

APS COLLEGE OF COMMERCE

N.R.COLONY, BANGALORE

B. B A. Examination, December – 2018

(F + R) (CBCS) (2016-17 and Onwards)

SCIENCE AND SOCIETY 2018

TIMINGS: 3Hours

MAX MARKS: 70

1. In which year Sir CV Raman won the Nobel Prize for Physics?

- a. 1920 b. 1922 c. 1938 d. 1930

Ans. d. 1930

2. To whom we will call as the Missile man of India?

- a. H J Bhabha b. APJ Abdul Kalam c. Vikram Sarabhai d. Satyendra Basu

Ans. b. APJ Abdul Kalam

3. In Karnataka where Atomic Power Station is placed

- a. Shivamogga b. Kaiga c. Hubli d. Dharwad

Ans. b. Kaiga

4. In which year ISRO launched MOM (Mars Orbit Mission) was successfully entered to the Mars Orbit?

- a. 2012 b. 2010 c. 2014 d. 2015

Ans. c. 2014

5. In feudalism Lords were called as _____.

- a. Dukes and Earls b. Baronus c. The King d. Lesser Lords

Ans. d. Lesser Lords

6. Which one is found only in males?

- a. X chromosome b. 2 X chromosome c. O chromosome d. Y chromosome

Ans. d. Y chromosome

7. Which of the following causes the least pollution when burnt?

- a. Petrol b. diesel c. natural gas d. coal

Ans. c. natural gas

8. Moving from one website to another is called _____.
a. Jumping b. Surfing c. Web Jump d. none of the above

Ans. b. Surfing

9. The main constituent of CNG is _____.

a. Methane b. Butane c. Ethane d. Propane

Ans. a. Methane

10. First manned landing on the Moon was done using

a. Apollo 9 b. Apollo 10 c. Apollo 11 d. Apollo 12

Ans. c. Apollo 11

11. The National Science Day is observed every year in India on

a. March 28 b. September 16 c. June 21 d. February 28

Ans. d. February 28

12. The World Wide Web was developed by

a. Bill Gates b. Charles Babbage c. Tim Berners -Lee d. Blaise Pascal

Ans. c. Tim Berners -Lee

13. Insomnia is a characteristic feature of

a. Schizophrenia b. Depression c. Epilepsy d. Psychosis

Ans. a. Schizophrenia

14. Which of the following is a non-renewable source of energy?

a. Solar b. Wind c. coal d. biofuel

Ans. c. coal

15. Antibiotics

a. Do not destroy viruses

b. Should be taken preferably in the morning

c. Were known around the time of the First World War

d. Have no known side effects

Ans. a. Do not destroy viruses

16. The term ISP refers to

a. Internal Software Protocol

- b. International Shareware Pool
- c. Internet Service Provider
- d. Interface Standard Protocol

Ans. c. Internet Service Provider

17.The efficiency of solar cells is about

- a. 25%
- b. 15%
- c. 40%
- d. 60%

Ans. b. 15%

18.Entomology is the study of

- a. Insects
- b. Plants
- c. Entamoeba
- d. none of the above

Ans. a. Insects

19.The rings of Saturn were discovered by

- a. Kepler
- b. Ptolemy
- c. Copernicus
- d. Galileo

Ans. d. Galileo

20.The Industrial Revolution began in

- a. England
- b. USA
- c. India
- d. Germany

Ans. a. England

21.The ancient Babylonians found to use the soap around

- a. 3800 BC
- b. 2800 BC
- c. 2500 BC
- d. 2400 BC

Ans. b. 2800 BC

22.Moderators are used in the nuclear reactors to

- a. To accelerate the neutrons
- b. Slow down the neutrons
- c. Produce neutrons
- d. To absorb the neutrons

Ans. To accelerate the neutrons

23.Who announced the introduction of National Food Security Act?

- a. Pranab Mukherjee
- b. Manmohan Singh
- c. P.Chidambaram
- d. Arun Jaitley

Ans. a. Pranab Mukherjee

24.The National Bank for Agriculture and Rural Development (NABARD) was established in the year?

- a. 1970 b. 1975 c. 1977 d. 1980

Ans. 1982

25.Where is the Central Rice Research Institute located?

- a. Bengaluru b. Cuttack c. Kanpur d. Coimbatore

Ans. b. Cuttack

26.In science, an educated guess is called a/an

- a. Question b. Conclusion c. Hypothesis d. Observation

Ans. c. Hypothesis

27.Which of the following is a proof of the earth's Revolution around the sun?

- a. Rising and setting of the Sun
b. Seasons
c. Parallax of stars
d. all the above

Ans. Parallax of stars

28.The Department of Science and Technology (DST) was established In India by

- a. May 1971 b. June 1971 c. May 1981 d. June 1981

Ans. May 1971

29.The process of repeated formation of species is called

- a. Evolution d. Hybridization c. Speciation d. Mutation

Ans. c. Speciation

30.The term Polymer is derived from

- a. Greek b. Latin c. French d. English

Ans. a. Greek

31.What is the common environmental problem with the use of detergents?

- a. Soil Erosion b. Global Warming c. Eutrophication d. all of the above

Ans. c. Eutrophication

32. Why is nuclear radiation dangerous?

- a. It explodes one touched
- b. It cause blindness
- c. It can change your DNA
- d. All the above

Ans. d. It can change your DNA

33. Nuclear reactors usually employ

- a. Fusion
- b. Fission
- c. both a and b
- d. none of the above

Ans. b. Fission

34. GPS means

- a. Global Pointing System
- b. Globe Positioning System
- c. Global Positioning System
- d. General Point in System

Ans. c. Global Positioning System

35. Penicillin is obtained from

- a. Algae
- b. Fungi
- c. Bacteria
- d. Virus

Ans. b. Fungi

36. A social science is the systematic study of

- a. The natural world models of reality human behaviour and Society experimentation
- b. The first stage of industrial revolution
- c. Consumable goods production capital goods production
- d. Standardisation productivity

Ans. a. The natural world models of reality human behaviour and Society experimentation

37. The theory that evolutionary change is slow and continuous is known as

- a. Punctuated equilibrium
- b. Geographic isolation

- c. Speciation
- d. Gradualism

Ans. a. Punctuated equilibrium

38. Darwin's theory of evolution is based on the concept of

- a. Use and Disuse
- b. Natural Selection
- c. Mutations
- d. Hybridization

Ans. b. Natural Selection

39. Which of the following is considered to be Bacteriostatic?

- a. Penicillin
- b. Ciprofloxacin
- c. Cefotaxime
- d. Chloramphenicol

Ans. d. Chloramphenicol

40. Which of the following definition for science has been coined by Carl Sagan?

- a. Science is a way of Thinking much more than it is a body of knowledge
- b. is an intellectual activity carried out by humans
- c. Knowledge covering general truth
- d. Science is uncertain and subject to revision

Ans. a. Science is a way of Thinking much more than it is a body of knowledge

41. What are the causes for low agricultural productivity in India?

- a. Social environment
- b. Pressure of population on land
- c. Lack of credit and the marketing facilities
- d. all of the above

Ans. d. all the above

42. The German physicist or scientist prove that the Earth and other planets move round the sun not in a circle, but in elliptical orbits was

- a. Tycho Brahe
- b. Sir Issac Newton
- c. John Kepler
- d. Galileo

Ans. c. John Kepler

43. The word agriculture has been derived from

- a. German
- b. Latin
- c. American
- d. Arabic

Ans. b. Latin

44. Which group of organisms is believed to be among the earliest to evolve on earth?

- a. Arthropods
- b. Coelenterates
- c. Protozoans
- d. Reptiles

Ans. c. Protozoans

45. A sheet of newspaper is about thick

- a. 100000 nanometres
- b. 10000000 nm
- c. 1 nm
- d. 1000 nm

Ans. c. 1 nm

46. Expand GSLV.

- a. Geo Circular Satellite Launch Vehicle
- b. Geo Electrical Satellite Launch Vehicle
- c. Geosynchronous Satellite Launch Vehicle
- d. Geo Orbital Satellite Launch Vehicle

Ans. c. Geosynchronous Satellite Launch Vehicle

47. The decimal number system in use today was the first recorded in

- a. Indian Mathematicians
- b. Roman Mathematician
- c. Greek Mathematician
- d. Latin Mathematicians

Ans. a. Indian Mathematicians

48. TCP IP is a

- a. Network hardware
- b. network software
- c. protocol
- d. none of the above

Ans. c. protocol

49. The process of Hypothesis testing has

- a. 6 steps
- b. 9 steps
- c. 7 steps
- d. 8 steps

Ans. c. 7 steps

50. Principle of laser is

- a. Spontaneous absorption
- b. stimulated emission
- c. induced emission
- d. all of the above

Ans. b. stimulated emission

51. The prefix Nano comes from a

- a. Greek word meaning dwarf
- b. Spanish word meaning of particle
- c. Latin Word meaning invisible
- d. French word meaning billion

Ans. a. Greek word meaning dwarf

52. Smart materials are those materials

- a. That responds to a change in their fossilized and hydrocarbon form
- b. That response to a change either in the temperature moisture and pH
- c. That can be controlled by external forces such as mechanical stress etc.
- d. Both B and C

Ans. d. Both B and C

53. Hemochromatosis, sickle cell anaemia, down syndrome are examples of

- a. Diseases as a result of complications due to HIV
- b. Dysfunctional gene behaviour caused due to mutation
- c. Health hazards as a result of increased use of GM crops
- d. Diseases where no new cases have been reported since Year 2000

Ans. b. Dysfunctional gene behaviour caused due to mutation

54. The Green Revolution is criticized by some because

- a. It created an agricultural surplus

- b. It promoted many variety is in food grains
- c. It enhanced the dependence on fertilizers and many pesticides
- d. None of the above

Ans. d. None of the above

SCIENCE AND SOCIETY 2019

1. Expand DNA

- a. Deoxyribonucleic acid
- b. De-ribo nucleic acid
- c. Deoxy nucleic acid
- d. None

Ans. a. Deoxyribonucleic acid

2. Which of the below is a non-renewable energy resource?

- a. Solar
- b. Coal
- c. Hydroelectricity
- d. Wind Power

Ans. b. Coal

3. CV Raman won Nobel Prize for

- a. Physics
- b. Chemistry
- c. Botany
- d. Zoology

Ans. a. Physics

4. Transgenic plants are

- a. Our native
- b. Contain foreign genes in their cells
- c. are used to produce disease and pest resistance crops
- d. Both B and C

Ans. b. Contain foreign genes in their cells

5. Genetic improvements in which two crops form the basis of the Green Revolution

- a. Corn and Rice
- b. Wheat and Rice
- c. Wheat and Corn
- d. Wheat and Ragi

Ans. b. Wheat and Rice

6. Expand NDDB

- a. National Dairy Development Board
- b. New Dairy Development Board
- c. National Daily Development Board
- d. None

Ans. a. National Dairy Development Board

7. Which state in India ranks first in the installation of wind power?

- a. Gujarat
- b. Andhra Pradesh
- c. Maharashtra
- d. Tamil Nadu

Ans. d. Tamil Nadu

8. Which of this is not a biofuel?

- a. Ethanol
- b. Diesel
- c. Methanol
- d. all of the above

Ans. b. Diesel

9. Father of Indian surgery is

- a. Charaka
- b. Sushruta
- c. Bhaskara
- d. none of the above

Ans. b. Sushruta

10. Chernobyl nuclear accident occurred in early morning of

- a. 26 April 1986
- b. 26 March 1986
- c. 26 June 1987
- d. 26 July 1987

Ans. 26 April 1986

11. The most energy efficient and environment safe source of light is

- a. CFL
- b. LCD
- c. LED
- d. LPG

Ans. c. LED

12. _____ said there is electricity in lighting.

a. Michael Faraday b. Benjamin Franklin c. Galileo d. Copernicus

Ans. b. Benjamin Franklin

13. The observed increase in the average temperature of the air near Earth's surface and oceans in recent decades:

a. Environment change b. Global Warming c. Health Change d. none

Ans. b. Global Warming

14. Birthplace of Renaissance is

a. Italy b. America c. India d. Britain

Ans. a. Italy

15. Magnitude scale for earthquake is

a. Richter b. Cornell c. Meitner d. Heisenberg

Ans. a. Richter

16. Origin of Species written by

a. Oparin Mandal b. Lamarck c. Darwin d. Copernicus

Ans. c. Darwin

17. Third generation satellite launched by ISRO in November 2019

a. Chandrayaan 2 b. INSAT c. Chandrayaan 1 d. Cartosat 3

Ans. d. Cartosat 3

18. Who discovered human blood groups?

a. James Watson b. Alexander Fleming c. Landsteiner d. Einstein

Ans. c. Landsteiner

19. The microscope which help to observe Nanomaterials are

a. Scanning tunnelling microscope

b. Atomic force microscope

c. Electron microscope

d. Both a and b

Ans. a. scanning tunnelling microscope

20. Which of the following causes least pollution when burnt?

a. Petrol b. Diesel c. Coal d. Natural Gas

Ans. d. Natural Gas

21. Each computer connected to the internet must

- a. be an IBM PC
- b. have a unique IP address
- c. be internet compatible
- d. have a modem connection

Ans. b. have a unique IP address

22. The antibiotic penicillin obtained from

- a. Staphylococcus
- b. Penicillium notatum
- c. Streptococcus
- d. All the above

Ans. b. Penicillium notatum

23. _____ coined the term nanotechnology.

- a. Richard Feynman
- b. Richard Batson
- c. Norio Taniguchi
- d. none of the above

Ans. c. Norio Taniguchi

24. The only metal in liquid state is

- a. Iron
- b. Calcium
- c. Magnesium
- d. Mercury

Ans. d. Mercury

25. Heliocentric system given by

- a. Nicholas
- b. Copernicus
- c. Galileo
- d. Albert Einstein

Ans. b. Copernicus

26. The nearest planet to sun is

- a. Mars
- b. Earth
- c. Moon
- d. Mercury

Ans. d. Mercury

27. Which of the following is not a naturally occurring nuclear fuel?

- a. Uranium 238
- b. Thorium 233
- c. Plutonium 239
- d. none

Ans. d. None

28. Photovoltaics energy is the conversion of Sunlight into

- a. Chemical Energy
- b. Biogas energy
- c. Electricity
- d. Geothermal energy

Ans. c. Electricity

29. Yukti means

- a. Skill b. Strength c. Games d. none

Ans. a. Skill

30. The first Indian satellite launched Indian made launch vehicle in the year 1980 is

- a. Aryabhata b. Bhaskara c. Apple d. Rohini

Ans. Aryabhata

31. The iron age

- a. 4000 to 3000 BCE
b. 3000 to 1000 BCE
c. 1000 to present
d. None

Ans. d. None

32. Nuclear Fusion means

- a. Splitting of large atom into one or more smaller ones
b. fusion of two or more lighter atoms into larger ones
c. both A and B
d. None

Ans. b. fusion of two or more lighter atoms into larger ones

33. To join the internet, the computer has to be connected to a

- a. Internet Architecture Board
b. Internet Society
c. Internet Service Provider
d. None

Ans. c. Internet Service Provider

34. Graphite is used in nuclear plant as

- a. As a fuel b. an electrode c. Moderator d. coolant

Ans. c. Moderator

35. Who released a special stamp fitted White Revolution in July 1968?

- a. Mahatma Gandhi b. Jawaharlal Nehru c. Indira Gandhi d. M S Swaminathan

Ans. c. Indira Gandhi

36. Ganitha Sara Sangraha is written by

- a. Aryabhata b. Mahavira Acharya c. Bhaskara d. Neelakanta

Ans. b. Mahavira Acharya

37. _____ is regarded as father of genetics.

- a. Mendel b. Bateson c. Hugo De Beris d. Darwin

Ans. a. Mendel

38. The process of hypothesis testing has

- a. 6 steps b. 9 steps c. 8 steps d. 7 steps

Ans. d. 7 steps

39. Internet works on

- a. Packet switching
b. circuits switching
c. both A and B
d. main switch

Ans. a. Packet switching

40. Soaps are

- a. sodium or potassium salts of fatty acids
b. contains petroleum products only
c. they contains fatty acids only
d. None

Ans. a. sodium or potassium salts of fatty acids

41. Through windmill motor generator is converted into

- a. Wind Energy to Electricity
b. wind energy to chemical energy
c. kinetic energy to Electricity
d. wind energy to kinetic energy

Ans. a. Wind Energy to Electricity

42. Laser is used in these areas

- a. medicine and industry
- b. military and law
- c. Research and laser light show
- d. all the above

Ans. d. all the above

43. The chemical used in manufacturing soaps which has high risk of causing cancer in

- a. Trethanolamine
- b. PEG - 6A and Sodium PCA
- c. Propyieneglycol
- d. All the above

Ans. a. Trethanolamine

44. The first structure of DNA was determined in by

- a. 1953 by James Watson
- b. 1953 by Land Steiner
- c. 1953 by Darwin
- d. 1953 by Planck

Ans. a. 1953 by James Watson

45. HTML stands for

- a. Hypertext Mark-up Limited
- b. Hotmail Mark-up Limited
- c. Hotmail Mark-up Language
- d. Hypertext Mark-up Language

Ans. d. Hypertext Mark-up Language

46. Match the correct pair:

- | | |
|-----------------------------|---------------------|
| A. Indian nuclear programme | 1. MS Swaminathan |
| B. Green Revolution | 2. Vasant Gowariker |

- C. Indian monsoon model 3. homi J Bhabha
D. White Revolution 4. Kurian Varghese

- a. A -2 B-3 C-4 D-1
b. A- 1 B-3 C-4 D-2
c. A-4 B-2 C-1 D-3
d. A-3 B-1 C-2 D-4

Ans. d. A-3 B-1 C-2 D-4

47. PSLV means

- a. Polar Satellite Landing Vehicle
b. Polar Satellite Launch Vehicle
c. Polar Satellite A Load Vehicle
d. Polish Service Launch Vehicle

Ans. b. Polar Satellite Launch Vehicle

48. Rediscovery of Rational Civilization Exemplified By

- a. Greece b. Rome c. Both A and B d. None

Ans. c. Both A and B

49. During White Revolution the Research Institute of _____ developed a vaccine called

- a. Hyderabad Raksha
b. Gujarat Raksha
c. Hyderabad vaccine
d. Cow Raksha

Ans. a. Hyderabad Raksha

50. Which one is found only in males?

- a. X chromosome b. Y chromosome c. 2 X chromosome d. none

Ans. b. Y chromosome

51. Match the correct pair:

- A. Typhoid 1. Pneumococcus
B. Tuberculosis 2. HIV

- C. AIDS 3. Mycobacterium
 D. Pneumonia 4. Salmonella Typhi

- a. A-4 B-3 C-2 D- 1
 b. A-3 B-2 C-4 D-1
 c. A-2 B-4 C-1 D-3
 d. A-1 B-3 C-4 D-2

e. **Ans.** a. A-4 B-3 C-2 D- 1

52. 1 Nano is equal to _____m.

- a. 10^{-9} m b. 9^{-10} m c. 10^{-10} m d. 9^{-9} m

Ans. a. 10^{-9} m

53. The word science comes from _____ meaning _____.

- a. Latin meaning language
 b. Latin meaning information
 c. Greek meaning knowledge
 d. Latin meaning knowledge

Ans. d. Latin meaning knowledge

54. Which is the first nuclear power plant in India?

- a. Kudankulam nuclear power plant
 b. Tarapur Atomic Power Station
 c. Kaiga nuclear power plant
 d. Madras Atomic Power Station

Ans. b. Tarapur Atomic Power Station

55. $E=mc^2$ is an equation to prove

- a. Photoelectric effect
 b. Radioactivity
 c. Brownian motion
 d. theory of relativity

Ans. d. theory of relativity

SCIENCE AND SOCIETY 2021

1. The first Indian satellite launched through Indian made launch vehicle in the year 1980 is

- a. Aryabhata b. Bhaskara c. Apple d. Rohini

Ans. a. Aryabhata

2. Most likely event which can cause a rise in the average temperature of Earth's atmosphere is

- a. forest fires
b. CO₂ from fossil fuels
c. dust clouds from volcanoes
d. depletion of Earth's ozone layer

Ans. b. CO₂ from fossil fuels

3. High yielding variety - HYV - seeds were introduced to Indian farmers as a result of

- a. White revolution
b. Green revolution
c. Red revolution
d. Orange revolution

Ans. b. Green revolution

4. Blue Revolution being envisaged by the Government of India is aimed at

- a. Increasing Industrial Production of Blue Dyes
- b. Augmenting Pulse Production
- c. Enhancing Aquaculture Products Both in Brackish and Freshwater
- d. Increasing Fish Production in Freshwater
- e. **Ans.** d. Increasing Fish Production in Freshwater

5. Non-Conventional Sources of Energy are

- a. Nuclear b. Biomass c. Wind d. Thermal
- b. geothermal, ocean, solar, nuclear
- c. Biomass, solar, wind, tidal
- d. none of the above

Ans. c. Biomass, solar, wind, tidal

6. _____ coined the term Nanotechnology.

- a. Richard Feynman
- b. Richard Batson
- c. Norio Taniguchi
- d. None of the above

Ans. c. Norio Taniguchi

7. Ancient Babylonians found to use the soap around

- a. 3800 BC b. 2800 BC c. 2500 BC d. 2400 BC

Ans. b. 2800 BC

8. Yukti means

- a. Skill b. Strength c. Games d. None

Ans. a. Skill

9. Third generation satellite launched by ISRO in November 2019

- a. Chandrayaan 2
- b. INSAT
- c. Chandrayaan 1
- d. Cartosat 3

Ans. d. Cartosat 3

10. Genetic improvements in which two crops formed the basis of the Green Revolution?

- a. corn and rice
- b. wheat and corn
- c. wheat and rice
- d. wheat and ragi

Ans. c. Wheat and Rice

11. Which of the following technological advances are affecting human cognition, emotions and ethics?

- a. bus, aeroplane, microwave oven
- b. boilers, Metro trains, television
- c. internet, cell phones, digital communication devices
- d. submarines, radars, missiles
- e. **Ans.** c. internet, cell phones, digital communication devices

12. The observed increase in the average temperature of the air near Earth surface and oceans in recent decades:

- a. environment change
- b. global warming
- c. health change
- d. none

Ans. b. global warming

13. Who announced the introduction of National Food Security Act?

- a. Pranab Mukherjee
- b. Manmohan Singh
- c. P Chidambaram
- d. Arun Jaitley

Ans. a. Pranab Mukherjee

14. The term ISP refers to

- a. Internal Software Protocol

- b. International Shareware Pool
- c. Internet Service Provider
- d. Interface Standard Protocol

Ans. c. Internet Service Provider

15. Origin of Species is work of

- a. Mathew Amold
- b. Charles Darwin
- c. Albert Einstein
- d. Sigmond Freud

Ans. b. Charles Darwin

16. The most energy efficient and environment safe source of light is

- a. CFL
- b. LCD
- c. LED
- d. LPG

Ans. c. LED

17. To join the internet, the computer has to be connected to a

- a. Internet Architecture board
- b. Internet society
- c. Internet service provider
- d. None

Ans. c. Internet service provider

18. Which one of these depletes the Ozone layer and causes global warming?

- a. Nitrogen dioxide
- b. CFC's
- c. Ammonia
- d. all the above

Ans. a. Nitrogen dioxide

19. The term Polymer is derived from

- a. Greek
- b. Latin
- c. French
- d. English

Ans. a. Greek

20. The efficiency of solar cells is about

- a. 25%
- b. 15%
- c. 40%
- d. 60%

Ans. b. 15%

21. Primitive observers defined a natural phenomenon as an activity of

- a. supernatural forces
- b. humans
- c. machines
- d. none of the above
- e. **Ans.** a. supernatural forces

22.HTML stands for

- a. Hypertext Mark-up Limited
- b. Hotmail Mark-up Limited
- c. Hotmail Mark-up Language
- d. Hypertext Mark-up Language

Ans. d. Hypertext Mark-up Language

23. Who was the Father of White Revolution?

- a. Dr Norman Borlaug
- b. Dr M S Swaminathan
- c. Dr Varghese Kurian
- d. KN Bahal

Ans. c. Dr Varghese Kurian

24. Protected land for conservation of wildlife, plant and animal resources and traditional life of tribal living in that area is known as

- a. Sanctuary
- b. National Park
- c. Biosphere reserve
- d. all of the above

Ans. c. Biosphere reserve

25. Radioisotope used in production of nuclear weapons in India is

- a. Uranium
- b. Plutonium
- c. Thorium
- d. Radium

Ans. a. Uranium

26. The moons of Jupiter are called

- a. Satellites
- b. Simpleton
- c. Galilean
- d. none of the above

Ans. d. none of the above

27. "Sun is at the centre of the solar system" - said the first time

- a. Copernicus b. Galileo c. Aristotle d. Newton

Ans. a. Copernicus

28. Father of Indian Nuclear Programme is

- a. JC Bose b. Homi J Bhabha c. Vikram Sarabhai d. C V Raman

Ans. b. Homi J Bhabha

29. The lens used to construct a microscope

- a. Convex b. Concave c. Biconvex d. Biconcave

Ans. a. Convex

30. Birthplace of Renaissance is

- a. Italy b. America c. India d. Britain

Ans. a. Italy

31. Who discovered human blood groups?

- a. James Watson
b. Alexander Fleming
c. Landsteiner
d. Einstein

Ans. a. James Watson

32. Magnitude scale for earthquake is

- a. Richter b. Cornell c. Meitner d. Heisenberg

Ans. a. Richter

33. Ganita Sara Sangraha is written by

- a. Aryabhata b. Mahavira Acharya c. Bhaskara d. Neelakanta

Ans. b. Mahavira Acharya

34. _____ said there is electricity in lightning

- a. Michael Faraday b. Benjamin Franklin c. Galileo d. Copernicus

Ans. b. Benjamin Franklin

35. The Iron Age

- a. 4000 to 3000 BCE
- b. 3000 to 1000 BCE
- c. 1000 to present
- d. None

Ans. d. None

36. CV Raman won Nobel Prize for

- a. Physics
- b. Chemistry
- c. Botany
- d. Zoology

Ans. a. Physics

37. Soaps are

- a. Sodium or potassium salts of fatty acids
- b. contains petroleum products only
- c. they contain fatty acids only
- d. None

Ans. a. Sodium or potassium salts of fatty acids

38. _____ is regarded as father of genetics

- a. Mendel
- b. Bateson
- c. Hugo De Beris
- d. Darwin

Ans. a. Mendel

39. Expand DNA

- a. Deoxyribo Nucleic Acid
- b. De-ribo Nucleic Acid
- c. Deoxy Nucleic Acid
- d. None

Ans. a. Deoxyribo Nucleic Acid

40. The first stage of industrial revolution

- a. consumable goods
- b. production
- c. capital goods production

d. standardisation productivity

Ans. a. consumable goods

41. Through windmill motor generator is converted into

- a. wind energy to Electricity
- b. wind energy to chemical energy
- c. kinetic energy to Electricity
- d. wind energy to kinetic energy

Ans. a. wind energy to Electricity

42. $E=mc^2$ is an equation to prove

- a. Photoelectric effect
- b. Radioactivity
- c. Brownian motion
- d. theory of relativity

Ans. d. theory of relativity

43. Which of the following definition for science has been coined By Carl Sagan?

- a. science is a way of Thinking much more than it is a body of knowledge
- b. is an intellectual activity carried out by humans
- c. knowledge covering general truth
- d. science is uncertain and subject to revision

Ans. a. science is a way of Thinking much more than it is a body of knowledge

44. Expand NDDB.

- a. National Dairy Development Board
- b. New Dairy Development Board
- c. National Daily Development Board
- d. None

Ans. a. National Dairy Development Board

45. Difference between hybrid and transgenic or GMO plants

- a. hybrid live longer and transgenic live shorter
- b. hybrids arise due to cross pollination, while transgenic are produced by transfer of specific genes from different species
- c. hybrids are generated from grafting but transgenic results from germination
- d. Genes in hybrids are under breeders control, but in GM plants they are uncontrolled
- e. **Ans.** d. Genes in hybrids are under breeders control, but in GM plants they are uncontrolled

46. Importance of information technology in education are

- a. faster access to information from across the globe
- b. Online libraries and dictionaries, make grasping a learning easier
- c. IT based communication systems such as emails, SMS help in traction for clarity
- d. all the above

Ans. d. all the above

47. The prefix Nano comes from a

- a. Greek word meaning Dwarf
- b. Spanish word meaning of particle
- c. Latin Word meaning invisible
- d. French word meaning billion

Ans. a. Greek word meaning Dwarf

48. Expand GSLV

- a. Geo Circular Satellite Launch Vehicle
- b. Geo Electrical Satellite Launch Vehicle
- c. Geosynchronous Satellite Launch Vehicle

d. Geo Orbital Satellite Launch Vehicle

Ans. c. Geosynchronous Satellite Launch Vehicle

49. Scientific studies of nature is necessary in society for

- a. simple curiosity and improve people's lives
- b. economic development and enlightenment
- c. increasing control over our planet and its environment
- d. all the above

Ans. d. all the above

50. Entomology is the study of

- a. Insects
- b. Plants
- c. Entamoeba
- d. none of the above

Ans. a. Insects

51. The Green Revolution is criticized by some because

- a. It created an agricultural surplus
- b. It promoted many varieties in food grains
- c. It enhanced the dependence on fertilizers and many pesticides
- d. none of the above

Ans. d. none of the above

52. Ancient Indian knowledge of theories on human body, symptoms of disease and remedies in Ayurveda are made available in which Sanskrit text?

- a. Arthashastra
- b. Charaka Samhita
- c. Chandasshastra
- d. Aryabhatiya

Ans. b. Charaka Samhita

53. The word agriculture has been derived from

- a. German
- b. Latin
- c. American
- d. Arabic

Ans. b. Latin

54. _____ and _____ are two major discoveries of 15th century which led to expansion of white colonies outside Europe.

- a. spinning machine and telescope
- b. gunpowder and the steam engine
- c. gunpowder and Mariner's compass
- d. Mariner's compass and telescope

Ans. d. Mariner's compass and telescope

56. Match the Scientists and their discoveries

| Scientist | Discovery |
|-----------------------|------------------------|
| A. Alfred Nobel | 1. Vaccination |
| B. Edward Jenner | 2. Electric bulb |
| C. Newton | 3. Gravitational force |
| D. Thomas Alva Edison | 4. Dynamite |

- a. A - 3 B-1 C-4 D-1
- b. A-4 B-1 C-3 D-2
- c. A-3 B-4 C-1 D-2
- d. A-2 B-1 C-4 D-3

Ans. b. A-4 B-1 C-3 D-2