

1. Match the following-

Directive Principles

- i. Organisation of village panchayats
- ii. Uniform Civil Code for citizens
- iii. Separation of the Judiciary from the Executive
- iv. Promotion of International peace

Constitutional Articles

- a. Article 44
- b. Article 40
- c. Article 51
- d. Article 50

Choose the correct match:

- A) i-a, ii-c, iii-d, iv-b
- B) i-b, ii-a, iii-c, iv-d
- C) i-b, ii-a, iii-d, iv-c
- D) i-a, ii-b, iii-c, iv-d

2. The Right to elementary education was made a Fundamental right under Article-21A through which of the following Constitutional Amendment Acts?

- A) 42nd Amendment Act
- B) 44th Amendment Act
- C) 86th Amendment Act
- D) 97th Amendment Act

3. Consider the following statements about the Fundamental Duties (Part IV-A) and select the INCORRECT statements-

- I. These Duties were part of the original Constitution adopted in 1950.
- II. These Duties can always be enforced through Writ jurisdiction in the court of law.
- III. Promoting Scientific temper and spirit of enquiry is one of the Fundamental Duties.

- A) I only
- B) II only
- C) I and II only
- D) All of the above

4. Which of the following statements are correct about Direct democracy and Indirect democracy?

- I. In Indirect democracy, people themselves vote on every legislation.
- II. Recall, Initiative and Plebiscite are the instruments of Direct democracy.
- III. Gram sabhas in the villages are the classic example of the functioning of Direct democracy in India.
- IV. Direct democracy is also known as Representative democracy, where people elect their representative leaders to make laws.

- A) I and III only
- B) II and III only
- C) I, III and IV only
- D) All of the above

5. Which of the following pairs are correctly matched-

Provisions vs Legal/Constitutional Sources

- I. Conduct of elections of President and Vice President — Representation of the People Act, 1950
- II. Disqualifications for contesting elections — Representation of the People Act, 1951
- III. Lowering the voting age from 21 to 18 years — 61st Constitutional Amendment Act, 1988

- A) I only
- B) I and II only
- C) II and III only
- D) All of the above

6. Who has the final authority to issue symbols to the political parties and solve disputes between the factions of a party claiming the same symbol?

- A) Parliament of India
- B) Supreme Court of India
- C) Ministry of Law and Justice
- D) Election Commission of India

12. A ship is sailing from the International Date Line on Wednesday, from East to West (from America to Russia). What will happen to the day or date on the ship?
- A) Date will remain Wednesday (same day)
 B) Date will change to Tuesday (one day back)
 C) Date will change to Thursday (one day forward)
 D) Day remains the same, only the time changes
13. On December 22nd, Winter Solstice in the Northern Hemisphere, which of the following statements stands true?
- A) The sun never sets at Arctic Circle
 B) The sun never sets at the Antarctic Circle
 C) The sun stands directly over the Tropic of Cancer
 D) The Northern Hemisphere receives more insolation than the southern hemisphere
14. As one ascends from Jammu plains (300 m) to the Himalayas (4000 m), what would be the correct ecological sequence of the forest types?
- A) Tropical thorns - Himalayan moist temperate - sub-tropical pine - Alpine meadows
 B) Sub-tropical pine - Tropical thorns - Alpine meadows - Himalayan moist temperate
 C) Tropical thorns - Sub-tropical pine - Himalayan moist temperate - Alpine Meadows
 D) Alpine meadows - Himalayan moist temperate - Sub-tropical pine - Tropical thorns
15. The Forest Conservation (Amendment) Act, 2023, exempted which of the following projects from the prior approval of the Central government?
- A) When forest land is diverted for constructing any strategic linear projects of national importance within 100 km of India's borders
 B) When forest land is diverted for constructing any security-related infrastructure upto 10 hectares
 C) Public utility projects as specified by the central government, not exceeding 5 hectares in a left-wing extremism-affected area
 D) All of the above
16. Match the following Wildlife sanctuaries with the districts they are located in-
- | Wildlife Sanctuaries | Specific Districts |
|----------------------------------|---------------------------|
| i. Hirapora sanctuary | a. Reasi |
| ii. Rajparian (Daksum) sanctuary | b. Shopian |
| iii. Trikuta sanctuary | c. Anantnag |
- Choose the correct match:**
- A) i-a, ii-c, iii-b
 B) i-b, ii-a, iii-c
 C) i-b, ii-c, iii-a
 D) i-a, ii-b, iii-c

23. Match the following:

Column - I

- i. Firmware
- ii. Utility Software
- iii. Device Driver
- iv. Compiler

Column - II

- a. Translates high-level language into machine code
- b. Controls communication between operating system and hardware device
- c. Stored permanently in ROM to initialize hardware
- d. Performs system maintenance tasks like disk cleanup

Choose the correct option:

- A) i-c, ii-d, iii-b, iv-a
- C) i-d, ii-b, iii-a, iv-c

- B) i-b, ii-a, iii-c, iv-d
- D) i-a, ii-c, iii-d, iv-b

24. A student is using a computer with 8 GB RAM. He opens: a web browser with 25 tabs, a video editing software, a music player, a code editor. After some time, the system becomes slow, but it does NOT crash. The hard disk activity light keeps blinking continuously even though he is not saving or opening files. Which of the following is the most accurate explanation?

- A) The operating system has stopped multitasking and is running programs one by one
- B) The CPU cache memory is full, so the system is waiting for space to free up
- C) The operating system is using virtual memory and swapping data between RAM and disk
- D) The BIOS is reallocating hardware resources dynamically

25. A government launches a system where: Citizens apply for documents online, Applications are automatically verified using databases, SMS/email updates are sent automatically, Officials approve requests digitally, Data is stored centrally and accessed across departments. Which of the following best explains the real contribution of Information Technology (IT) in this system?

- A) IT only replaces paper-based records with digital files
- B) IT reduces manpower by completely eliminating human decision-making
- C) IT integrates communication, data processing, storage, and automation
- D) IT mainly provides internet access so citizens can submit forms online

26. A student uploads a PDF file to an online PDF-to-JPG converter website. After conversion, he downloads the JPG files but later notices: the images are blurred, file size is much larger than expected, text cannot be copied anymore. Which of the following is the most accurate reason?

- A) The PDF was converted into raster images
- B) The website reduced internet speed
- C) The browser changed the file extension
- D) The file was uncompressed using ZIP format

27. Which of the following statements is true regarding KMZ files and geo-tagged photos?
- A) A KMZ file stores only image files with location names
 - B) Geo-tagging embeds latitude and longitude inside image metadata
 - C) KMZ files cannot contain coordinate information
 - D) Uploading a geo-tagged photo automatically creates a KMZ file
28. Which of the following statements is correct regarding computer viruses and modern antivirus systems?
- A) A virus can execute automatically without user action once present in memory
 - B) Signature-based antivirus detects only previously identified malware patterns
 - C) Online registration guarantees protection against zero-day attacks
 - D) A firewall and antivirus perform exactly the same function
29. Which of the following is incorrect regarding the use of modern computer applications in field operations of a Forest Department?
- A) Mobile apps are used for taking photographs of trees
 - B) GIS-enabled apps integrate GPS data, satellite imagery
 - C) Forest apps replace the need for physical field inspections completely
 - D) Field applications work without network or data synchronization
30. In an e-Office system, a confidential file is sent digitally from a section officer to a higher authority. The department wants to ensure that only the intended officer can read the file during transmission. Which of the following ensures confidentiality during transmission?
- A) Applying a digital signature to the document using a public key infrastructure
 - B) Encrypting the file using the recipient's public key
 - C) Adding a watermark to the document
 - D) Scanning the file before sending it
31. What does the idiom "break the ice" mean?
- A) To build a wall
 - B) To start a conversation
 - C) To cause a disruption
 - D) To make a mistake
32. What does the idiom "hit the nail on the head" mean?
- A) To criticize someone harshly
 - B) To miss the target
 - C) To hit something hard
 - D) To be exactly right or accurate
33. Select the most appropriate synonym of the underlined word.
The speaker's argument was compelling enough to persuade the audience.
- A) Convincing
 - B) Boring
 - C) Criticizing
 - D) Harsh

34. Select the most appropriate synonym of the underlined word.
His explanation was ambiguous, leaving the audience confused.
- A) Direct
B) Clear
C) Uncertain
D) Precise
35. Rearrange the parts of the sentence in correct order.
P. often determines the success of collective efforts
Q. effective leadership
R. by aligning individual goals
S. with a shared vision and purpose
- A) QPRS
B) QRPS
C) PQRS
D) PSQR
36. Rearrange the parts of the sentence in correct order.
P. cannot be addressed through isolated actions
Q. complex environmental problems
R. that require coordinated global efforts
S. but demand long-term strategic planning
- A) QPSR
B) QRPS
C) PQRS
D) PSQR
37. I am going to _____ concert tomorrow.
- A) A
B) On
C) An
D) None of the above
38. At _____ equator, sunrise occurs at the same time each day.
- A) A
B) The
C) An
D) None of the above
39. The doctor gave me a prescription _____ my cough.
- A) For
B) To
C) A
D) With
40. My watch is _____ the table.
- A) In
B) On
C) For
D) None of the above
41. Volume of a cuboid of length (l), width (b) and height (h) is
- A) lbh
B) lb + bh + hl
C) 2(l + b) h
D) 2(lb + bh + hl)
42. The area of a rhombus whose diagonals are of lengths 10 cm and 8.2 cm is
- A) 82 cm²
B) 410 cm²
C) 41 cm²
D) 820 cm²

72. A metal rod is heated at one end, and the temperature at the other end rises slowly over time. At the same time, a sealed glass flask filled with water is placed over a flame, and the water temperature rises quickly. Which of the following statements is correct regarding modes of heat transfer in each scenario (Rod and Flask)?
- A) Rod: Convection; Flask: Conduction and Radiation
B) Rod: Conduction; Flask: Convection and Radiation
C) Rod: Conduction; Flask: Convection
D) Rod: Radiation; Flask: Convection
73. An object 2 m tall is placed at a distance of 50 cm in front of a convex lens. The lens has a power of +5 D. Calculate the height and nature of the image formed by the lens.
- A) 1 m, virtual and erect
B) 1.33 m, real and inverted
C) 1.5 m, real and inverted
D) 1.6 m, virtual and erect
74. Which of the following statements about cells is NOT true?
- A) Plasma membrane is selectively permeable that regulates the movement of nutrients into and out of the cell
B) Cell interior contains many specialized membrane-bound organelles
C) Mitochondria are organelles responsible for energy transactions needed for cell survival
D) Ribosomes are membrane-bound organelles responsible for protein synthesis in eukaryotic cells
75. Which of the following metals produce hydrogen gas on reaction with dilute nitric acid?
- A) Copper (Cu)
B) Zinc (Zn)
C) Magnesium (Mg)
D) All of the above
76. Which of the following statements about conventional sources of energy and their improvements is true?
- A) Thermal power plants cannot exceed 35% efficiency, even with advanced boiler technology
B) Supercritical and ultra-supercritical boilers allow coal power plants to achieve higher efficiency
C) Hydroelectric power plants cannot improve energy output once the dam is built
D) Efficiency of petroleum refining is solely determined by the quality of crude oil, not technology
77. Which of the following statements about non-conventional sources of energy and their improvements is correct?
- A) Commercial Solar panels can only convert 10-12% of sunlight into electricity
B) Wind energy efficiency improves by using larger and more aerodynamically designed blades
C) Tidal energy cannot be harnessed effectively due to the predictability of tides
D) Geothermal energy output is independent of drilling technology and heat extraction methods

78. Match Column-I with Column-II

Column - I

- i. Cesium
- ii. Zinc
- iii. Iodine
- iv. Graphite

Column - II

- a. A non-metal that is lustrous
- b. A metal that is brittle
- c. A metal that has a low melting point
- d. A non-metal that is a good conductor of electricity

Choose the correct option:

- A) i-c, ii-b, iii-a, iv-d
- B) i-b, ii-c, iii-a, iv-d
- C) i-b, ii-c, iii-d, iv-a
- D) i-c, ii-b, iii-d, iv-a

79. Metals P, Q, and R have different positions in the activity series. Metal P reacts vigorously with water, metal Q reacts slowly with acids, and metal R does not react with water or acids. Their oxides are PO \blacksquare , QO, and R \blacksquare O \blacksquare , respectively. Considering their reactivity and the methods typically used for extraction, which of the following correctly matches the metal with its most suitable extraction method?

- A) P - Electrolysis of molten oxide; Q - Reduction by carbon; R - Reduction by carbon
- B) P - Reduction by carbon; Q - Electrolysis of molten oxide; R - Electrolysis of molten oxide
- C) P - Electrolysis of molten oxide; Q - Reduction by carbon; R - Native metal, no extraction needed
- D) P - Reduction by carbon; Q - Native metal, no extraction needed; R - Electrolysis of molten oxide

80. Which of the following organisms exhibits parasitic nutrition?

- A) Nitrosomonas
- B) Amoeba
- C) Plasmodium
- D) Paramecium

81. Which of the following statements about transportation of water, food and minerals in plants is NOT correct?

- A) The ascent of sap in tall trees primarily occurs due to transpiration pull, cohesion and adhesion forces rather than root pressure alone
- B) Xylem transports water and dissolved minerals mainly in an upward direction, while phloem can transport food both upward and downward
- C) Phloem transport requires metabolic energy, whereas xylem transport is largely a passive process
- D) Minerals absorbed by roots move through phloem vessels to reach the leaves where they are utilized for photosynthesis

82. Which of the following statements about excretion in plants and animals is correct?

- A) Plants lack specialized excretory organs, so all metabolic wastes are removed exclusively through stomata by diffusion
- B) Plants assimilate ammonia into amino acids and can store waste in leaves, bark and vacuoles
- C) In mammals, the primary nitrogenous waste is uric acid, which requires minimum water for excretion compared to ammonia
- D) Animals and plants both rely mainly on transpiration as their primary mechanism of excretion

- 83.** A city is located near a river and an industrial area. Over time, scientists observed the following:
- Fish in the river showed bioaccumulation of a persistent chemical that caused neurological disorders in humans who consumed them.
 - The air contained high levels of a gas that reacts with water to form acid rain, damaging monuments and crops.
 - Soil had elevated heavy metal concentrations, leading to reduced fertility and toxicity in plants.
- On the basis of the given observations, pair each cause (i, ii, iii) with the corresponding pollutant (a, b, c) and answer the correct statement:
- a. Mercury b. Sulfur dioxide c. Lead
- | | |
|---------------------|---------------------|
| A) i→a, ii→b, iii→c | B) i→a, ii→c, iii→b |
| C) i→b, ii→c, iii→a | D) i→c, ii→b, iii→a |
- 84.** Consider the following jumbled food chain:
Grasshopper, Grass, Hawk, Frog, Snake
If the energy content of the frog is x kJ, the energy available to the primary consumer is
- | | |
|------------|-------------|
| A) 10x kJ | B) x kJ |
| C) x/10 kJ | D) x/100 kJ |
- 85.** Which statement is TRUE regarding the relationship between ozone depletion and climate change?
- CFCs destroy ozone and contribute to global warming
 - Ozone depletion directly causes the greenhouse effect
 - Greenhouse gases directly destroy ozone molecules
 - Reducing CO₂ emissions alone can fully restore the ozone layer
- 86.** Which of the following was NOT a character studied by Mendel in his experiments with *Pisum sativum*?
- | | |
|-------------------------|--------------------------|
| A) Stem Height | B) Flower shape |
| C) Pod shape and colour | D) Seed shape and colour |
- 87.** Ali was breeding two *Pisum sativum* plants for plant height and seed shape. He noticed the following in the offspring:
All plants were Tall
Seed shape ratio: 3 (Round) : 1 (Wrinkled)
How many possible combinations (unordered) of parental genotypes could produce this result?
- | | |
|------|------|
| A) 1 | B) 2 |
| C) 3 | D) 4 |

88. Raghav is trying to understand when plant cells are haploid (N) or diploid (2N) during sexual reproduction. Which of the following statements is correct?

- A) The microspore and megaspore are diploid (2N) cells that undergo meiosis, and the fertilized zygote remains haploid (N)
- B) The microspore and megaspore are haploid (N) cells formed after meiosis, and fertilization restores the diploid (2N) number in the zygote
- C) The pollen and ovule mother cells are haploid (N) before meiosis and form diploid gametes after meiosis
- D) The pollen and ovule mother cells are diploid (2N), and meiosis produces haploid gametes, but fertilization does not restore the diploid number

89. Raghav was confused about how plants reproduce asexually. His teacher explained methods like Budding and Fragmentation, but Raghav wasn't sure how to tell them apart. Which of the following best distinguishes the two processes?

- A) In budding, a small protrusion forms on the parent and may stay attached before detaching, while in fragmentation, the parent breaks into pieces, and each piece grows into a new organism
- B) In budding, offspring develop from specialized reproductive cells, whereas in fragmentation, the parent divides under environmental stress to form new organisms
- C) In budding, a small part of the parent detaches and grows into an independent organism, whereas in fragmentation, the parent splits into fragments that grow into independent organisms
- D) In budding, the offspring remain attached to the parent for a while, while in fragmentation, the parent breaks into two parts that grow into independent organisms

90. Which of the following correctly matches the organism with its classification group?

- I. Rose — Monocotyledon
- II. Frog — Amphibian
- III. Mango — Gymnosperm
- IV. Shark — Reptile

Choose the correct match:

- A) Only II
- B) Only I and II
- C) Only II and IV
- D) All of the above

91. Match the following books/texts with their respective authors

Books/Texts

- i. Voice of India
- ii. Economic History of India
- iii. Unhappy India
- iv. India Divided

Authors

- a. R.C. Dutt
- b. Dadabhai Naoroji
- c. Rajendra Prasad
- d. Lala Lajpat Rai

Choose the correct match:

- A) i-a, ii-b, iii-d, iv-c
- B) i-b, ii-a, iii-d, iv-c
- C) i-a, ii-b, iii-c, iv-d
- D) i-b, ii-a, iii-c, iv-d

92. Which of the following pairs are correctly matched?
Geographical Discoveries vs Discoverers
I. Cape of Good Hope — Vasco De Gama
II. Solar System — Kepler
III. Australia — James Cook
- A) I only
B) III only
C) I and III only
D) All of the above
93. Consider the following information regarding the International Monetary Fund (IMF) and identify the INCORRECT statements.
I. Every member country has an equal voting power regardless of its financial contribution.
II. The IMF created Special Drawing Rights (SDR) as an international reserve asset in 1969.
III. Private entities and individuals can also hold Special Drawing Rights (SDR).
- A) I only
B) II only
C) I and III only
D) II and III only
94. Which of the following Space Missions are successfully conducted by ISRO to develop and demonstrate the technology needed for the docking and undocking of two small spacecraft in a low-Earth circular orbit?
- A) Aditya L-1
B) Gaganyaan
C) NISAR
D) SPADEX
95. Which of the following personalities of Jammu and Kashmir was recently awarded Padma Shri (2026) for his/her social work?
- A) Omar Abdullah
B) Ghulam Nabi Azad
C) Rehman Rahi
D) Brij Lal Bhat
96. Following the 2019 Reorganization, while the legislative Assembly of Jammu and Kashmir can legislate on state matters, which of the following subjects are exclusively reserved for the Union government, unlike other states?
- A) Public order and Police
B) Education and Health
C) Local self-government
D) Agriculture and Industries
97. Which of the following rivers are tributaries of the river Chenab?
I. Ujh river
II. Marusudar river
III. Niru river
IV. Ans river
V. Tawi river
- Choose the correct option:**
- A) I, II, IV and V only
B) II, IV and V only
C) II, III, IV and V only
D) All of the above

98. Match the following:

Kashmir Sultans

i. Shams-ud-din Shah Mir

ii. Sikandar Butshikan

iii. Yusuf Shah Chak

Major Contribution/Title

a. Establishment of the Sultanate in Kashmir in 1339 CE

b. Construction of the magnificent Jama Masjid in Srinagar in 1394 AD

c. The last Independent ruler of Kashmir

Choose the correct match:

A) i-a, ii-c, iii-b

B) i-b, ii-c, iii-a

C) i-a, ii-b, iii-c

D) i-b, ii-a, iii-c

99. According to the Indian State of Forest Report, 2023, what is the 'Total Forest Cover' of the Union Territory of Jammu and Kashmir as a percentage of its total geographic area?

A) 38.15%

B) 37.15%

C) 39.15%

D) 36.15%

100. Identify the correct statements about the Udhampur-Srinagar-Baramulla Rail Link (USBRL) project

I. Indian Railway's first cable-stayed bridge has been constructed over the Anji Khad in this project.

II. The iconic 1315 m long Chenab bridge is the World's highest railway arch bridge, standing 359 m above the river bed.

A) I only

B) II only

C) Both I and II

D) Neither I nor II

101. Complete the following number series:

3, 3, 13, 81, 603, ____

A) 5291

B) 6691

C) 5491

D) 4891

102. Fill in the blanks with appropriate letters to complete the following letter series:

a _ d _ k d a _ d f k _ a k d f k d

A) c, f, c, f, c

B) c, f, c, d, c

C) c, f, d, f, c

D) c, f, c, d, f

103. In a certain language, BRAIN is coded as TPKDC, then in that language, MINDS will be coded as

A) UPOKF

B) NPOKF

C) TPOKF

D) ZPOKF

104. At 5 p.m., Mr. Floyd is standing facing a tower. His shadow falls exactly to his right. After 30 minutes, he turns 180° and starts walking straight. In which direction is he walking?

A) East

B) North

C) South

D) West

111. Following the suppression of the revolt of 1857, what major constitutional change was adopted via the Government of India Act, 1858?
- A) Indians were allotted an equal representation in the Indian Legislative Assembly, similar to the Britishers
 B) The post of Governor of Bengal was transformed to Governor General of India
 C) The power of the East India Company was abolished, and power was transferred to the British Crown
 D) The Indian Executive Council was composed mainly of Indian leaders
112. Which of the following administrative measures taken by Lord Lytton was a factor in the rise of Indian Nationalism?
- A) Ilbert Bill Controversy (1883)
 B) Partition of Bengal (1905)
 C) Formation of the Indian National Congress (1885)
 D) Passing of the Vernacular Press Act (1878)
113. The 'Safety Valve theory' propounded by leaders like Lala Lajpat Rai in the context of the formation of the Indian National Congress suggests that-
- A) The British used Congress to directly recruit the Indians for World War-II
 B) The Congress was formed to protect small Indian Industries from British competition
 C) Congress was established as a platform to secure the religious interests and prevent communal disputes
 D) The congress was formed to provide a peaceful outlet for public discontent and prevent another revolt like 1857
114. What was/were the primary political demands of the Moderates during the early phase of the Indian National Congress?
- A) To attain Purna Swaraj
 B) To allow separate electorates for all marginalized groups
 C) Expansion of Legislation Councils and greater representation of Indians in the Civil Services
 D) Total boycott of British institutions like the Judiciary
115. Match the following in the context of the Swadeshi Movement-
- | Swadeshi Initiatives | Associated Leaders |
|------------------------------|-----------------------------|
| i. Bengal Chemicals Factory | a. V.O. Chidambaram Pillai |
| ii. Steam Navigation Company | b. Prafulla Chandra Ray |
| iii. Dawn Society | c. Ashwini Kumar Datta |
| iv. Swadesh Bandhab Samiti | d. Satish Chandra Mukherjee |
- Choose the correct option:**
- A) i-a, ii-c, iii-b, iv-d
 B) i-b, ii-a, iii-d, iv-c
 C) i-b, ii-a, iii-c, iv-d
 D) i-a, ii-b, iii-c, iv-d

