



(Papers) RRB Group D : Exam Paper & Answer Key
Date: 12 Oct 2018 Shift-2 (General Science)

Q1. 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?

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

Q2. Genetic information is carried by long chains of molecules. What are these molecules called?

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

Q3. 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

Q4. 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. $1/\sqrt{m}$

Q5. Non-metals are generally more electronegative due to their:

- a. large number of electrons.
- b. smaller atomic radii
- c. smaller atomic number.
- d. smaller ionization energy.

Q6. The property of metals wherein they can be beaten into thin sheets is called:

- a. expansion
- b. malleability
- c. ductility
- d. conduction

Q7. Mass / Volume =

- a. Pressure
- b. Area
- c. Density
- d. Force

Q8. tissue is found beneath the skin, around the kidneys and between the internal organs.

- a. Ligament
- b. Areolar
- c. Tendons
- d. Adipose

Q9. Which of the following is reared for its fleece/fiber?

- a. Alpaca
- b. Alabama
- c. Apache
- d. Alluvial

Q10. Find the odd one out: Chicken pox, Rubella, Flu, Meningitis

- a. Chicken pox
- b. Rubella
- c. Flu
- d. Meningitis

Q11. What is the technology used in a compact disc?

- a. Electrical
- b. Laser
- c. Electro magnetic
- d. Aeronautical

Q12. How many groups are there in the modern periodic table?

- a. 9
- b. 18
- c. 21
- d. 8

Q13. A body of mass m moving with velocity 4 km/h collides with a body of mass $3 m$ at rest. Now the coalesced mass starts to move with a velocity of

- a. 4 km/h
- b. $4/3 \text{ km/h}$
- c. 1 km/h
- d. 2 km/h

Q14. 100. The function of BIOS is to

- a. Initialize the system hardware components
- b. Update the system
- c. Ensure system performance

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- d. Save the system from crashing

Q15. 'Gallon' is commonly used

- a. To refer to speed.
- b. To refer to a container.
- c. As a measure of volume.
- d. To express containers in terms of barrel.

Q16. As compared to pure water, a body in salty water will :

- a. Sink more
- b. Sink less
- c. Remain same
- d. Depends on the Way the body is reed

Q17. Which of the following is a colloidal solution ?

- a. Vinegar solution
- b. Paint
- c. Muddy water
- d. Sugar solution

Q18. Fluid part of Blood after removal of Corpuscles is called :

- a. Vaccine
- b. Lymph
- c. Serum
- d. Plasma

Q19. Group of cells having a common origin and performing similar functions are called :

- a. Tissues
- b. Organs
- c. Organ systems
- d. None of the above

Q20. A mixture of 40 litres of milk and water contains 10% of water. How much water should be added to this mixture so that the new mixture contains 20% water ?

- a. 4 litres
- b. 5 litres
- c. 7.5 litres
- d. None of the above

Q21. The longest cell in human body is :

- a. Skeletal cells
- b. RBC
- c. Nerve cells
- d. WBC

Q22. On applying a constant force to a body, it moves with uniform_ :

- a. Momentum
- b. Speed
- c. Velocity
- d. Acceleration

Q23. The persistence of sound in an auditorium is due to :

- a. Single reflection of sound
- b. Repeated reflections of sound
- c. Repeated refraction of sound
- d. Vibration of objects placed in the auditorium

Q24. Which among the following is NOT present in animal cell ?

- a. Mitochondria
- b. Chloroplast
- c. Nucleolus
- d. Plasma membrane

Q25. Tendon connects :



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- a. Bone to bone
- b. Muscles to bone
- c. Muscles to muscles
- d. Nerve to muscles

ANSWER:

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



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