. Sec. 17B - Full wages to Workman pending proceeding in High Courts

If a Labour Court, Tribunal or National Tribunal by its award directs reinstatement of any workman but the employer moves to a High Court/Supreme Court, against such award, the employer shall be liable to pay full wages to workman, during pendency of proceedings in the Higher Courts.

The payment of full wages includes any maintenance allowance that the workman is entitled to under applicable rules.

5. ANS. D

EXP. The existing wage limit for coverage under the Act effective from 01.01.2017 is Rs.21,000/- per month (Rs.25,000/- per month in the case of Persons with Disability).

6. ANS. D

EXP. Dependent means any of the following relatives of a deceased insured person, namely -

(i) a widow, a legitimate or adopted son who has not attained the age of 25 years, an unmarried legitimate or adopted daughter

(ii) a widowed mother;

(iii) if wholly dependent on the earnings of the insured person at the time of his death, a legitimate or adopted son or daughter who has attained the age of 25 and is infirm;

(iii) if wholly or in part dependent on the earnings of the insured person at the time of his death:

- a parent other than a widowed mother
- a minor illegitimate son, an unmarried illegitimate daughter or a daughter legitimate or adopted or illegitimate if married and a minor or if widowed and a minor,
- a minor brother or an unmarried sister or a widowed sister if a minor,
- a widowed daughter-in-law,
- a minor child of a pre-deceased son,
- a minor child of a pre-deceased daughter where no parent of the child is alive, or
- a paternal grand-parent if no parent of the insured person is alive.

7. ANS. D

EXP. Equal Remuneration Act, 1976 prohibits discrimination in fixing salary to men and women engaged in the work of similar nature.

8. ANS. C

EXP. Section 8 was substituted through the Maternity Benefit (Amendment) Act 2008 w.e.f. 15 April 2008.

9. ANS. C

EXP. Child includes a still-born child.

10. ANS. A

EXP. **Eligibility for Bonus (Sec. 8)**

Employee shall be entitled to bonus, provided he has worked for at least for 30 working days in that year.

11. ANS. B

EXP. The Payment of Bonus Amendment Bill, 2013 sought to omit Section 12.

12. ANS. B

EXP. Adolescent means a person who has completed his 14th year of age but has not completed his 18th year.

13. ANS. D

EXP. The maximum amount of Gratuity to be paid is Rs. 20,00,000.

14. ANS. C

EXP. **Forfeiture of Maternity Benefit (Sec. 18)**

If a woman works in another establishment, after she has been permitted by her employer to absent herself, she shall forfeit her claim to the maternity benefit.

15. ANS. C

EXP. As per Factories Act 1948, **Child** means a person who has not completed his 15 year of age.

16. ANS. A

EXP. The Powers of Inspectors is discussed in Section 9 of Factories Act 1948.

17. ANS. A

EXP. Following are the correct answers:

Mines Act – 1952

Equal Remuneration Act – 1976

Indian Trade Union Act – 1926

Payment of Gratuity Act – 1972

18. ANS. B

EXP. The relationship between the employer and employee in an organization is known as Industrial relationship.

19. ANS. C

EXP. **Section 16: Notice to be given of mining operations**

The owner/agent/manager of a mine shall, give notice to the following, at least 1 month before the commencement of any mining operation -

- Chief Inspector,
- Controller, Indian Bureau of Mines, and
- District Magistrate.

20. ANS. B

EXP. **Section 17 - Manager**

Every mine shall be under a sole Manager who shall have the prescribed qualification.

The owner/agent shall appoint the Manager. The owner/agent may appoint himself as Manager if having requisite prescribed qualification.

The Manager shall be responsible for the overall management, control, supervision and direction of mine.

Except in case of an emergency, the owner/agent shall give instructions only through Manager, affecting the fulfilment of his statutory duties, to a person, employed in a mine, who is responsible to the Manager.

21. ANS. B

EXP. The **ALU (Arithmetic Logic Unit)** of a computer performs arithmetic and logical operations on data. To efficiently carry out these operations, it requires fast access to data and intermediate results. This is where high-speed storage elements come into play.

Registers are small, high-speed storage locations within the CPU that hold data temporarily during processing. Registers provide the fastest way for the ALU to access the data it needs because they are located directly within the CPU, allowing for rapid read and write operations.

22. ANS. D

EXP. The 'Chilka lake region' lies in between the deltas of Mahanadi and Godavari.

23. ANS. D

EXP. As per the data provided by the World Economic Forum:

- China and India are the top two producers, accounting for more than half of the global total.
- Just 10 countries are responsible for almost 85% of the world's rice production.
- All the top 10 producers are located in Asia, except for Brazil.

24. ANS. A

EXP. Guwahati is an important city situated at the foothills of Shillong plateau. It is located on the bank of river Brahmaputra in Assam.

25. ANS. B

EXP. Mount Everest is situated in the Himalayas, on the border between Nepal and the Tibet Autonomous Region of China. It is the highest mountain in the world, with a peak that reaches approximately 8,848 meters (29,029 feet) above sea level.

26. ANS. C

EXP. Arunachal Pradesh, situated in the northeastern part of India is 83,743 sq km in area and has a long international border with Bhutan to the west, China to the north and north-east, and Myanmar to the east.

27. ANS. A

EXP. Post-independence, first 3 gallantry awards namely Param Vir Chakra, Maha Vir Chakra and Vir Chakra were instituted by the Government of India on 26th January, 1950 which were deemed to have effect from the 15th August, 1947.

Thereafter, other three gallantry awards i.e. Ashoka Chakra Class-I, Ashoka Chakra Class-II and Ashoka Chakra Class-III were instituted by the Government of India on 4th January, 1952, which were deemed to have effect from the 15th August, 1947. These awards were renamed as Ashoka Chakra, Kirti Chakra and Shaurya Chakra respectively in January, 1967.

These gallantry awards are announced twice in a year - first on the occasion of the Republic Day and then on the occasion of the Independence Day. Order of precedence of these awards is the Param Vir Chakra, the Ashoka Chakra, the Mahavir Chakra, the Kirti Chakra, the Vir Chakra and the Shaurya Chakra.

28. ANS. D

EXP. The official residence of US President is the White House.

29. ANS. C

EXP. Ramesh Chandra Lahoti was the 35th Chief Justice of India.

Gopal Ballav Pattanaik served as 32nd Chief Justice of India.

Vishweshwar Nath Khare is a retired Indian judge who served as the 33rd Chief Justice of India.

30. ANS. D

EXP. Let's Rahul Age is x . So, Sachin's Age is $x - 7$.

As per given conditions:

$$\text{Sachin Age/Rahul Age} = 7/9 = (x - 7)/x = 7/9$$

This implies $x = 31.5$

Therefore, Sachin's Age is 24.5 years.

31. ANS. B

EXP. Let the present ages of 3 persons be $4x$, $7x$ and $9x$.

As per the given conditions:

$$4x + 7x + 9x - 24 = 56$$

$$20x = 80$$

$$x = 4$$

Therefore, the respective ages are – 16, 28 and 36 years.

32. ANS. B

EXP. Perimeter of Rectangle = $2(3x + 2x) = 10x$ km

Speed = 12 km/hr = 200m/min

Distance covered while doing taking 1 round = $200 \times 8 = 1600$ m

So, $10x = 1600$

$$x = 160$$

Length = 480 m and Breadth = 320 m

Area = $480 \times 320 = 153600$ sqm

33. ANS. D

EXP. Let Side of square = x

Area = x^2 sq units

False side measurement = $1.02x$

Area = $1.0404x^2$ sq units

Excess area = $0.0404x^2$ sq units

Percentage excess = $\frac{0.0404x^2}{x^2} \times 100 = 4.04\%$

34. ANS. B

EXP. Let Perimeter be the $5x$ and breadth be x . Also y be the length of rectangle.

Then, $2(x + y) = 5x$

or $2y = 3x$

or $y = \frac{3}{2}x$

Area = $x \times \frac{3}{2}x = 216$

or $x^2 = 144$

or $x = 12$ cm

Length = $\frac{216}{12} = 18$ cm

35. ANS. A

EXP. Runs scored in first 10 overs = $3.2 \times 10 = 32$

Remaining runs = $282 - 32 = 250$

Required run rate = $\frac{250}{40} = 6.25$

36. ANS. B

EXP. Average age of family = $\frac{2 \times 67 + 2 \times 35 + 3 \times 6}{7} = \frac{222}{7} = 31 \frac{5}{7}$ years

37. ANS. A

EXP. Next term = $25 + 16 = 41$

38. ANS.

EXP. The series is as $(n + 1)^3 - 1$

So, Next term = $8^3 - 1 = 511$

39. ANS. A

EXP. Third term = $\frac{\text{Second term}}{\text{First term}}$

Next term = $\frac{56}{7} = 8$

40. ANS. A

EXP. The given series is the square of prime numbers.

Missing term = $7^2 = 49$

41. ANS. D

EXP. Next term = $59 \times 2 + 4 = 122$

42. ANS. B

EXP. The series will be

ccbbbaaacccbbbaac

43. ANS. A

EXP. The series will be:

bca a b c aabc a a b caa.

44. ANS. B

EXP. Q is the Football player.

45. ANS. C

EXP. R is the Hockey Player

46. ANS. C

EXP. T is the Chess player

47. ANS. C

EXP. Since P and S are unmarried ladies. R is the wife of T.

48. ANS. D

EXP. P, R and S are three ladies in the group.

49. ANS. C

EXP. The Trade Union Act, 1926 provides the legal framework for the registration and regulation of trade unions in India. It outlines the rights and responsibilities of trade unions, including their registration process, the rights of union members, and the legal protections for trade unions.

50. ANS. B

EXP. **Section 49. Welfare officers**

(1) In every factory wherein 500 or more workers are ordinarily employed the occupier shall employ in the factory such number of welfare officers as may be prescribed.

(2) The State Government may prescribe the duties, qualifications and conditions of service of officers employed under sub-section (1).

51. ANS. C

EXP. Section 40B deals with the appointment of a Safety Officer.

52. ANS. C

EXP. **Safety Officers (Sec. 40B)**

Safety Officers must be employed in factories that meet either of the following criteria:

- the factory employs 1000 or more workers; or
- the State Government determines that a manufacturing process or operation in the factory poses risks such as bodily injury, poisoning, disease, or other health hazards to the workers.

53. ANS. A

EXP. Section 22 provides for the Prohibition of strikes and lock-outs.

54. ANS. A

EXP. The distinction between an "employee" and a "worker" is often drawn based on the nature and extent of the relationship with the employer.

The correct answer is option (A) - Mutuality of Obligations. This concept is a key requirement for the definition of an employee. It implies that the employer is obligated to provide work, and the employee is obligated to perform the work when it is offered. This mutual commitment is essential to establish an employment relationship.

55. ANS. B

EXP. Option B is the correct answer.

Types of Rates

The appropriate Government may fix -

- Minimum rate of wages for time work (minimum time rate)
- Minimum rate of wages for piece work (minimum piece rate)
- Minimum rate of remuneration to apply in the case of employees employed on piece work for the purpose of securing to such employees a minimum rate of wages on a time work basis (guaranteed time rate)
- Minimum rate (whether a time rate or a piece rate) to apply in substitution for the minimum rate which would otherwise be applicable, in respect of overtime work (overtime rate).

56. ANS. C

EXP. The correct answer is option C – Employees State Insurance Act 1948.

57. ANS. D

EXP. **Section 33C** of Industrial Disputes Act 1947 deals with the recovery of money due from an employer.

58. ANS. C

EXP. **Section 16 - Inspectors to be public servants**

Every Inspector appointed under this Act shall be deemed to be a public servant within the meaning of section 21 of the Indian Penal Code.

59. ANS. A

EXP. **Section 12 - Cessation of membership**

A member of the Corporation, Standing Committee or Medical Benefit Council shall cease to be a member of that body if he fails to attend 3 consecutive meetings. Also, he shall cease to be a member on becoming a Minister or Speaker or Deputy Speaker of the House of the People or Deputy Chairman of the Council of States or when he ceases to be a Member of Parliament.

60. ANS. C

EXP. As per the Workmen's Compensation (Amendment) Act, 2009, "workmen" word has been substituted with the "employees".

61. ANS. B

EXP. **Section 31:** Expenditure by Central Government to be treated as a loan - Omitted by the Employees' State Insurance (Amendment) Act, 1966 (44 of 1966). s. 12 (w.e.f. 17-6-1967).

62. ANS. B

EXP. As per Workmen's Compensation Act 1923, "minor" means a person who has not attained the age of 18 years.

63. ANS. B

EXP. **Section 5: Time of Payment of Wages**

The wages of every person employed upon or in:

- (a) any railway, factory or industrial or other establishment upon or in which not less than 1000 persons are employed, shall be paid before the expiry of the 7th day;
- (b) any other railway, factory or industrial establishment, shall be paid before the expiry of the 10th day,

after the last of the wage period in respect of which the wages are payable.

64. ANS. B

EXP. **Gratuity** is a lump sum payment made by an employer to an employee as a reward for the employee's past service when the employment is terminated. It is typically given in recognition of the employee's long-term service.

65. ANS. A

EXP. As per the judgment of Supreme Court in September 2022, private school teachers who have retired since April 1997 and completed five years of service will be entitled for the gratuity.

66. ANS. B

EXP. Section 19 of Payment of Wages Act 1936 - Power to recover from employer in certain cases - Omitted by the Payment of Wages (Amendment) Act, 1964 (53 of 1964) - w.e.f. 1-2-1965.

67. ANS. C

EXP. Option C will not be a basis for bridging a gap in continuity.

68. ANS. D

EXP. As per Industrial Disputes Act 1947,

Workman means any person (including an apprentice) employed in any industry to do any manual, unskilled, skilled, technical, operational, clerical or supervisory work. But it DOES NOT include:

- who is subject to the Air Force Act, 1950, or the Army Act, 1950, or the Navy Act, 1957; or
- who is employed in the police service or as an officer or other employee of a prison; or
- who is employed mainly in a managerial or administrative capacity; or
- who, being employed in a supervisory capacity, draws wages exceeding Rs 10,000 per mensem or exercises.

2010 Amendment

As per Amendment in 2010, Supervisors drawing wages not exceeding Rs. 10,000 per month are covered within the definition of workmen. Earlier this limit was Rs 1,600 per month.

69. ANS. C

EXP. Section 17-B of the Industrial Disputes Act, 1947 deals with the Payment of full wages to workman pending proceedings in higher court.

70. ANS. A

EXP. Option A is the correct answer.

An **Operating System (OS)** is a collection of software that manages computer hardware and software resources and provides common services for computer programs. It is responsible for managing the computer's memory, processing, software and hardware, and ensuring that different programs and users running at the same time do not interfere with each other.

71. ANS. A

EXP. Card reader is an example of batch operating system.

72. ANS. A

EXP. Insert operation adds a new item to a list or database. By adding a new element, the length of the list increases. This is the operation specifically designed to increase the length of a list.

73. ANS. C

EXP. As per Right to Information Act 2005,

The "competent authority" means—

- (i) the Speaker in the case of the House of the People or the Legislative Assembly of a State or a Union territory having such Assembly and the Chairman in the case of the Council of States or Legislative Council of a State;
- (ii) the Chief Justice of India in the case of the Supreme Court;
- (iii) the Chief Justice of the High Court in the case of a High Court;

- (iv) the President or the Governor, as the case may be, in the case of other authorities established or constituted by or under the Constitution;
- (v) the administrator appointed under article 239 of the Constitution.

74. ANS. B

EXP. Option B is the correct answer.

The Right to Information (RTI) Act was passed by Parliament on 15th June 2005 and came into force on 12th October 2005.

75. ANS. D

EXP. **Section 7 – Disposal of request**

Where the information sought for concerns the life or liberty of a person, the same shall be provided within 48 hours of the receipt of the request.

76. ANS. B

EXP. In Tier-I, a Government servant will have to make a contribution of 10% of his basic pay plus DA, which will be deducted from his salary bill every month by the PAO concerned. The Government will make an equal matching contribution. However, there will be no contribution from the Government in respect of individuals who are not Government employees.

77. ANS. C

EXP. A Government servant can exit at or after the age of 60 years from the Tier-I of the Scheme. At exit, it would be mandatory for him to invest 40 per cent of pension wealth to purchase an annuity (from an IRDA-regulated Life Insurance Company) which will provide for annuity for the lifetime of the employee and his dependent parents/spouse. He would receive a lump-sum of the remaining pension wealth which he would be free to utilize in any manner. In the case of Government servants who leave the Scheme before attaining the age of 60, the mandatory annuitization would be 80% of the pension wealth.

78. ANS. A

EXP. Nathpa Jhakri is the largest hydropower project on the Sutlej River in the state of Himachal Pradesh in northern India.

79. ANS. C

EXP. Nagda is the world's largest producer of spun-dyed specialty fibre. It produces a wide range of Viscose Staple Fibre to suit customer needs in terms of length, denier and colour.

80. ANS. C

EXP. The term 'Tee' is connected to the Golf sport. A tee is a support base on which the golf ball is hoisted before it is hit by Golfstick.

81. ANS. B

EXP. Merdeka Cup is associated with football. The tournament is organized by Malaysia.

82. ANS. B

EXP. Rohit Sharma is the only batsman in ODI history to score more than one double century, having achieved the feat thrice.

83. ANS. C

EXP. Established in 1864, Eden Garden, Kolkata is the oldest and second-largest cricket stadium in India.

84. ANS. C

EXP. L. Sarita Devi, a boxer, refused to accept her Asian Games bronze medal in 2014 Incheon Games. This was a day after the judges, denied the Indian a place in the final of the 60 kg weight category.

85. ANS. D

EXP. Let father's age = x years

Then, son's age = $60 - x$ years

As per the question, $x - 6 = 5(60 - x - 6)$

or $x = 46$

Son's age = $60 - 46 = 14$

Son's age after 6 years = $14 + 6 = 20$ years

86. ANS. A

EXP. Let sales in sixth month = x

Then, $\frac{6435+6927+6855+7230+6562+x}{6} = 6500$

or $x = 4991$

87. ANS. B

EXP. Amount at the end of the year = $1600 \left(1 + \frac{5}{200}\right)^2 + 1600 \left(1 + \frac{5}{200}\right)$

= Rs. 3321

Interest = $3321 - 3200 = \text{Rs. } 121$

88. ANS. A

EXP. Let P be the principal amount

Then, $P(1.04)^2 - P - \frac{P \times 4 \times 2}{100} = 1$

or $P = \text{Rs. } 625$

89. ANS. B

EXP. Let total profit = Rs. 100

After paying to charity, A's share = $95 \times \frac{3}{5} = \text{Rs. } 57$

Thus, total profit = $\frac{100}{57} \times 855$

= Rs. 1500

90. ANS. B

EXP. A's investment = $6500 \times 6 = 39000$

B's investment = $8400 \times 5 = 42000$

C's investment = $10000 \times 3 = 30000$

Ratio of investment = $39000 : 42000 : 30000 = 13 : 14 : 10$

For managing A received = $5\% \text{ of } 7400 = \text{Rs. } 370$

Balance = $7400 - 370 = 7030$

B's profit = $\frac{14}{37} \times 7030 = \text{Rs. } 2660$

91. ANS. C

EXP. Let marks obtained by both the student were x and $x + 9$ respectively.

$$\text{Then } \frac{x+9}{x+x+9} \times 100 = 56$$

$$\text{or } x = 33$$

Marks are 33 and 42.

92. ANS. D

$$\text{EXP. } 0.6x = 420$$

$$\text{or } x = \frac{420}{0.6} = 700$$

93. ANS. A

EXP. The series is abadna/abadna/abadna/ab.

The pattern 'abadna' is repeated

94. ANS. C

EXP. The correct option is C aammnn.

The series follows man/man/man/man/man.

Thus, the missing terms are aammnn.

95. ANS. D

EXP. The correct option is C bacab

The series is bbccaa / ccaabb / aabbcc.

The letter pairs move in a cycle order.

96. ANS. B

EXP. Option B is the correct answer.

$$P + 1 = Q$$

$$I - 1 = H$$

$$C + 1 = D$$

$$T - 1 = S$$

$$U + 1 = V$$

$$R - 1 = Q$$

$$E + 1 = F$$

With the same logic, CQPVTDS is the correct answer.

97. ANS. A

EXP. Option A is the correct answer.

$$G + 6 = M$$

$$J + 6 = P$$

With the same logic, WZ is the correct answer.

98. ANS. A

EXP. Option A is the correct answer.

$$K + 1 = M$$

$$L + 1 = N$$

$$M + 1 = O$$

$$N + 1 = P$$

With the same logic, option A is the correct answer.

99. ANS. D

EXP. 26 is not a cube of any integer.

124 is not a cube of any integer.

728 is not a cube of any integer.

64 is the cube of 4.

Clearly, 64 stands out because it is a perfect cube (4^3), while the others are not perfect cubes.

100. ANS. B

EXP. The correct answer is – 4, 6, 6, 4.