

# BASIC SCIENCE & ENGINEERING

QUIZ-1

The background of the cover is a photograph of a railway station. In the foreground, a blue and white electric locomotive is moving towards the viewer. In the background, a white diesel locomotive is pulling a train of blue and white freight cars. The scene is set in a city with buildings visible in the distance.

## FOR RAILWAYS & SSC EXAMS

**Railways Basic Science and Engineering Important Questions Quiz**

- 1) If a **ball is thrown up**, which of the following does not change?
  - A. Acceleration
  - B. Speed
  - C. Potential energy
  - D. Distance
- 2) What does the **slope of a velocity time graph** represent?
  - A. Acceleration
  - B. Distance
  - C. Speed
  - D. Momentum
- 3) **Optical fiber** works on which of the following principle of light?
  - A. Reflection
  - B. Refraction
  - C. Diffraction
  - D. Total Internal Reflection
- 4) Which instrument is used to measure very **high temperatures**?
  - A. Machmeter
  - B. Photometer
  - C. Pyknometer
  - D. Pyrometer
- 5) The discoverer of **Penicillin** was
  - A. Lord Lister
  - B. Alexander Fleming
  - C. Karl Landsteiner
  - D. Walter Reed
- 6) **Crescograph** was invented by
  - A. S.N. Bose
  - B. P.C. Roy
  - C. J.C. Bose
  - D. P.C. Mahalanobis
- 7) **Digestion of carbohydrates** begins in?
  - A. Small intestine
  - B. Mouth
  - C. Buccal cavity
  - D. Stomach
- 8) **Energy is stored in liver** and muscles in the form of
  - A. Carbohydrate
  - B. Fat
  - C. Protein
  - D. Glycogen
- 9) **Making of Curd from Milk** is because of:
  - A. Bacteria
  - B. Virus
  - C. Protozoa
  - D. Other
- 10) The **pH value of the blood** in human body is
  - A. 6.4
  - B. 4.8
  - C. 7.4
  - D. 8.4
- 11) **Graphite** is used in the nuclear reactor as a
  - A. Fuel
  - B. Lubricant
  - C. Moderator
  - D. None of the above
- 12) **Teflon** is the common name of
  - A. Polytetrafluoro ethylene
  - B. Polyvinyl chloride
  - C. Polyvinyl fluoride
  - D. Dichlorodifluoro methane
- 13) **Rutherford's** alpha-particle scattering experiment was responsible for the discovery of –
  - A. Atomic Nucleus
  - B. Electron
  - C. Proton
  - D. Neutron
- 14) **Galvanization** is a method of protecting iron from rusting by coating with a thin layer of –
  - A. Gallium
  - B. Aluminum
  - C. Zinc
  - D. Silver
- 15) **Decibel** unit is used to measure

- A. Light intensity
- B. Sound intensity
- C. Magnitude of Earthquake
- D. None of the above

16) In **SONAR**, we use:

- A. Radio Waves
- B. Audible Sound Waves
- C. Ultra-Sonic Waves
- D. Infra-Sonic Waves

17) According to new definition adopted by '**International Astronomical Union**' in 2006, which of the following is not a 'planet'?

- A. Uranus
- B. Neptune
- C. Pluto
- D. Jupiter

18) Which one of the following does **not contain silver**?

- A. Horn silver
- B. German silver
- C. Ruby silver

D. Lunar caustic

19) Which of the following is measured by '**Anemometer**'?

- A. Velocity of water-flow
- B. Depth of water
- C. Force of the wind
- D. Intensity of light

20) The image formed by an **astronomical telescope** is:

- A. Virtual and diminished
- B. Virtual and magnified
- C. Real and diminished
- D. Real and magnified

**Railways Basic Science and Engineering Important Questions Quiz - ANSWERS**

1. A	2. A	3. D	4. D	5. B
6. C	7. C	8. D	9. A	10. C
11. C	12. A	13. A	14. C	15. B
16. C	17. C	18. B	19. C	20. B

**DID YOU KNOW??**

**India's first passenger train**, hauled by three steam locomotives (Sahib, Sindh and Sultan), ran for **34 kms** (21 mi) with **400 people in 14 carriages** on 1,676 mm (5 ft 6 in) broad gauge track between **Bori Bunder (Mumbai) and Thane on 16 April 1853**.