



(Papers) RRB Group D : Exam Paper & Answer Key
Date: 01 Oct 2018 Shift-3 (General Science)

Q1. What is the third proportional to 9 and 12?

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

Q2. 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

Q3. 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.

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

Q4. Transpiration takes place through the

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

Q5. The potential difference between the terminals of an electric heater is 60 V when it draws a current of 4 A from the 3 sources. What current will the heater draw if the potential difference is increased to 172.5 V ?

- a. 10 A
- b. 24 A
- c. 8.5 A
- d. 11.5 A

Q6. Which of the following states that "properties of elements are a periodic function of their atomic number"?

- a. Dobereiner's triads
- b. Modern periodic law
- c. Newlands's law of octaves
- d. Mendeleev's periodic law

Q7. The relation between potential difference (V) and current (I) was discovered by:

- a. Pascal
- b. Tesla
- c. Newton
- d. Ohm

Q8. A car, while moving, is facing a wind from the opposite direction. The work done by the wind on the car will be

.....

- a. Infinity
- b. Positive

- c. Zero
- d. Negative

Q9. The SI unit of power is

- a. Erg
- b. Kilowatt
- c. Joule
- d. Watt

Q10. There are 10 protons and 17 neutrons in the nucleus of an element. What is its mass number?

- a. 27
- b. 7
- c. 17
- d. 10

Q11. Which of the following statements is/are true/false?

- A. An acid which is completely ionized into ions and produces large number of ions
 - B. An acid which is partially ionized in water and produces less number of ions
-
- a. Both A and B are true
 - b. Only B is true
 - c. Both A and B are false
 - d. Only A is true

Q12. The SI unit of pressure is.....

- a. Newton
- b. Ohm
- c. Pascal
- d. Dyne

Q13. Which of the following pairs do not have same SI unit?

- a. Displacement and distance
- b. Force and pressure
- c. Work and energy
- d. Speed and velocity

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Q14. The atomic mass of aluminum is 27. The number of moles present in 81 grams of aluminum is

- a. 4
- b. 5
- c. 2
- d. 3

Q15. What is the SI unit of speed?

- a. m/s
- b. km/h
- c. m/minute
- d. km/s

Q16. An object moving with a uniform velocity of 4ms^{-1} possesses kinetic energy of 120 J. Find the mass of the object.

- a. 15 N
- b. 15 W
- c. 15 kg
- d. 15 Pa

Q17. Which of the following is not a noble gas?

- a. oganesson
- b. Argon
- c. Xenon
- d. Chlorine

Q18. When light travels from a denser medium to a rarer medium, what is the effect on its speed?

- a. Increases
- b. No change
- c. Decreases
- d. Decreases and then increases

Q19. In which of the following phenomena can many plants be grown from one parent in disease-free conditions?

- a. Sexual reproduction
- b. Tissue culture
- c. Spore formation
- d. Regeneration

Q20. The system transports fluids from one place to another.

- a. respiratory
- b. vascular
- c. nervous
- d. excretory

Q21. Which of the following tissues is composed of mainly dead cells?

- a. Parenchyma
- b. Collenchyma
- c. Aerenchyma
- d. Xylem

Q22. Aluminium metal is extracted only by:

- a. Electrolysis
- b. Calcination
- c. Reduction
- d. Oxidation

Q23. Halogens contains

- a. 2 gases,two liquids and 1 solid
- b. 2 gases and 3 solids
- c. 2 gases,one liquid and 2 solids
- d. 3 gases and 3 solids

Q24. A solution contains 32 g of common salt in 320 g of water. Calculate the concentration in terms of mass by mass percentage of the solution.

- a. 9.09 %
- b. 13.05 %



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- c. 9.09 g
- d. 8.84%

Q25. In diamond, each carbon atom is bonded to:

- a. two other carbon atoms
- b. three other carbon atoms
- c. four other carbon atoms
- d. five other carbon atoms

ANSWER:

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



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