

All India Mock for UPSC EPFO EO/AO 2023 (1st-2nd March 2023)

Q1. Select the most appropriate synonym of the given word:

Purge

- (a) Evacuate
- (b) Pressurize
- (c) Thrust
- (d) Float

Q2. Select the most appropriate synonym of the given word:

Aground

- (a) Stranded
- (b) Higher
- (c) Afloat
- (d) Buoyant

Q3. Select the most appropriate synonym of the given word:

Decree

- (a) Certificate
- (b) Law
- (c) Title
- (d) Award

Q4. Select the most appropriate antonym of the given word:

Commiserate

- (a) Debatable
- (b) Empathize
- (c) Indifferent
- (d) Legion

Q5. Select the most appropriate antonym of the given word:

Imbroglia

- (a) Misery
- (b) Censure
- (c) Composure
- (d) Dilemma

Q6. Select the most appropriate antonym of the given word:

Bequest

- (a) Accord
- (b) Damage
- (c) Complex
- (d) Withdraw

Directions (7-9): Identify the segment in the sentence, which contains the grammatical error.

Q7. He has promised to finish the whole sowing process of 2 hectares with the stipulated time.

- (a) He has promised to finish
- (b) the whole sowing process of
- (c) 2 hectares in with the stipulated time.
- (d) No error

Q8. As a colleague, Vikas is very obedient, polite and hardworking but as an employee, he is always inattentive in work.

- (a) As a colleague Vikas is very obedient polite
- (b) and hardworking but as an employee,
- (c) he is always inattentive in work.
- (d) No error

Q9. Many a men is willing to help the poor.

- (a) Many a men
- (b) is willing to help
- (c) the poor.
- (d) No error

Directions (10-11): Out of the four alternatives choose the one which can be substituted for the given words/sentence in the question.

Q10. A person without a home, job or property

- (a) Derelict
- (b) Hoary
- (c) Coy
- (d) Prattle

Q11. Excessive publicity

- (a) Pinion
- (b) Hype
- (c) Maraud
- (d) Subaltern

Directions (12-18): Which one of the following words may be used in the blank space in the sentences given below.

Q12. The female fans went wild when the _____ actor walked into the theater.

- (a) prepositional
- (b) prerequisite
- (c) preposterous
- (d) prepossessing

Q13. One of them would keep a look-out on the road behind to warn us _____ approaching vehicles.

- (a) for
- (b) of
- (c) against
- (d) by

Q14. The situation at Abu Simbel was one of the most _____ examples of discrimination we have seen.

- (a) gregarious
- (b) gratuitous
- (c) egregious
- (d) garrulous

Q15. For a long time he could not reconcile himself _____ the idea that he was one of those same retired Moscow gentlemen-in-waiting he had so despised seven years before.

- (a) in
- (b) of
- (c) to
- (d) with

Q16. I'm _____ my savings until I find a job.

- (a) looking about
- (b) living off
- (c) letting up
- (d) looking on

Q17. Amar had to show that he had a well-founded fear of _____ on religious or political grounds to qualify as a refugee.

- (a) persecution
- (b) sternutation
- (c) ablution
- (d) jubilation

Q18. In spite of the cold weather, we made a/an _____ trip to the beach.

- (a) contradictory
- (b) stationary
- (c) arbitrary
- (d) ancillary

Directions (19-20): Choose the alternative which best expresses the meaning of Idiom/Phrase.

Q19. Dressing-down

- (a) Apply bandage
- (b) Wear an expensive gown
- (c) Give a scolding
- (d) Pretend

Q20. Cut the mustard

- (a) To get under expectations
- (b) To score average
- (c) To perform well
- (d) To underperform

Q21. Which of the following option in MS Word 2010 may be used to change page-size and margins?

- (a) Page Layout
- (b) View
- (c) Home
- (d) Data

Q22. Which of the following devices is mainly used to draw objects in CAD?

- (a) Keyboard
- (b) Printer
- (c) Joystick
- (d) Scanner

Q23. CCFL is used in LCD monitors for display. It stands for:

- (a) Cool Cathode Fluorescent Lamps
- (b) Cold Cathode Fluorescent Lights
- (c) Cold Cathode Fluorescent Lamps
- (d) Cool Cathode Fluorescent Lights

Q24. The manual tells you how to use a software program.

- (a) documentation
- (b) programming
- (c) technical
- (d) user

Q25. If a new device is attached to a computer, such as a printer or scanner, its..... must be installed before the device can be used.

- (a) buffer
- (b) driver
- (c) pager
- (d) server

Q26. "Sarvajanik Satyadharma" and "Gulamgiri" are some of his works to propagate the abolishment of caste system. He also established Satyasodhak Samaj for the same purpose. Identify this great man?

- (a) Bhim Rao Ambedkar
- (b) Mahatma Gandhi
- (c) Swami Dayananda Saraswati
- (d) Jyoyirao Phule

Q27. Self-Respect Movement was associated with which of the following issues prevailing in mid 1920s?

- (a) Rejection of dominance of brahminical religion
- (b) Rejection of purdah system
- (c) It was a temple entry movement
- (d) Revivalist response for return of true spirit of Islam

Q28. Which among the following leader is associated with "Kesari" and "Mahratta" magazine?

- (a) Bal Gangadhar Tilak
- (b) Bhagat Singh
- (c) Lala Lajpat Rai
- (d) Aurobindo Ghosh

Q29. Which of the following movement is regarded as first Civil Disobedience Movement in India?

- (a) Bardoli Satyagraha
- (b) Ahmedabad Mill Strike
- (c) Champaran Satyagraha
- (d) Kheda Satyagraha

Q30. Who among the following had founded the Theosophical Society in the United States of America?

- (a) Swami Dayanand Saraswati
- (b) Madam Blavatsky
- (c) Madam Cama
- (d) Lala Hardayal

Q31. Who among the following advocated the theory of full employment?

- (a) Beveridge
- (b) Keynes
- (c) Adam Smith
- (d) A.C. Pigou

Q32. The headquarters of International Labour Organization is located in _____.

- (a) Geneva
- (b) Rome
- (c) Paris
- (d) Tokyo

Q33. Which of the following is not included under the definition of wages given under the Payment of Wages Act, 1936?

- (a) Basic Wage
- (b) Dearness Allowance
- (c) Incentive
- (d) Gratuity

Q34. The total amount of deductions from wages of employees should not exceed ____.

- (a) 50%
- (b) 70%
- (c) 25%
- (d) 40%

Q35. Payment of Bonus Act, 1965 is applicable to every factory and to every other establishment where _____ workmen are employed on any day during an accounting year.

- (a) 20 or more
- (b) 10 or more
- (c) 50 or more
- (d) 30 or more

Q36. Which among the following is the function of heavy water in a nuclear reactor?

- (a) slow down the speed of neutrons
- (b) increase the speed of neutrons
- (c) cool down the reactor
- (d) stop the nuclear reaction

Q37. Consider the following chemicals and choose the option which correctly signifies their role as dry cleaning chemical.

- 1. Benzene
 - 2. Carbon tetrachloride
 - 3. Sodium carbonate
 - 4. Trichloroethylene
- (a) 1 only
 - (b) 2 only
 - (c) 1, 2 and 4 only
 - (d) All of the above

Q38. Which among the following are sources of methane, a major greenhouse gas?

- 1. Rice fields
 - 2. Coal mining
 - 3. Domestic animals
 - 4. Wet lands
- (a) 1 and 4 only
 - (b) 2 and 3 only
 - (c) 1, 2 and 3 only
 - (d) All of the above

Q39. Which one of the following is not a site for in-situ method of conservation of flora?

- (a) Biosphere Reserve
- (b) Botanical Garden
- (c) National Park
- (d) Wildlife Sanctuary

Q40. Which among the following elements are present in all proteins?

- 1. Carbon
 - 2. Hydrogen
 - 3. Oxygen
 - 4. Nitrogen
- (a) 2 and 3
 - (b) 1, 2 and 4
 - (c) 1, 3 and 4
 - (d) All of the above

Q41. Age of fossil may be found out by determining the ratio of two isotopes of carbon. The isotopes are _____ and _____.

- (a) C-12 and C-13
- (b) C-13 and C-14
- (c) C-12 and C-14
- (d) C-12 and carbon black

Q42. Which one among the following statement about an atom is not correct?

- (a) Atoms always combine to form molecule.
- (b) Atoms are the basic units from which molecules and ions are formed.
- (c) Atoms are always neutral in nature.
- (d) Atoms aggregate in large numbers to form the matter that we can see, feel and touch.

Q43. The bonding between the nitrogenous bases of one strand with another strand of DNA is done by

- (a) Covalent bond
- (b) Vander Waal's interaction
- (c) Hydrogen bond
- (d) Ionic bond

Q44. What type of reaction is carried out by the lipase in the digestion of fats?

- (a) Reduction
- (b) Dehydration
- (c) Hydrolysis
- (d) Calcification

Q45. Vinegar is use as a condiment, and in the pickling of vegetables and other foods. What is the constituent of vinegar?

- (a) Butanoic acid
- (b) Methanoic acid
- (c) Ethanoic acid
- (d) Hexanoic acid

Q46. Which among the following are the fundamental forces of nature?

- 1. Electromagnetic force
- 2. Strong nuclear force
- 3. Weak nuclear force
- 4. Gravitational force

- (a) 1, 2 and 3 only
- (b) 2, 3 and 4 only
- (c) 1, 3 and 4 only
- (d) All of the above

Q47. Which one of the following is paramagnetic in nature?

- (a) Iron
- (b) Hydrogen
- (c) Oxygen
- (d) Nitrogen

Q48. Which among the following is least dense among all the options given below?

- (a) Aluminium
- (b) Mercury
- (c) Gold
- (d) Alcohol

Q49. Which among the following is the chemical name of “epsom salt”?

- (a) Sodium bicarbonate
- (b) Magnesium sulfate
- (c) Copper sulphate
- (d) Sodium carbonate

Q50. Which among the following gases are responsible for acid rain?

- 1. Nitrogen oxide
- 2. Sulphur oxide
- 3. Carbon dioxide

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3 only

Q51. Which among the following features makes Indian judiciary independent?

1. Indian judiciary has single system of courts that enforces both the central laws as well as the state laws.

2. All the expenses of the Supreme Court charged on the Consolidated Fund of India.

3. Security of tenure of the judges

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3 only

Q52. Which among the following options could be the reason to call fundamental rights as “fundamental”?

1. They are guaranteed and protected by the constitution.

2. They are most essential for the all-round development of individuals.

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) None of the above

Q53. Which among the following is established by the Directive Principles of State Policy?

- 1. Political democracy
- 2. Social democracy
- 3. Economic democracy

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3 only

Q54. All the thirty members are from Lok Sabha only. The Rajya Sabha has no representation in this committee. Which among the following Parliamentary Committee has been referred here?

- (a) Estimates Committee
- (b) Public Undertakings Committee
- (c) Public Accounts Committee
- (d) Business Advisory Committee

Q55. Which among the following amendments lead to the addition of 9th Schedule in the constitution?

- (a) 42nd Amendment Act
- (b) 7th Amendment Act
- (c) 38th Amendment Act
- (d) 1st Amendment Act

Q56. With which among the following countries “concurrent list in union-state relations” is adopted in the Indian constitution?

- (a) USA
- (b) Australia
- (c) Ireland
- (d) Germany

Q57. Bonded Labour System (Abolition) Act is the result of the ratification by India of which of the following Conventions of ILO?

- (a) Unemployment Convention, 1919
- (b) Forced Labour Convention, 1930
- (c) Weekly Rest (Industry Convention), 1921
- (d) Right of Association (Agriculture) Convention, 1921

Q58. Headquarters of International Labour Organization is located in _____.

- (a) Geneva
- (b) Rome
- (c) Paris
- (d) Tokyo

Q59. Trade Union Movement in India emerged between _____.

- (a) 1920-1930
- (b) 1850-1870
- (c) 1870-1880
- (d) 1930-1947

Q60. The ongoing globalization in the country needs reforms in our labour laws. The forces oppose changes in the existing labour legislations is _____.

- (a) Government
- (b) Labour and Trade Unions
- (c) Employers’ Associations
- (d) Human Rights’ Commission

Q61. In which country Productivity Bargaining was first used?

- (a) USA
- (b) India
- (c) UK
- (d) Germany

Q62. The feature in database language that allows us to access certain records in database is called _____.

- (a) Query
- (b) Forms
- (c) Reports
- (d) Tables

Q63. In MS Word 2010 the feature for Word Count is available in Proofing under which of the following tab?

- (a) Home
- (b) Review
- (c) Insert
- (d) View

Q64. Personnel who design, program, operate and maintain computer equipment refers to

- (a) Console-operator
- (b) Programmer
- (c) People ware
- (d) System Analyst

Q65. Copying a process from memory to disk to allow space for other processes is called _____.

- (a) Swapping
- (b) Deadlock
- (c) Demand Paging
- (d) Page Fault

Q66. Software you can use to create a budget is called:

- (a) Word processing software
- (b) Graphics software
- (c) Utility software
- (d) Spreadsheet software

Q67. Which among the following statements are not correct?

- (a) Kalidasa and Amarsimha were the court poets of Chandragupta II.
- (b) Nalanda was famous centre of Mahayana Buddhism during Harsha's age.
- (c) Banabhatta, who was court poet of Harsha wrote a book named "Harshacharita".
- (d) In the Gupta period, trade and commerce taxes increased in number and land taxes decreased.

Q68. The Shore Temple at Mahabalipuram was built during the reign of _____.

- (a) Narshimhavarman II.
- (b) Rajaraja Chola
- (c) Rajendra Chola
- (d) Vijayalaya Chola

Q69. Consider the following statements and choose the correct options from the alternatives given below:

1. Ajanta caves is associated with the three religions Hinduism, Buddhism and Jainism.

2. Elephanta caves is associated with hinduism only.

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) None of the above

Q70. Which among the following is mentioned under the "Kathopanishad"?

- (a) Famous dialogue between Nachiketa and Yama
- (b) Description of the various degrees of happiness enjoyed by the different beings in creation
- (c) An ancient source of principal fundamentals of Vedanta philosophy.
- (d) Famous dialogue between Yajnavalkya, Maitreyi and Katyayani

Q71. Who among the following was given the title of "Jagat Guru" by Akbar?

- (a) Harivijay Suri
- (b) Birbal
- (c) Lal Khan
- (d) Ustad Mansur

Q72. Who among the following has written the novel "Durgeshnandini"?

- (a) Bankim Chandra Chatterjee
- (b) Rabindranath Tagore
- (c) Premchand
- (d) Aurobindo Ghosh

Q73. Which among the following factors contributes maximum to the India's National Greenhouse Gas Emissions?

- (a) Energy
- (b) Industrial Process and Product Use
- (c) Waste
- (d) Agriculture

Q74. Who among the following has authored the book titled "A Nation in Making"?

- (a) Jawaharlal Nehru
- (b) Swami Vivekananda
- (c) Surendra Nath Banerjee
- (d) Lala Lajpat Rai

Q75. "Dandeli-anshi Tiger Reserve" is located in the state of _____.

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

Q76. In which among the following regions of India, sholas forests are found?

- (a) North eastern Himalayas
- (b) Deltaic regions of India
- (c) Western Himalayas
- (d) Nilgiris regions of India

Q77. Which among the following statements are incorrect?

- (a) World Bank Group is a family of five international organizations with its headquarter at Washington D.C.
- (b) World Bank is group of International Bank for Reconstruction and Development (IBRD) and International Development Association (IDA).
- (c) A country has to first join IMF before it can be a member of the World Bank.
- (d) The headquarter of IMF is located at New York.

Q78. Which among the following statements best defines the “Primary Deficit”?

- (a) It is the difference between the fiscal deficit and interest payments.
- (b) It is the borrowing made from the RBI through printing fresh currency.
- (c) It is the difference between the budget deficit and interest payments.
- (d) It is the difference between the revenue deficit and interest payments.

Q79. Which among the following tools can be used for fiscal consolidation?

- 1. Revenue reforms
 - 2. Disinvestment and privatization
 - 3. Rationalizing subsidies
- (a) 1 and 2 only
 - (b) 2 and 3 only
 - (c) 1 and 3 only
 - (d) 1, 2 and 3 only

Q80. Which among the following statements about Social Progress Index is incorrect?

- (a) It factors in the social and environmental factors to set economic growth.
- (b) It was developed by Pakistani economist Mahbub ul Haq.
- (c) Basic human needs, foundations of well-being and opportunity are three broad heads of the index.
- (d) The index captures outcomes related to all 17 Sustainable Development Goals.

Q81. Which among the following statements are correct regarding “tax buoyancy”?

- 1. It is directly related with the Tax to GDP ratio of an economy.
 - 2. Developing country tends to be more tax buoyant as compared to developed country.
- (a) Only 1
 - (b) Only 2
 - (c) Both 1 and 2
 - (d) None of the above

Q82. Which among the following statements regarding “Angel Investors” is incorrect?

- (a) They are individuals or firms who invest at the early stages of startups.
- (b) They invest public money in order to encourage entrepreneurship.
- (c) They are regulated by Securities and Exchange Board of India.
- (d) These types of investments are usually risky.

Q83. Which among the following is the part of “Current Account transactions” of Balance of Payment sheet?

- 1. Foreign trade in merchandise and invisibles
 - 2. Loans and investments
 - 3. Remittances and charities
- (a) 1 and 2 only
 - (b) 2 and 3 only
 - (c) 1 and 3 only
 - (d) 1, 2 and 3 only

Q84. Consider the following statements regarding Sarvodaya Movement in India and choose the correct options from the alternatives given below.

- 1. Sarvodaya movement is the movement which aims at rural reconstruction and uplifting the people of rural India by peaceful and co-operative means.
 - 2. Sarvodaya stresses on coexistence and mutual love.
 - 3. In order to implement high Ideals of Sarvodaya, Mahatma Gandhi established Sarvodaya Samaj in India.
- (a) 1 and 2 only
 - (b) 2 and 3 only
 - (c) 1 and 3 only
 - (d) 1, 2 and 3 only

Q85. “Whitley Commission” of 1929 was set up to deal with the issue of _____.

- (a) civil services reforms in India
- (b) financial reforms of India
- (c) labour conditions of industrial workers
- (d) prevailing conditions of famines and farmers

Q86. At which among the following place, Portuguese established its first fort?

- (a) Cannanore
- (b) Cochin
- (c) Bombay
- (d) Masulipatnam

Q87. Who inaugurated “National Social Conference”, whose annual session run alongside the annual session of Indian National Congress?

- (a) Jawaharlal Nehru
- (b) B.R Ambedkar
- (c) M.G Ranade
- (d) C.R Das

Q88. Which among the following amendments lead to the addition of 9th Schedule in the constitution?

- (a) 42nd Amendment Act
- (b) 7th Amendment Act
- (c) 38th Amendment Act
- (d) 1st Amendment Act

Q89. With which among the following countries “concurrent list in union-state relations” is adopted in the Indian constitution?

- (a) USA
- (b) Australia
- (c) Ireland
- (d) Germany

Q90. The pensions of the judges of the High Court are charged to the _____.

- (a) Consolidated Fund of India
- (b) Consolidated Fund of the State
- (c) Contingency Fund of India
- (d) Contingency Fund of the State

Q91. Which among the following article is related to the power of superintendence, **direction** and control of elections to the Election Commission of India?

- (a) Article 326
- (b) Article 327
- (c) Article 324
- (d) Article 329

Q92. Consider the following statements regarding General Agreement on Tariffs and Trade (GATT) and choose the correct options from the alternatives given below:

1. India was a founding member of GATT.
 2. GATT was headquartered at Geneva, Switzerland.
- (a) Only 1
 - (b) Only 2
 - (c) Both 1 and 2
 - (d) None of the above

Q93. Consider the following statements regarding World Trade Organisation (WTO) and choose the correct options from the alternatives given below:

1. WTO members need not to be full sovereign nation members.
 2. Liberia is the latest entrant in the members of WTO.
- (a) Only 1
 - (b) Only 2
 - (c) Both 1 and 2
 - (d) None of the above

Q94. Proprietary Ratio is the relationship between-

- (a) Total assets to tangible net worth
- (b) Capital or shareholders' funds to total tangible assets
- (c) Net fixed assets to long-term debts
- (d) either (a) or (b)

Q95. In case of a debt becoming bad, the amount should be credited to

- (a) Debtors account
- (b) Bad debts account
- (c) Cash Account
- (d) Sales A/c

Q96. In course of time Debt Equity Ratio can be made favourable by: –

- (a) Periodical payment of term loan instalments
- (b) Ploughing back of profits
- (c) Converting convertible debentures into share capital
- (d) All of the above

Q97. Dividends are usually paid on:

- (a) Called-up-capital
- (b) Subscribed-capital
- (c) Paid-up-capital
- (d) Issued capital

Q98. Goodwill in the Balance Sheet of a firm is recorded as:

- (a) Contingent liability
- (b) Current Asset
- (c) Non-Current Asset
- (d) Intangible Asset

Q99. 'Veer Guardian-2023' is a joint Air Exercise conducted between India and

- (a) Japan
- (b) Nepal
- (c) USA
- (d) Vietnam

Q100. Global Risk Report 2023 was recently released by

- (a) World Economic Forum
- (b) World Bank
- (c) UNDDR
- (d) UN Habitat

Q101. Recently seen in news "iKnife" is-

- (a) Malware
- (b) Cryptocurrency
- (c) Surgical instrument for Cancer removal
- (d) Unmanned Aerial vehicle

Q102. Consider the following statements regarding One Nation One Subscription (ONOS) initiative:

1. A One Nation One Subscription (ONOS) initiative is launched by Ministry of Education.
2. Under this scheme the people of India can have open access to national and international journal publications and research papers.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q103. Galwan Valley, which has been a flashpoint between China and India, lies in which of the following mountain ranges?

- (a) Ladakh Range
- (b) Karakoram Range
- (c) Greater Himalayas
- (d) Zaskar Range

Q104. United Nations Security Council resolution 1267 is related to

- (a) Al-Qaeda Sanctions committee
- (b) Israel-Palestine conflict
- (c) Peace process over Kashmir issue between India-Pakistan
- (d) Ukraine-Russia conflict

Q105. Consider the following statements regarding Pravasi Bharatiya Divas (PBD):

1. It commemorates the return of Mahatma Gandhi from South Africa to India in 1915
2. It is organized annually every year.
3. 17th PBD Convention is to be conducted in Indore, Madhya Pradesh

Which of the statements given above is/are correct?

- (a) 1 and 2
- (b) 2 and 3
- (c) 1 and 3
- (d) 1,2 and 3

Q106. In a race of 1 km, X can beat Y by 40m and Y can beat Z by 50m. With how much distance can X beat Z in a 0.75km race?

- (a) 54m
- (b) 66m
- (c) 52m
- (d) 62m

Q107. A and B run a 1km race. A gives B a start of 100m and still beats him by 15 second. If A runs at 6km/h, what is the speed of B?

- (a) 6.25 km/h
- (b) 5.5 km/h
- (c) 7 km/h
- (d) 5.25 km/h

Q108. Walking at $\frac{3}{5}$ th of his usual speed, a man reached his office 10 minutes late.

What is the time taken by him to reach the office at his usual speed?

- (a) 10 min
- (b) 20 min
- (c) 15 min
- (d) 18 min

Q109. In an office, 60% of the employees are men and rest women. Half of the employees are tall and half short. If 20% of the employees are men and short, and 60 employees are women and tall, the number of tall men employee are?

- (a) 120
- (b) 150
- (c) 90
- (d) 105

Q110. A provision shop-owner mixes 20kg of rice worth Rs. 32/kg and 15 kg of rice worth Rs. 35/kg and sold the mixture at 20% profit. What is the selling price of the mixed rice (approximate)?

- (a) Rs. 37/kg
- (b) Rs. 40/kg
- (c) Rs. 42/kg
- (d) Rs. 45/kg

Q111. If the radius of a circle is reduced by 30%, its area will be reduced by?

- (a) 45%
- (b) 50%
- (c) 51%
- (d) 55%

Q112. If 6 men or 9 women can finish a piece of work in 15 days, then 3 men and 6 women will do the same work in

- (a) 10 days
- (b) 13 days
- (c) $12\frac{1}{7}$ days
- (d) $12\frac{6}{7}$ days

Q113. A person has 54 coins of 50p, 1 rupee and 2 rupee coins in ratio 6 : 2 : 1. Which of the following combinations will yield the same amount of total money in order of 25p, 50p and 1 rupee and the total number of coins?

- (a) 6 : 3 : 2 & 95
- (b) 6 : 5 : 3 & 84
- (c) 6 : 5 : 2 & 90
- (d) None of these

Q114. A person bought two articles for Rs. 820. He sold one at a loss of 14% and the other at a profit of 14%. If the selling price of both the articles is equal, then the difference between their cost prices is

- (a) 88.68
- (b) 114.8
- (c) 120
- (d) 126.5

Q115. The difference between the circumference and the diameter of a circle is 15 m. What is the area of the circle?

- (a) 225 m^2
- (b) 165 m^2
- (c) 156 m^2
- (d) None of these

Q116. If the driving wheel of a bicycle makes 560 revolutions in travelling 1.1 km, then find the diameter of the wheel?

- (a) 31.5 cm
- (b) 30.5 cm
- (c) 62.5 cm
- (d) None of these

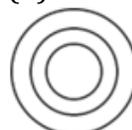
Q117. Chose the venn diagram which best illustrates the relationship among the three given classes.

India, Madurai, Islamabad

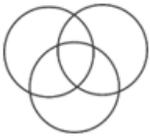
(a)



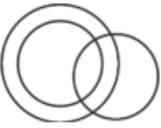
(b)



(c)



(d)



Q118. Choose the correct water image of the given question from the given options.

SCREEN

- (a) ƆSƆEEИ
(b) ƆSƆEEИ
(c) ƆSƆEEИ
(d) ИƆEEƆS

Q119. A merchant purchases a watch for 680 and fixes its marked price in such a way that after allowing a discount of 15%, he earns a profit of 30%. What is the marked price of the watch?

- (a) 1040
(b) 780
(c) 1160
(d) 920

Q120. A journey of 48km takes one hour less by a fast train A than by a slow train B. If the average speed of B is 24km/h less than the average speed of A, then find the speed of B in (Km/h)?

- (a) 24
(b) 48
(c) 36
(d) 18

Solutions

S1. Ans.(a)

Sol. Purge means rid (someone) of an unwanted feeling, memory, or condition.

Evacuate means remove (someone) from a place of danger to a safer place.

S2. Ans.(a)

Sol. Aground means (with reference to a ship) on or on to the bottom in shallow water

Stranded means drive or leave (a boat, sailor, or sea creature) aground on a shore.

S3. Ans.(b)

Sol. Decree means an official order that has the force of law.

S4. Ans.(c)

Sol. Commiserate: to sympathize.

Indifferent: having no particular interest.

S5. Ans.(c)

Sol. Imbroglio: an extremely confused, complicated, or embarrassing situation.

Composure: the state or feeling of being calm and in control of oneself.

S6. Ans.(d)

Sol. Bequest: the money or property that someone, after death, gives to someone else.

Withdraw: the action of withdrawing something.

S7. Ans.(c)

Sol. Within (Prep.) a stipulated time means before that length of time has passed. Hence, "**within**" will replace "**with**" in the given sentence.

S8. Ans.(c)

Sol. "To" will replace "in" because **inattentive** (Adj.) agrees with preposition "**to**".

S9. Ans.(a)

Sol. Replace "**men**" with "**man**" because after 'Many a', both the noun and verb in a sentence are always **singular**.

S10. Ans.(a)

Sol. A person without a home, job or property is called as Derelict.

S11. Ans.(b)

Sol. Excessive publicity - Hype

S12. Ans.(d)

Sol. Prepositional: formed with or functioning as a preposition.

Prerequisite: required as a prior condition.

Preposterous: contrary to reason or common sense; utterly absurd or ridiculous.

Prepossessing: attractive or appealing in appearance.

Hence out of the four adjectives, 'prepossessing' is the most appropriate choice.

S13. Ans.(b)

Sol. Warn a person **of** possible danger or a potential problem.

Warn a person **against** a fault.

Hence out of all four prepositions in options, 'of' is the correct choice.

S14. Ans.(c)

Sol. Gregarious: (of a person) fond of company; sociable.

Gratuitous: done without good reason; uncalled for.

Egregious: outstandingly bad; shocking.

Garrulous: full of trivial conversation.

S15. Ans.(c)

Sol. Reconcile 'to' situation.

Reconcile 'with' an opponent.

S16. Ans.(b)

Sol. Look about: to try to locate someone or something.

Live off: to survive or provide for one's needs by benefiting from someone or something.

Let up: (of something undesirable) become less intense.

Look on: watch without getting involved.

S17. Ans.(a)

Sol. Persecution: hostility and ill-treatment, especially because of race or political or religious beliefs; oppression.

Sternutation: the action of sneezing.

Ablution: an act of washing oneself.

Jubilation: a feeling of great happiness and triumph.

S18. Ans.(c)

Sol. Contradictory: mutually opposed or inconsistent.

Stationary: not moving or not intended to be moved.

Arbitrary: not done for any particular reason; chosen or done at random.

Ancillary: providing necessary support to the primary activities or operation of an organization, system, etc.

S19. Ans.(c)

Sol. Dressing-down - Give a scolding

S20. Ans.(c)

Sol. Cut the mustard - To perform well

S21. Ans.(a)

Sol. In MS Word, Margins, Size and Orientation is available in Page Setup under Page Layout Tab.

S22. Ans.(c)

Sol. Joystick is used to draw objects in Computer-Aided Design (CAD).

S23. Ans.(c)

Sol. CCFLs stands for Cold Cathode Fluorescent Lamps.

S24. Ans.(d)

Sol. User manual provides you detailed installation and un-installation instructions, system requirements, step-by-step operation, etc.

S25. Ans.(b)

Sol. A **device driver or hardware driver** is a group of files that enable one or more hardware devices to communicate with the computer's operating system. Without drivers, the computer would not be able to send and receive data correctly to hardware devices, such as a printer.

S26. Ans.(d)

Sol. **Satyashodhak Samaj** was a social reform society founded by Jyotirao Phule in Pune, Maharashtra in 1873.

S27. Ans.(a)

Sol. This movement was started by E.V. Ramaswamy Naicker in the mid-1920s. He sought to undermine the position of brahmin priests by formalising weddings without brahmin priests.

S28. Ans.(a)

Sol. Bal Gangadhar Tilak launched two newspapers – Kesari in Marathi and Mahratta in English languages.

S29. Ans.(c)

Sol. Bardoli Satyagraha was launched under the leadership of Sardar Vallabhbhai Patel in 1928 to address tax rate financial troubles in Bardoli taluka of Gujarat.

Under the leadership of Gandhiji, Ahmedabad Mill Strike was first hunger strike whereas Champaran and Kheda Satyagraha is regarded as first civil disobedience and first non-cooperation movement respectively.

S30. Ans.(b)

Sol. Russian expatriate Helena Blavatsky and American Colonel Henry Steel Olcott founded the Theosophical Society with attorney William Quan Judge and others in late 1875 in New York City.

S31. Ans.(b)

Sol. "The General Theory of Employment, Interest and Money," Keynes became an outspoken proponent of full employment and government intervention as a way to stop economic recession

S32. Ans.(a)

Sol. The International Labour Organization (ILO) is a United Nations agency whose mandate is to advance social justice and promote decent work by setting international labour standards. It was the first specialized agency of the UN. The ILO has 187 member states: 186 of the 193 UN member states plus the Cook Islands are members of the ILO. The headquarters of International Labour Organization is located in Geneva.

S33. Ans.(d)

Sol. According to the Act, the definition of Wages is as follows: 'Wages include all remunerations which are expressed in terms of money or are capable of being so expressed. Further, these are either by the way of salary allowances or otherwise. Inclusions in Wages

- Any amount which is payable under any award or settlement between the parties or an order of the court.
- Amounts that the employee is entitled to with respect to working overtime or on holidays or any leave period.
- Any additional remuneration as per the terms of employment – bonus, incentive, etc.
- The sum of money that the employee must receive due to the termination of his employment. Further, this sum is either payable under law or contract or instrument which specifies the payment of such a sum. Also, this may or may not include deductions. It also does not specify the time within which the firm needs to make the payment.
- Any sum to which the employee is entitled under any scheme that is framed under any law in force.

However, it does not include:

- Any bonus which does not form a part of the remuneration payable under the terms of employment. Or, a bonus which is not payable under any award or settlement between parties or an order of a court.

- The value of any house accommodation or the supply of water, light, medical attendance or any service which is excluded from the computation of wages under an order of the Government.
- The employer's contribution to any pension or provident fund and also the interest accrued thereon.
- Any traveling allowance or traveling concessions
- Any sum that the employee receives to defray special expenses due to the nature of his employment
- Gratuity was payable on the termination of employment in cases other than those specified in sub-clause (d).

S34. Ans.(a)

Sol. According to the Payment of Wages Act, 1936 - The total amount of deductions from wages of employees should not exceed 50%, but only in case of payments to co-operative societies, deduction from wages of employee can be made up to 75%. Fine should be imposed by the employer on employee with the approval of the state government or prescribed authority.

S35. Ans.(a)

Sol. This Act may be called the **Payment of Bonus Act, 1965**. It extends to the whole of India. Save as otherwise provided in this Act, it shall apply to – (a) every factory; and (b) every other establishment in which twenty or more persons are employed on any day during an accounting year.

S36. Ans.(a)

Sol. Heavy water and solid graphite is generally used to slow down the speed of neutrons so that they are captured and become effective to bring about the fission reaction.

S37. Ans.(c)

Sol. Dry cleaning is a cleaning process for clothing and textiles involves using a chemical solvent other than water. The solvent used for this purpose are trichloroethylene, carbon tetra chloride, tri chloroethane and benzene.

S38. Ans.(d)

Sol. Greenhouse gas, any gas that has the property of absorbing infrared radiation (net heat energy) emitted from Earth's surface and reradiating it back to Earth's surface, thus contributing to the greenhouse effect. Carbon dioxide, methane, and water vapour are the most important greenhouse gases. Methane is emitted during the production and transport of coal, natural gas, and oil. Methane emissions also result from livestock and other agricultural practices and by the decay of organic waste in municipal solid waste landfills.

S39. Ans.(b)

Sol. In-situ conservation is the method of conservation of species in their natural habitats. National Park, Wildlife Sanctuary and Biosphere Reserve are the sites of in-situ conservation. Ex-situ conservation is the preservation of components of biological diversity outside their natural habitats. This involves conservation of genetic resources, as well as wild and cultivated or species, and draws on a diverse body of techniques and facilities. Zoo and botanical gardens are the most conventional methods of ex-situ conservation. Other methods of ex-situ conservation are gene banks, in vitro plant tissue and microbial culture collections, captive breeding, etc.

S40. Ans.(d)

Sol. Protein is a long chain molecule composed of amino acids joined by peptide bonds. Protein is invariably have the general formula $RCH-NH_2-COOH$, where C is carbon, H is hydrogen, N is nitrogen, O is oxygen, and R is a group, varying in composition and structure, called a side chain. Hence, all of the above elements are present in the protein.

S41. Ans.(c)

Sol. Fossils are impressions of plants or animals embedded in rock and preserved. They may be in the form of a body or trace. The age of the fossils is determined by the Radioactive carbon dating technique in which the half-life of carbon and found radioactive elements is determined to calculate the age of a fossil. Age of fossil may be found out by determining the ratio of two isotopes of carbon and they are C-12 and C-14.

S42. Ans.(a)

Sol. Atoms that are not electrically neutral are called ions. There are three elements of which the atoms do not engage in chemical bonding for example: helium, neon and argon. It is because their outer shell is full and their energy is very low. So, atoms do not combine always to form molecule.

S43. Ans.(c)

Sol. Double-stranded DNA consists of two polynucleotides that are arranged such that the nitrogenous bases within one polynucleotide are attached to the nitrogenous bases within another polynucleotide by way of special chemical bonds called hydrogen bonds.

S44. Ans.(c)

Sol. Lipases are digestive enzymes that catalyse the hydrolysis of fat (lipid, triglyceride) into free fatty acids (FFA) and monoglycerides, molecules that can be absorbed into the bloodstream. Hydrolysis is any chemical reaction in which a molecule of water ruptures one or more chemical bonds.

S45. Ans.(c)

Sol. Vinegar used today is a diluted mixture of acetic acid(CH_3COOH) and water. Ethanoic acid is more commonly known by its common name of acetic acid. Vinegar is ubiquitous in the kitchen. It's an ingredient used in cooking as well as baking. Vinegar is an essential part of making salad dressings, a key flavor in a marinade, and can transform milk into a buttermilk substitute.

S46. Ans.(d)

Sol. Nature is governed by four fundamental forces - electromagnetic, strong, weak and gravitational. The weak and strong forces are effective only over a very short range and dominate only at the level of subatomic particles. Gravity and Electromagnetic force have infinite range.

S47. Ans.(c)

Sol. Paramagnetism is a form of magnetism whereby some materials are weakly attracted by an externally applied magnetic field, and form internal, induced magnetic fields in the direction of the applied magnetic field. They tend to move from weaker to the stronger part of the field. Iron is ferromagnetic; Hydrogen is diamagnetic; Oxygen is paramagnetic and Nitrogen is diamagnetic in nature.

S48. Ans.(d)

Sol. Densities of some common substances (in kg/m^3) are

Alcohol-790 kg/m^3 ; Aluminium-2,700 kg/m^3 ;
Copper-8,900 kg/m^3 ; Gold-19,300 kg/m^3 ; Lead-
11,300 kg/m^3 ; Mercury-13,600 kg/m^3 .

S49. Ans.(b)

Sol. Epsom salt is also known as magnesium sulfate. It's a chemical compound made up of magnesium, sulfur, and oxygen. It gets its name from the town of Epsom in Surrey, England, where it was originally discovered. Long known as a natural remedy for a number of ailments, Epsom salt has numerous health benefits as well as many beauty, household, and gardening-related uses.

S50. Ans.(a)

Sol. Acid rain usually forms high in the clouds where sulphur dioxide and nitrogen oxides react with water, oxygen, and oxidants. This rain is the mixture of a mild solution of sulphuric acid and nitric acid. The ecological effects of acid rain are most clearly seen in aquatic environments, such as streams, lakes, and marshes where it can be harmful to fish and other wildlife.

S51. Ans.(b)

Sol. The single system of courts refers to integrated features of Indian judiciary not the independent features. In order to ensure independence of Supreme Court, constitution has mentioned security of tenure of the judges, fixed service conditions for the judges, all the expenses of the Supreme Court charged on the Consolidated Fund of India, prohibition on discussion on the conduct of judges in the legislatures, ban on practice after retirement, power to punish for its contempt vested in the Supreme Court, separation of the judiciary from the executive, and so on.

S52. Ans.(c)

Sol. Constitution, which is the fundamental law of the land guarantees and protects the fundamental rights. They are also most essential for the all-round development (material, intellectual, moral and spiritual) of the individuals. So, both of them are the reasons to call fundamental rights as "fundamental".

S53. Ans.(b)

Sol. Fundamental Rights prevent the establishment of an authoritarian and despotic rule in the country, and protect the liberties and freedoms of the people against the invasion by the state. Hence, they are meant for promoting the ideal of political democracy. Directive Principles of State Policy are meant for the establishment of social and economic democracy.

S54. Ans.(a)

Sol. Estimates Committee has 30 members. All members are from Lok Sabha only. Public Undertakings Committee has 22 members (15 from the Lok Sabha and 7 from the Rajya Sabha). Public Accounts Committee has 22 members (15 from the Lok Sabha and 7 from the Rajya Sabha). Business Advisory Committee of Lok Sabha consists of 15 members including the Speaker as its chairman. In the Rajya Sabha, it has 11 members including the Chairman as its ex-officio chairman.

S55. Ans.(d)

Sol. It was the First Amendment in 1951 along with Article 31-B that marked the addition of the Ninth Schedule to the Constitution. This was intended to protect the land reform laws from being challenged in the courts on the ground of violation of Fundamental Rights.

S56. Ans.(b)

Sol. The features borrowed from the Australian constitution are - concurrent List, freedom of trade, commerce and intercourse, and joint sitting of the two houses of Parliament.

S57. Ans.(a)

Sol. Bonded Labour System (Abolition) Act is the result of the ratification by India of Forced Labour Convention, 1930.

S58. Ans.(a)

Sol. The ILO has integrated many of its existing technical projects into five flagship programmes, designed to enhance the efficiency and impact of its development. The Headquarters of International Labour Organization is located in Geneva

S59. Ans.(c)

Sol. In the 1870s and 1880s, the growing trade union movement began a series of protests against foreign labour.

S60. Ans.(b)

Sol. The ongoing globalization in the country needs reforms in our labour laws. The forces oppose changes in the existing labour legislations is labour and Trade Unions.

S61. Ans.(c)

Sol. Productivity bargaining first appeared in Britain in the 1960's; by the 1970's, productivity bargaining, despite its initial success, was rapidly declining.

S62. Ans.(a)

Sol. Query allows us to access certain records in database.

S63. Ans.(b)

Sol. Word Count is available in Proofing under Review tab.

S64. Ans.(c)

Sol. Peopleware refers to the role of people in the computing process. While hardware and software make up a computer system, both are designed to be used by humans. Therefore, peopleware is sometimes considered the third component of computing.

S65. Ans.(a)

Sol. Swapping concept comes in terms of process scheduling. Scheduler removes process from CPU for duration and reduces the degree of multiprogramming. And after some time, these processes can again be reintroduced into main memory.

S66. Ans.(d)

Sol. The Software that you can use to create a budget is called Spreadsheet software.

S67. Ans.(d)

Sol. In the Gupta period, land taxes increased in number and those on trade and commerce decreased. In some parts of the country, forced labour was also practised. Rest all of the above statements are correct.

S68. Ans.(a)

Sol. The Shore Temple of Mahabalipuram/ Mamallapuram was built during the reign of the Pallavan king Rajasimha/ Narasimhavarman II. It is built with blocks of granite, dating from the 8th century AD.

S69. Ans.(c)

Sol. In Ellora Caves there are 17 Hindu caves, 12 Buddhist and 5 Jain caves with deities, carvings and even monasteries depicting the mythology of each religion. Elephanta Caves are a UNESCO World Heritage Site and a collection of cave temples predominantly dedicated to the Hindu God Shiva, hence belong to Shaivite faith of Hinduism.

S70. Ans.(a)

Sol. Kathopanishad is the conversation between Nachiketa and Yamraj (God of death). Nachiketa was a seeker, and Yamraj was a Guru (knower of secrets). The path described by Yama in the Kathopanishad is the path of yoga, whose aim is the spiritual union between the individual soul and the supreme Self of all.

S71. Ans.(a)

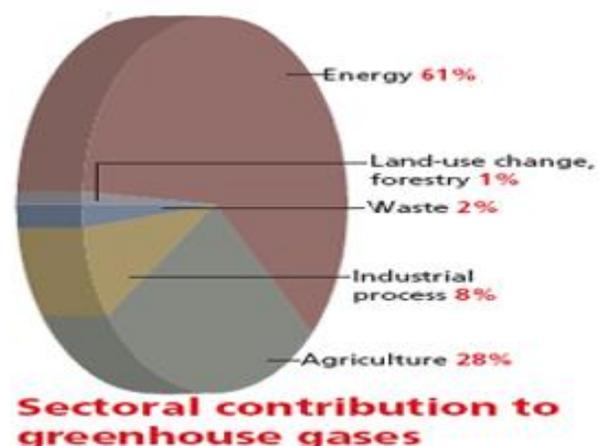
Sol. Jagat Guru title was given to Harivijay Suri by Akbar. He belonged to Jain religion.

S72. Ans.(a)

Sol. Durgeshnandini is a Bengali historical romance novel written by Indian writer Bankim Chandra Chattopadhyay in 1865. It is a story of the love triangle between Jagat Singh, a Mughal General, Tilottama, the daughter of a Bengali feudal lord and Ayesha, the daughter of a rebel Pathan leader against whom Jagat Singh was fighting. The story is set in the backdrop of Pathan-Mughal conflicts that took place in south-western region of modern-day Indian state of Paschimbanga (West Bengal) during the reign of Akbar.

S73. Ans.(a)

Sol. According to Economic Survey 2020, the sectoral contribution to India's national Greenhouse gas emissions are mentioned in the following pie-chart.



S74. Ans.(c)

Sol. Written in the last years of Sir Surendranath Banerjee's life, "A Nation in Making" is not only the autobiography of a pioneering leader in Indian politics but also a commentary on public life. This book is an excellent treatise of history in the making set forth in crisp and lucid English hardly heard today. Banerjee's commands his flow of words towards precise and comprehensive utterances, often pithy, containing the intellectual flavour of his education abroad.

S75. Ans.(d)

Sol. "Dandeli-anshi Tiger Reserve" is located in Uttara Kannada district, in Karnataka, India. The park is a habitat of Bengal tigers, black panthers and Indian elephants, amongst other distinctive fauna.

S76. Ans.(d)

Sol. Sholas are the local name for patches of stunted tropical montane forest found in valleys amid rolling grassland in the higher montane regions of South India. Shola forests are found in the higher elevation hill regions of the Nilgiris, Anaimalai, Munnar, Palni hills, Meghamalai, Agasthyamalai to the south and the Malnad and associated ranges in parts of Wayanad, Coorg, Baba Budangiri and Kudremukh up the north, in the states of Karnataka, Kerala and Tamil Nadu. Although generally said to occur above 2000 meters above sea level, shola forests can be found at 1600 meters elevation in many hill ranges (e.g. Biligiriranga Hills).

S77. Ans.(d)

Sol. The International Monetary Fund (IMF) is an international organization headquartered in Washington, D.C. to foster global monetary cooperation, secure financial stability, facilitate international trade, promote high employment and sustainable economic growth, and reduce poverty around the world while periodically depending on the World Bank for its resources.

World Bank Group is a family of five international organizations with its headquarter at Washington D.C. World Bank is group of International Bank for Reconstruction and Development (IBRD) and International Development Association(IDA). To become a member of the World Bank, under the IBRD Articles of Agreement, a country must first join the International Monetary Fund (IMF). Membership in IDA, IFC and MIGA are conditional on membership in IBRD.

S78. Ans.(a)

Sol. Primary deficit refers to the difference between the current year's fiscal deficit and interest payment on previous borrowings. It indicates the borrowing requirements of the government, excluding interest. It also shows how much of the government's expenses, other than interest payment, can be met through borrowings.

S79. Ans.(d)

Sol. Fiscal Consolidation refers to the policies undertaken by Governments (national and sub-national levels) to reduce their deficits and accumulation of debt stock. Improved tax revenue realization and better aligned expenditure are the components of fiscal consolidation as the fiscal deficit reaches at a manageable level. So, all of the above measures can be used for fiscal consolidation in the economy.

S80. Ans.(b)

Sol. The Social Progress Index is the first holistic measure of a country's social performance that is independent of economic factors. The index is based on a range of social and environmental indicators that capture three dimensions of social progress: Basic Human Needs, Foundations of Wellbeing, and Opportunity. The index is published by the nonprofit Social Progress Imperative, and is based on the writings of Amartya Sen, Douglass North, and Joseph Stiglitz.

S81. Ans.(a)

Sol. A tax is said to be buoyant if the tax revenues increase more than proportionately in response to a rise in gross domestic product(GDP). Developed country tends to be more tax buoyant as compared to developing country because developing country like India has relatively low Tax to GDP ratio. It is because of various tax exemptions that are given by the governments of developing country for the social welfare and progress of the society.

S82. Ans.(b)

Sol. Angel investors are individuals who seek to invest at the early stages of startups. These types of investments are risky and usually do not represent more than 10% of the angel investor's portfolio. They are regulated by Securities and Exchange Board of India. They invest their own money unlike a venture capitalist who invests public money.

S83. Ans.(c)

Sol. The current account on the balance of payments measures the inflow and outflow of goods, services, investment incomes and transfer payments. The main components of the current account are: trade in goods (visible balance), trade in services (invisible balance), e.g. insurance and services, investment incomes, e.g. dividends, interest and migrants remittances from abroad, Net transfers – e.g. international aid.

S84. Ans.(a)

Sol. The Sarvodaya Movement was started by Vinoba Bhave on 18 April 1951 at Pochampally village in Nalgonda district who was directly influenced by Mahatma Gandhi. The meaning of Sarvodaya is a combination of two words “Sarva” meaning one and all, and “Uday” meaning welfare or uplift. Mahatma Gandhi borrowed it from the philosophy of Ruskin and became a part of his constructive philosophy for the welfare of the people of rural India. It was subsequently adopted by Acharya Vinoba Bhave. In order to implement high Ideals of Sarvodaya, Vinoba Bhave established Sarvodaya Samaj.

S85. Ans.(c)

Sol. The Royal Commission on Labour or the Whitley Commission on Labour was set up in 1929 to inquire into the existing conditions of labour in industrial undertakings and plantations in India. The Commission was chaired by John Henry Whitley. The commission submitted its report in 1931. The report surprised many by concurring with the criticisms of Mahatma Gandhi and others that poverty was the cause of India's social and industrial problems. It was also critical of British employers' role in perpetuating the problems.

S86. Ans.(b)

Sol. The Portuguese had established their first fort at Cochin in 1503.

S87. Ans.(c)

Sol. National Social Conference was founded by M.G. Ranade and Raghunath Rao as a social reform cell of the Indian National Congress. Its first session was held in Madras in December 1887. The Conference met annually alongside the annual session of Indian National Congress and focused on social reform. It launched the famous “Pledge Movement” to inspire people to take an oath to prohibit child marriage.

S88. Ans.(d)

Sol. It was the First Amendment in 1951 along with Article 31-B that marked the addition of the Ninth Schedule to the Constitution. This was intended to protect the land reform laws from being challenged in the courts on the ground of violation of Fundamental Rights.

S89. Ans.(b)

Sol. The features borrowed from the Australian constitution are - concurrent List, freedom of trade, commerce and intercourse, and joint sitting of the two houses of Parliament.

S90. Ans.(c)

Sol. The salaries and allowances of the judges of a high court are charged on the consolidated fund of the state. The pension of a high court judge is charged on the Consolidated Fund of India and not the state.

S91. Ans.(c)

Sol. According to the Article 324, the superintendence, direction and control of the preparation of the electoral rolls for, and the conduct of, all elections to Parliament and to the Legislature of every State and of elections to the offices of President and Vice President held under this Constitution shall be vested in a Commission (referred to in this Constitution as the Election Commission).

S92. Ans.(c)

Sol. GATT was adopted in 1947 by 23 countries to establish a free and fair international trading regime among member countries based on dismantling of trade barriers. It came into existence in 1948 and India was its founding member.

S93. Ans.(a)

Sol. WTO members need not to be full sovereign nation members, instead they must be a customs territory with full autonomy in the conduct of their external commercial relations. Afghanistan is the latest entrant in the members of WTO and became its 164th member in 2016.

S94. Ans.(b)

Sol. Proprietary Ratio also known as equity ratio indicates the relationship between the owners' funds and total assets. A lower ratio indicates greater risk to the creditors. If the owners' funds are less than fixed assets, then that means a part of fixed assets is financed by the creditors either long term or short term.

S95. Ans.(a)

Sol. In case the bad debts arise on account of amount unrecovered for the sale made earlier then the same should be credited to the respective debtors account. The unrecoverable amount is considered as bad debts. Bad debts are loss to the organization and should be debited to profit & loss account by crediting the customer account.

S96. Ans.(d)

Sol. A good debt to equity ratio is around 1 to 1.5. However, the ideal debt to equity ratio will vary depending on the industry because some industries use more debt financing than others. Capital-intensive industries like the financial and manufacturing industries often have higher ratios that can be greater than

S97. Ans.(c)

Sol. Dividends are usually paid on Paid up capital. Dividends are paid on the paid-up capital. Paid up Capital is the capital money actually received by the company against the shares sold. Hence, the dividends are paid only to those shareholders who have paid money.

S98. Ans.(d)

Sol. Goodwill is the example of Intangible Assets. Goodwill is recorded as an intangible asset on the acquiring company's balance sheet under the long-term assets account. Goodwill is considered an intangible (or non-current) asset because it is not a physical asset like buildings or equipment.

S99. Ans.(a)

Sol. To promote Air Defence cooperation between the countries, India and Japan are all set to hold the joint Air Exercise, 'Veer Guardian-2023' involving the Indian Air Force and Japan Air Self Defence Force (JASDF) at Hyakuri Air Base, Japan from 12 January 2023 to 26 January 2023. The Indian contingent participating in the air exercise will include four Su-30 MKI, two C-17 & one IL- 78 aircraft, while the JASDF will be participating with four F-2 & four F-15 aircraft.

S100. Ans.(a)

Sol. World Economic Forum (WEF) has released Global Risk Report 2023.

S101. Ans.(c)

Sol. A recently developed surgical knife capable of identifying tumours can detect endometrial cancer within seconds, allowing people with healthy uterus to get the 'all-clear' faster. The researchers found that a surgical tool called iKnife could accurately detect the presence of endometrial cancer. The iKnife is already being used to spot breast and brain cancer.

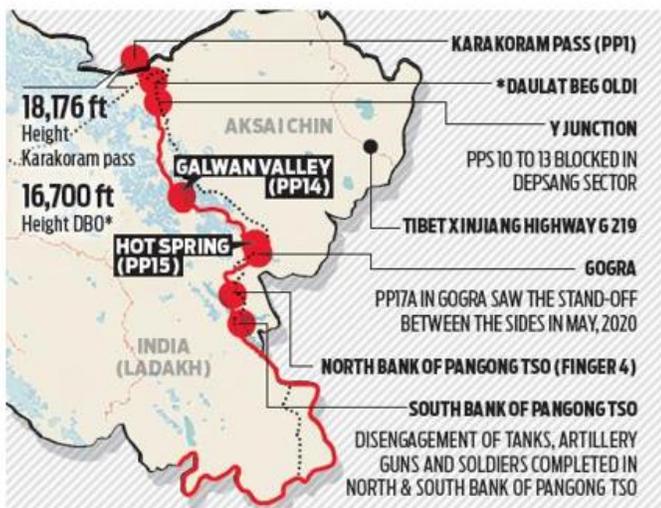
S102. Ans.(b)

Sol. In an excellent piece of news for research scholars in India, the Ministry of Education (MoE) has announced a One Nation One Subscription (ONOS) initiative through which people of India can have open access to national and international journal publications and research papers from April 1, 2023. Not just schools, colleges, universities and research institutes, the ONOS initiative will benefit everyone in the nation. This initiative is by the Office of Scientific Adviser to the Government of India.

The ONOS intends to sign national licenses with most of the prominent STEM publishers and database producers of the world whose contents are already being subscribed by various institutions of higher education and research organizations either directly or through government-funded consortia".

S103. Ans.(b)

Sol.

**S104. Ans.(a)**

Sol. United Nations Security Council resolution 1267 was adopted unanimously on 15 October 1999. The UNSC designated Osama bin Laden and associates as terrorists and established a sanctions regime to cover individuals and entities associated with Al-Qaida, Osama bin Laden and/or the Taliban wherever located. Recently, the UN Security Council's 1267 ISIL (Da'esh) and Al Qaeda Sanctions Committee added 68-year-old Makki to its list of designated terrorists late Monday, subjecting him to an assets freeze, travel ban and arms embargo, after years of efforts by India and its allies.

S105. Ans.(c)

Sol. 9 January is commemorated as Pravasi Bharatiya Divas (PBD) the return of Mahatma Gandhi from South Africa to India in 1915. To mark this day, the tradition of celebrating Pravasi Bharatiya Divas (PBD) started in 2003.

1st PBD Convention was organized on 9 January 2003 to mark the contribution of the overseas Indian community to the development of India. Since 2015, under a revised format, PBD Convention has been organized once every 2 years. The 17th PBD Convention will be held from 8 - 10 January 2023 in Indore, Madhya Pradesh. The theme of the 17th PBD is "Diaspora: Reliable Partners for India's Progress in Amrit Kaal".

S106. Ans.(b)

Sol.

ratio of distance

$$X : Y \qquad Y : Z$$

$$1000 : 960 \qquad 1000 : 950$$

$$X : Y : Z$$

$$125 : 120 : 114$$

ratio of distance of X and Z

$$\frac{X}{Z} = \frac{125 \times 6}{114 \times 6} = \frac{750}{684}$$

so, X beat Z by 66m.

S107. Ans.(d)

Sol.

speed of A = 6km/h

1h → 6km

$$1\text{sec.} = \frac{6000}{60 \times 60}$$

$$15\text{sec.} = \frac{60}{36} \times 15 = 25\text{m}$$

	Distance	Speed
A	1000	8
B	875	7

8 → 6
 7 → $\frac{6}{8} \times 7$
 $= \frac{42}{8}$
 = 5.25km/h

S108. Ans.(c)

Sol.

Speed	Time
3	5
5	3

10 min
 2

1 - 5

usual time 3 → 15 min.

S109. Ans.(a)

Sol.

Let total employees = 100

M W

60 40

short men = 20

short women = 50 - 20 (∵ Total short are half = 50)
 = 30

so tall women = 40 - 30
 = 10 → 60 (given)
 ×6

1 → 6

tall man = 40 - 20
 = 20 → 120
 ×6

S110. Ans.(b)

Sol.

$$= \frac{20 \times 32 + 15 \times 35}{35} \times \frac{120}{100} = \frac{1398}{35}$$

= Rs. 40 /kg

S111. Ans.(c)

Sol.

$$= -30 - 30 + \frac{30 \times 30}{100}$$

$$= -60 + 9$$

$$= -51$$

So, area will be reduce by 51%

S112. Ans.(d)

Sol.

$$6m = 9w$$

$$\frac{m}{w} = \frac{3}{2} \text{ (efficiency)}$$

$$\text{Total work} = 6m \times 15$$

$$= 90$$

$$3 \text{ men} + 6 \text{ women} = 3 \text{ men} + 4 \text{men}$$

$$7 \text{ men will do} = \frac{90}{7}$$

$$= 12 \frac{6}{7} \text{ days.}$$

S113. Ans.(b)

Sol.

50p	1 rupee	2 rupee	
6 × 6	2 × 6	1 × 6	→ 9 × 6 coin
36	12	6	→ 54 coins

$$\text{Rupee} \rightarrow 18 + 12 + 12$$

$$\rightarrow 42$$

25p	50p	1 rupee	
6	5	3	= 14 coin
*6 (1.5)	2.5	3	= 7 rupee × 6 = 42
→ 36	30	18	= 84 coins.

S114. Ans.(b)

Sol.

Let Rs. 100 is the cp of each article.

	cp	sp
14% profit →	100	114
14% loss →	100	86
50 × 57	43 × 57	
50 × 43	57 × 43	

$$700 < \frac{2850}{2150} \times 2451 > \text{both are same}$$

$$5000$$

$$5000 - 820$$

$$700 = \frac{820}{5000} \times 700$$

$$= \frac{820 \times 7}{50}$$

$$= \frac{574}{5} = 114.8$$

S115. Ans.(d)

Sol.

ATQ,

$$(2\pi r - 2r) = 15$$

$$2r \left(\frac{22}{7} - 1 \right) = 15 \Rightarrow r = \frac{7}{2}$$

$$\pi r^2 = \frac{22}{7} \times \frac{7}{2} \times \frac{7}{2} = 38.5 \text{ m}^2$$

S116. Ans.(c)

Sol.

ATQ.

$$\pi D \times 560 = 1.1 \times 1000$$

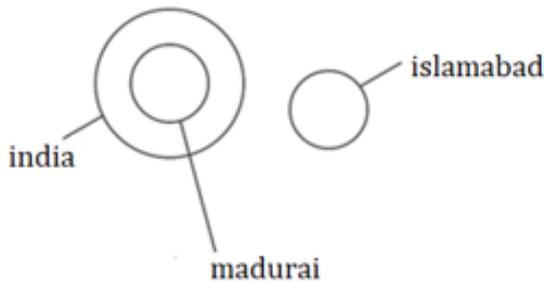
$$\Rightarrow \pi D \times 560 = 1100$$

$$\therefore D = \frac{110 \times 7}{56 \times 22}$$

$$= \frac{5}{8} \text{ m} = \frac{5 \times 100}{8} \Rightarrow 62.5 \text{ cm}$$

S117. Ans.(a)

Sol.



S118. Ans.(b)

S119. Ans.(a)

Sol.

CP	MP
100-dis.	100+prof.
100-15	100+30
85	130
85 ————— 680	
130 —————>	$\frac{680}{85} \times 130 = 1040$

S120. Ans(a)

Sol.

Speed time

A S+24 t-1

B S t

$$D = S \cdot T$$

$$48 \Rightarrow (S + 24)(t - 1) = st$$

$$St - s + 24t - 24 = st$$

$$24t = s + 24$$

$$t = 1 + \frac{s}{24}$$

$$\therefore st = 48$$

$$s = \frac{48}{t}$$

$$t = 1 + \frac{48}{t \cdot 24}$$

$$t = 1 + \frac{2}{t}$$

$$t^2 - t - 2 = 0$$

$$t^2 - 2t + t - 2 = 0$$

$$t(t - 2) + 1(t - 2)$$

$$(t - 2)(t + 1) = 0$$

$$t = 2$$

$$s = \frac{48}{2}$$

Speed of B $\rightarrow S = 24 \text{ km/h}$

ALTERNATIVE OPTION - go through the option to tackle easily.

