



(Papers) RRB Group D : Exam Paper & Answer Key
Date: 03 Oct 2018 Shift-2 (General Science)

Q1. 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

Q2. 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

Q3. 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.

Q4. 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

Q5. In the Modern Periodic Table, which period contains 32 elements?

- a. Period 6
- b. Period 3
- c. Period 4
- d. Period 5

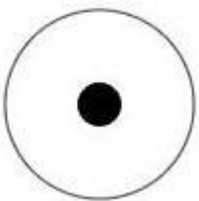
Q6. Which of the following objects would possess potential energy?

- a. Raised hammer
- b. Blowing wind
- c. A rolling stone
- d. Moving bullet

Q7. Which of the following regions is the original habitat of the 'Toda Tribe'?

- a. Kurnaun Hills
- b. Nilgiri Hills
- c. Khasi Hills
- d. Gharwal Hills

Q8. The given symbol represents element.



- a. Gold
- b. Hydrogen
- c. Mercury
- d. Carbon

Q9. In the Modern Periodic Table, which group has a completely filled valence shell and chemically inactive elements?

- a. 16
- b. 18
- c. 15
- d. 17

Q10. When light travels from a rarer medium to a denser medium, it

- a. speed remains the same
- b. speeds down then up
- c. speeds down
- d. speeds up

Q11. What type of tissue are our bones?

- a. parenchyma
- b. Permanent tissue
- c. Epidermic
- d. Connective

Q12. There are three groups G1, G2 and G3 in a College with 20, 40 and 60 students respectively. The average marks obtained by groups G1, G2 and G3 are 50%, 60% and 70% respectively. Find the average marks of the entire college?

- a. 60%
- b. 63%
- c. 62%
- d. 61%

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Q13. For which of the following elements, the symbol consists of only one letter?

- a. Calcium
- b. Chlorine
- c. Carbon
- d. Copper

Q14. Find the three prime numbers such that product of the first two is 1147 and the product of the last two numbers is 1517?

- a. 21,47,61
- b. 31,37,61
- c. 21,37,41
- d. 31,37,41

Q15. An object of mass 12 kg is at a certain height above the ground. If the potential energy of the object is 480 J. find the height at which the object is with respect to the ground. Given, $g = 10 \text{ ms}^{-2}$

- a. 5 m
- b. 8 m
- c. 4 m
- d. 6 m

Q16. 1 kWh = ?

- a. 360000 J
- b. 3600 J
- c. 36000 J
- d. 3600000 J

Q17. The SI unit of 'g' is same as that of acceleration, that is

.....

- a. ms^1
- b. ms^{-2}

- c. ms^2
- d. ms^{-1}

Q18. What does a light year measure?

- a. Velocity
- b. Distance
- c. Energy
- d. Power

Q19. connects bones.

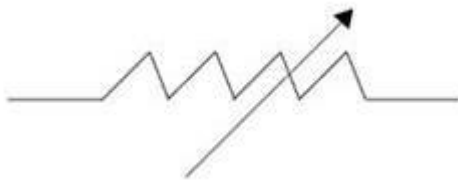
- a. Ligament
- b. Areolar
- c. Tendon
- d. Cartilage

Q20. A solution contains 31 g of common salt in 320 g of water. Calculate the concentration in terms of mass by mass percentage of the solution.

- a. 9.60 g
- b. 8.83%
- c. 9.09%
- d. 9.60%

Q21. Which of the following is NOT based on Archimedes' principle?

- a. Lactometers
- b. Hydrometers
- c. Odometers
- d. Submarines



Q22.

The given symbol represents electrical component.



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- a. Rheostat
- b. Electric bulb
- c. Ammeter
- d. Resistor

Q23. The formula to determine the height of the rocket above the ground at any time during the rocket's flight is given by:

$h = 119t - 7t^2$ where t = the time, in seconds, that has elapsed since the rocket was launched, and h = the height, in meters, of the rocket above the ground at time t . The value of h was 0 when the rocket hit the ground. How many seconds after the rocket was launched did it hit the ground?

- a. 17
- b. 10
- c. 7
- d. 0

Q24. Which one of the following is highly exothermic?

- a. Dissolving copper sulphate in water
- b. Dissolving bleaching powder in water
- c. Dissolving washing soda in water
- d. Dissolving sulphuric acid in water

Q25. Which of the following. pairs have the same SI units?A

- a. Force and pressure
- b. Force and distance
- c. Work and energy
- d. Momentum and force

ANSWER

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



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