



(Papers) RRB Group D : Exam Paper & Answer Key
Date: 02 Nov 2018 Shift-1 (General Science)

Q1. The pH of pure water is

- a. 2
- b. 6
- c. 7
- d. 8

Q2. A lunar eclipse' occurs when

- a. The moon comes between the earth and the sun
- b. The earth comes between the sun and the moon
- c. The sun comes between the earth and the moon
- d. The sun, the earth and the moon make an angle of 90°

Q3. Which of the following devices connects the computers and works based on telephone lines ?

- a. Antenna
- b. UPS
- c. CPU
- d. Modern

Q4. What is mixing an acid with water that results in a decrease in the concentration of ions per unit volume called?

- a. Dilution
- b. Neutralisation
- c. Acidification
- d. Concentration

Q5. Barometer is related to Pressure, in the same way as Seismograph is related to

- a. Flood
- b. Earthquake
- c. Humidity
- d. Temperature

Q6. Which of the following is an example of a metal that needs to be stored under oil?

- a. Potassium
- b. Gold
- c. Iron
- d. Silver

Q7. Which of the following statements is/are true?

- A. Out of 124 elements, 22 are non-metals, and other are metals.
- B. Every ore is a mineral but every mineral is not an ore

- a. Only B is true
- b. A and B are both true
- c. Only A is true
- d. A and B are both false

Q8. In negative acceleration, the velocity of a body

- a. remains constant
- b. is zero
- c. decreases
- d. increases

Q9. The work done in moving a charge from one point to the other is 20 J. If the potential difference between the points is to 10 V, the charge is:

- a. 4.0 C
- b. 2.0 C
- c. 0.5 C
- d. 1.0 C

Q10. A car falls off a ledge and drops to the ground in 0.7 s. (let $g=10\text{ms}^{-2}$). What is its speed on striking the ground?

- a. 7 ms⁻¹
- b. 8 ms⁻¹
- c. 4 ms⁻¹
- d. 7 ms⁻¹

Q11. In an electric circuit, Rheostat is often used to change the in the circuit.

- a. temperature
- b. resistance
- c. electric current
- d. potential difference

Q12. Which tissue is responsible for transport of materials away from the root?

- a. Ground tissue
- b. Cambium
- c. Phloem
- d. Xylem

Q13. If the edge of a cube is halved, then its volume reduces to times the actual volume.

- a. 1/3
- b. 1/4
- c. 1/8
- d. 1/2

Q14. A solid metallic hemisphere with radius r is melted and cast into a solid right circular cone with the radius of the base = r . What is the ratio of their curved surface areas?

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- a. $5/\sqrt{2}$
- b. $2/\sqrt{5}$
- c. $3/2$
- d. $5/2$

Q15. Genetic information is carried by long chains of molecules. What are these molecules called?

- a. Phosphates
- b. Nitrogenous Bases
- c. RNA
- d. Nucleotides

Q16. Astronauts in space communicate with each other by radio links because

- a. sound waves can't travel in space
- b. sound waves have low frequency
- c. sound waves travel slowly in space
- d. sound waves travel quickly in space

Q17. The kinetic energy acquired by a mass (m) in traveling distance starting from rest under the action of constant force is directly proportional to:

- a. $1/m$
- b. m°
- c. m
- d. $1/\sqrt{m}$

Q18. An element has electronic configuration 2,8,6. It belongs to

- a. 6 group and 2 period
- b. 16 group and 3 period
- c. 1 group and 1 period
- d. 2 group and 2 period

Q19. A 5Ω resistance wire is doubled on it. Calculate the new resistance of the wire.

- a. 1.25Ω
- b. 2.25Ω
- c. 1.5Ω
- d. 1.00Ω

Q20. Choose the option that is NOT true about vascular system.

- a. Blood is only white vascular connective tissue.
- b. The vascular system forms about 7-8% of the body weight.
- c. There is about 6.8 liters of blood in an adult person
- d. Life span of human RBCs is 115-120 days.

Q21. Tooth decay starts when the pH of the mouth is

- a. more than 5.5
- b. less than 5.5
- c. less than 4.5
- d. more than 4.5

Q22. What is the third proportional to 9 and 12?

- a. 19
- b. 16
- c. 18
- d. 17

Q23. The substances whose odour changes in acidic or basic media are called

- a. Natural indicators
- b. Synthetic indicators
- c. Acid-base indicators
- d. Olfactory indicators

Q24. Which of the following statements is/are true/false about speed of sound in different media at 25°C ?

- A. In oxygen gas, the speed of sound is 316 m/s.
- B. In water (distilled), the speed of sound is 1498 m/s.



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- a. Only A is true
- b. Neither A nor B are true
- c. Both A and B are true
- d. Only B is true

Q25. Transpiration takes place through the

- a. vascular bundles
- b. cortex
- c. stomata
- d. epidermis

ANSWER:

- 1. (c) 2. (b) 3. (a) 4. (a) 5. (b) 6. (a) 7. (a) 8. (c) 9. (b) 10. (d)
11. (b) 12. (d) 13. (c) 14. (b) 15. (d) 16. (a) 17. (b) 18. (b) 19.
(a) 20. (a) 21. (b) 22. (b) 23. (d) 24. (c) 25. (c)**



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