

## Railway Recruitment Board Exam - 2008 Solved Question paper

**1. When a ray of light passes from an optically denser medium to a rarer medium, it**

- (a) Remains undeviated
- (b) Bends towards normal
- (c) Bends away from normal
- (d) None of these

**2. Who is the author of "Anandmath" ?**

- (a) Rabindranath Tagore
- (b) Bankim chandra Chattopadhyaya
- (c) Sarojini Nayadu
- (d) Jyotiba Phule

**3. Thimpu is the capital of -**

- (a) Nepal
- (b) Bhutan
- (c) Thailand
- (d) Myanmar

**4. The time period of a seconds pendulum is**

- (a) 1 second
- (b) 4 seconds
- (c) 3 seconds
- (d) 2 seconds

**5. The nuclear fuel in the sun is**

- (a) Helium
- (b) Uranium
- (c) Hydrogen
- (d) Oxygen

**6. The second's hand of a watch is 2 cm long. The velocity of its tip is**

- (a) 0.21 cm/sec.
- (b) 2.1 cm/sec.
- (c) 21 cm/sec.
- (d) None of these

**7. In diesel engine, ignition is caused by**

- (a) Spark
- (b) Automatic starter
- (c) Compression
- (d) Friction

**8. The mass-energy equivalence, relationship  $E = mc^2$  was propounded by**

- (a) Max Plank
- (b) Einstein
- (c) Newton
- (d) Hertz

**9. The filament of bulb is made of**

- (a) Tungsten
- (b) Iron
- (c) Nichrome
- (d) Carbon

**10. Anti-knocking can be lessened by**

- (a) Iso Octane
- (b) N Heptane
- (c) TEL
- (d) Benzene

**11. In which of the following oxidation shows a positive oxidation state.**

- (a) CO (b) N<sub>2</sub>O
- (c) NO (d) F<sub>2</sub>O

**12. Which of the following is used in photography?**

- (a) Silver Bromide (b) Sodium Bromide
- (c) Potassium Chloride (d) Sodium Sulphate

**13. Which of the following is used in accumulator cell?**

- (a) Copper (b) Iron
- (c) Lead (d) Zinc

**14. Choose the wrong statement :**

- (a) Single magnetic poles can exist
- (b) Magnetic poles are always of equal strength
- (c) Like poles repel each other
- (d) None of these

**15. Laws of electrolysis are given by:**

- (a) Farady (b) Maxwell
- (c) Lenz (d) Bohr

**16. Flemings left hand rule is used to fine out:**

- (a) Direction of magnetic field due to flow of current
- (b) Direction of induced current due to effect of magnetic field
- (c) Direction of motion of a current carrying conductor in magnetic field
- (d) None of these

**17. The pH of a neutral solution at 25°C is :**

- (a) 0 (b) 1.0
- (c) 7.0 (d) 1.4

**18. The raw material used for the manufacture of Portland cement is :**

- (a) Limestone and clay (b) Alumina, clay and gypsum
- (c) Gypsum and limestone (d) Gypsum and clay

**19. CaOCl<sub>2</sub> is the chemical formula for a compound commonly known as :(a) Soda Ash (b) Lime**

- (c) Bleaching Powder (d) Plaster of Paris

**20. The glass used for making laboratory apparatus is :(a) Pyrex glass (b) Hard glass**

- (c) Soft glass (d) Safety glass

**21. The iron produced in blast furnace is :**

- (a) Pig iron (b) Wrought iron

(c) Stainless steel (d) Steel

**22. Formation is a 40% solution of :**

- (a) Methanol (b) Methenal
- (c) Methanoic acid (d) None of these

**23. Which of the following is not an ore of aluminium :**

- (a) Cryolite (b) Feldspar
- (c) Bauxite (d) Azurite

**24. Rhombic monoclinic and plastic sulphur are:**

- (a) Isomers (b) Isotopes
- (c) Allotropes (d) Hydrides of sulphur

**25. The alkaline hydrolysis of oils or fats gives soap and :**

- (a) Glycerol (b) Ethenol
- (c) Glycol (d) Ethanoic acid

**26. The sight of a delicious food usually makes mouth watery. It is a :**

- (a) Hormonal response (b) Neural response
- (c) Optic response (d) Olfactory response

**27. Nitrogen fixing bacteria are normally found in :**

- (a) Parasitic plants (b) Epiphytic plants
- (c) Leguminous plants (d) Aquatic plants

**28. Powdery mildew of wheat is caused by:**

- (a) Bacteria (b) Virus
- (c) Fungi (d) Protozoans

**29. Septic sore throat is caused by :**

- (a) Bacteria (b) Virus
- (c) Fungi (d) Protozoans

**30. A person of blood group AB can give blood to :**

- (a) 'A' and 'B' (b) Only 'AB'
- (c) 'A', 'B' and 'O' (d) All of these

**31. Cell activities are controlled by :**

- (a) Chloroplast (b) Nitochondria

(c) Cytoplasm (d) Nucleus

**32. Which of the following helps eye to adjust the focal length of the eye lens :**

- (a) Cornea (b) Conjunctiva
- (c) Ciliary body (d) Iris

**33. When pollen of a flower is transferred to the stigma of the same plant, pollination type is referred to as :**

- (a) Autogamy (b) Allogamy
- (c) Xenogamy (d) Geitonogamy

**34. Respiration is a :**

- (a) Catabolic process (b) Anabolic process
- (c) Both of these (d) None of these

**35. The structural and functional unit of kidneys are :**

- (a) Neurons (b) Nephrons
- (c) Medula (d) None of these

**36. Which of the following enzymes is generally not present in adult human :**

- (a) Renin (b) Pepsin
- (c) Trypsin (d) Amylopsin

**37. The part of the plant which is responsible for carrying water and solutes from roots to various parts of plants is :**

- (a) Phloem (b) Xylem
- (c) Duodenum (d) Sclercids

**38. 'Widal test' is used for susceptibility of :**

- (a) Malaria (b) Typhoid
- (c) Cholera (d) Yellow fever

**39. Exchange of gases in plants takes place through :**

- (a) Stomata (b) Lenticels
- (c) Cuticle (d) All of these

**40. 'Lieutenant' in army is equivalent to following rank in navy :**

- (a) Lieutenant (b) Sub Lieutanant
- (c) Lieutenant Commander (d) None of these

**41. Pankaj Advani is associated with :**

- (a) Snooker (b) Golf
- (c) Shooting (d) Archery

**42. Which city in the world is known as the forbidden city :**

- (a) Aberdeen (b) Jerusalem
- (c) Mecca (d) Lhasa

**43. Rajeev Gandhi Khel Ratna Award carries a sum of :**

- (a) Rs. 3 lakhs (b) Rs. 5 lakhs
- (c) Rs. 1 lakh (d) Rs. 7 lakhs

**44. Who is known as 'Nightingale of India' :**

- (a) Asha Bhonsle (b) Begum Akhtar
- (c) Sarojini Naidu (d) Vijaylaxmi Pandit

**45. Which one of the following is not included in the UNESCO's list of world heritage site :**

- (a) Kaziranga National Park (b) Qutab Minar
- (c) Champaner Pavagarh (d) None of these

**46. Which of the following is not an electric resistant?**

- (a) Lead (b) Ebonite
- (c) Charcoal (d) Lac

**47. Which of the following is a complementary colour?**

- (a) Blue (b) Yellow
- (c) Magenta (d) Yellow and Magenta

**48. The velocity of sound increases in air by ..... for every degree Celsius increase of temperature.**

- (a) 60 m/sec. (b) 0.61 m/sec.
- (c) 60 ft/sec. (d) 0.61 km/sec.

**49. Henry is a unit of**

- (a) Capacity (b) Magnetic field
- (c) Inductance (d) Frequency

**50. The velocity of rotation of Earth is**

- (a) 28 km/min (b) 30 km/min

(c) 25 km/min (d) 39.5 km/min

**51. What is Hubble?**

- (a) Warship (b) Star
- (c) Telescope (d) Missile

**52. Which acid is normally found in lemon and grape fruits?**

- (a) Citric acid (b) Tartaric acid
- (c) Ascorbic acid (d) Lactic acid

**53. At which temperature Fahrenheit and Celsius show same reading?**

- (a) -400 (b) 00
- (c) -574.250 (d) 2730

**54. Limestone is metamorphosed to form**

- (a) Graphite (b) Quartz
- (c) Granite (d) Marble

**55. Rift valley is formed by**

- (a) Earthquake (b) Folding
- (c) Faulting (d) All of these

**56. If a piece of ice at 00C is mixed with water at 00C, then**

- (a) Whole ice melts (b) Some ice melts
- (c) No ice melts (d) Temperature decreases

**57. Mettur Dam is built on the river**

- (a) Krishna (b) Cauvery
- (c) Narmada (d) Mahanadi

**58. Mahendra Giri peak is situated in the**

- (a) Eastern Ghats (b) Western Ghats
- (c) Shiwaliks (d) Vindhya

**59. In what time a sum will double itself at 20% per annum rate of interest?**

- (a) 2 years (b) 3 years
- (c) 4 years (d) 5 years

**60. The famous Dilwara Temple is situated in**

- (a) Madhya Pradesh (b) Maharashtra  
(c) Gujarat (d) Rajasthan

**61. Pneumonia affects**

- (a) Lungs (b) Tongue  
(c) Liver (d) Kidney

**62. The chemical name of Vitamin A is**

- (a) Retinol (b) Jhiamin  
(c) Biotic (d) Riboflavin

**63. A 130m long train crosses a bridge in 30 seconds at 45 kmph. The length of the bridge is**

- (a) 200m (b) 225m  
(c) 245m (d) 250m

**64. By selling an article at some price a person gains 10%. If the article is sold at twice of the price, the gain percent will be**

- (a) 20% (b) 60%  
(c) 100% (d) 120%

**65. Atoms are electrically charged as**

- (a) Positive (b) Negative  
(c) Bi-positive (d) Neutral

**66. Ionic bond exists in**

- (a) KCl (b) H<sub>2</sub>O  
(c) NH<sub>3</sub> (d) Cl<sub>3</sub>

**67. Which force is required to increase the momentum of an object to 40 kg m/s in 5 seconds?**

- (a) 2N (b) 4N  
(c) 8N (d) 10N

**68. The river that does not form delta is**

- (a) Mahanadi (b) Tapti  
(c) Krishna (d) Cauvery

**69. The ratio of the radius and height of a cone is 5 : 12, respectively. Its volume is 23147cc. Find its slant height.**

- (a) 13cm (b) 14cm  
(c) 17cm (d) 26cm

**70. 27 students took part in a debate of a college. What is the probability that at least 3 of them have their birth days in the same month?**

- (a)  $\frac{3}{27}$  (b)  $\frac{3}{12}$
- (c) 12 (d) 1

**71. Who was the first winner of Dada Saheb Phalke Award?**

- (a) B.N.Sarkar (b) Prithvi Raj Kapoor
- (c) Devika Rani (d) Kanan Devi

**72. How many members are nominated by the President in the Rajya Sabha?**

- (a) 12 (b) 15
- (c) 10 (d) 20

**73. Who was the founder of Brahma Samaj?**

- (a) Raja Rammohan Roy (b) Aurobindo Ghosh
- (c) Vivekanand (d) Dyanand Saraswati

**74. The Parliamentary System in India has been taken from**

- (a) America (b) Britain
- (c) Australia (d) Ireland

**75. The electric supply in India was first started in**

- (a) Kolkata (b) Chennai
- (c) Mumbai (d) Darjeeling

**76. Bhatnagar Prize is given in the field of**

- (a) Peace (b) Music and dance
- (c) Science & technology (d) Fine arts

**77. Who discovered the solar system?**

- (a) Copernicus (b) Kepler
- (c) Aryabhatta (d) Newton

**78. The Nobel Prize in Economics was started in**

- (a) 1901 (b) 1936
- (c) 1957 (d) 1967

**79. In India, the second largest in**

- (a) Bengali (b) Urdu
- (c) Telugu (d) Marathi



**80. The first Asian Games were held in**

- (a) Manila (b) Tokyo
- (c) Jakarta (d) New Delhi

**81. The Islam was established in**

- (a) 7th A.D. (b) 5th A.D.
- (c) 3rd B.C. (d) 5th B.C.

**82. The Olympic Games 2012 will be held in**

- (a) Moscow (b) Paris
- (c) New York (d) London

**83. The main factor of air pollution is**

- (a) Lead (b) Copper
- (c) Zinc (d) Gold

**84. The bauxite ore is found in**

- (a) Musabani (b) Karnapura
- (c) Koderma (d) Palamu

**85. The first fertilizer plant in India was established in**

- (a) Trombay (b) Nangal
- (c) Alwaye (d) Sindri

**86. Which of the following had strong navy?**

- (a) Bahmani (b) Chalukya
- (c) Chola (d) Rashtrakuta

**87. The last king of Maurya Dynastry was**

- (a) Brihдарth (b) Kunal
- (c) Samprati (d) Salishuk

**88. How will the image formed by a convex lens be affected if the central part of the lens is covered by black paper?**

- (a) Remaining part of the lens will form no image
- (b) The central position of the image is absent
- (c) There will be no effect
- (d) The full image will be formed with lessened brightness

**89. The force between two parallel wires conducting current is used to define**

- (a) Ampere (b) Coulomb  
(c) Volt (d) Newton

**90. A body is thrown vertically upward and it reaches 10m high. Find the velocity with which the body was thrown? ( $g = 9.8 \text{ m/s}^2$ )**

- (a) 10 m/sec. (b) 18 m/sec.  
(c) 14 m/sec. (d) 7 m/sec.

**91. The buoyancy depends on the**

- (a) Depth of the fluid (b) Density of the fluid  
(c) Volume of the fluid (d) Weight of the fluid

#### **ANSWERS**

1. (c) 2. (b) 3. (b) 4. (d) 5. (c) 6. (a) 7. (c) 8. (b) 9. (a) 10. (a) 11. (d) 12. (a)  
13. (c) 14. (a) 15. (a) 16. (c) 17. (c) 18. (b) 19. (c) 20. (a) 21. (a) 22. (b) 23. (d)  
24. (c) 25. (a) 26. (d) 27. (c) 28. (c) 29. (a & b) 30. (b) 31. (d) 32. (c) 33. (a) 34. (a)  
35. (b) 36. (a) 37. (b) 38. (b) 39. (d) 40. (b) 41. (a) 42. (d) 43. (b) 44. (c) 45. (d) 46. (a)  
47. (d) 48. (b) 49. (c) 50. (a) 51. (c) 52. (a) 53. (a) 54. (d) 55. (c) 56. (c) 57. (b) 58. (a)  
59. (d) 60. (d) 61. (a) 62. (a) 63. (c) 64. (d) 65. (d) 66. (a) 67. (c) 68. (b) 69. (a) 70. (c)  
71. (c) 72. (a) 73. (a) 74. (b) 75. (d) 76. (c) 77. (a) 78. (d) 79. (c) 80. (d) 81. (a) 82. (d)  
83. (a) 84. (d) 85. (d) 86. (c) 87. (a) 88. (d) 89. (a) 90. (c) 91. (b)