

Haryana Civil Services

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Prelims 24 July 2022

(GS) Paper-I (English)

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ENGLISH VERSION

- 1 Which of the following is correct?
- Evaporation is a surface phenomenon, which means particles from the surface change into the vapour state.
 - Boiling is a bulk phenomenon, which means particles from the bulk (whole) of the liquid change into vapour state.
 - Deposition is the change of gaseous state directly to solid without converting into the liquid state.
 - The state of matter can be changed by changing its temperature only.
- (A) 1, 3 and 4 (B) 1, 2 and 3 (C) 1, 2 and 4 (D) 2, 3 and 4
- 2 Match List-I with List-II :
- | List - I | List - II |
|--|---------------------|
| 1. Camphor from solid sodium chloride | I. Chromatography |
| 2. Different pigments from an extract of flower petals | II. Distillation |
| 3. Acetone and water mixture | III. Centrifugation |
| 4. Butter from cream | IV. Sublimation |
- (A) 1-II, 2-I, 3-IV, 4-III (B) 1-II, 2-III, 3-IV, 4-I
(C) 1-IV, 2-I, 3-II, 4-III (D) 1-IV, 2-III, 3-I, 4-II
- 3 Consider the legal issues involved in followings advisory opinion rendered by the Supreme Court of India under Article 143(1) of the Constitution.
Match List - I with List - II :
- | List - I | List - II |
|------------------------------------|-------------------------------|
| A. Delhi Laws Act, 1951 | I. Legislative Privileges |
| B. Keshav Singh 1965 | II. Gujarat Gas |
| C. Special Reference No. 1 of 2001 | III. Delegated Legislation |
| D. Special Reference No. 1 of 2002 | IV. Gujarat Assembly Election |
- Choose the correct answer from the options given below :
- (A) A-III, B-I, C-IV, D-II (B) A-III, B-I, C-II, D-IV
(C) A-I, B-III, C-IV, D-II (D) A-II, B-I, C-III, D-IV
- 4 Which of the following Union Territories are included in electoral college for election to office of President of India by the Constitution (70th Amendment) Act, 1992 for purposes of Articles 54 and 55 of the Constitution of India ?
- (A) NCT of Delhi (B) Goa
(C) Puducherry (D) Lakshadweep
- Choose the correct answer from the options given below :
- (A) A and B only (B) B and C only (C) A and C only (D) C and D only
- 5 Which of the following statements is/are correct for the Public Accounts Committee ?
- It comprises of not more than 10 members from the Lok Sabha and not more than 7 members from the Rajya Sabha.
 - As per convention a member of the opposition acts as its Chairman.
 - It examines the statement of accounts showing the income & expenditure of the state corporations, autonomous and semi-autonomous bodies.
 - The term of the Committee does not exceed one year at a time.
- Choose the correct answer from the options given below :
- (A) A, B and C only (B) A, C and D only (C) A, B and D only (D) B, C and D only
- 6 Consider the following statement regarding the appointment of *ad hoc* Judge of the Supreme Court. Which of the following is/are correct?
- Ad hoc* Judge is to be appointed if the quorum of the Supreme Court judges is insufficient to hold or continue any session of the Court.
 - Chief Justice of India is required to consult the Chief Justice of the concerned High Court before appointing a Judge of the said High Court as *Ad hoc* Judge of the Supreme Court.
 - For appointment of *ad hoc* Judge, prior consent of the President is not mandatory.
 - Ad hoc* Judge of the Supreme Court while attending the sittings of the Supreme Court enjoys all powers and privileges of a Supreme Court Judge.
- (A) A, B and C only (B) A and B only (C) C and D only (D) A, B and D only

ENGLISH VERSION

8. A vitamin that functions both as a hormone and a visual pigment?
(A) Riboflavin (B) Folic acid (C) Thiamine (D) Retinal / Retinol
9. The total percentage of carbon present in our human body is
(A) 18 to 19 percent (B) 20 to 25 percent (C) 15 to 16 percent (D) None of the above
10. During expiration the air will leave the lungs when the pressure inside the lungs must become
(A) equal to the atmospheric pressure (B) lower than atmospheric pressure (C) higher than atmospheric pressure (D) diaphragm must contract
11. Select the correct option from the codes given below about greenhouse gases from the following:
i. Methane ii. Nitrogen iii. Nitrous oxide iv. Water vapours
Code :
(A) i, iii and iv only (B) i and ii only (C) i and iii only (D) i, ii and iii only
12. The Padma Awards are given in various disciplines/field of activity. Match the name of the Padma Awardees of the year 2022 with their field of activities :-
- | Name | Field |
|------------------------------------|-----------------------------|
| a) Prabha Atre | 1) Trade and Industry |
| b) Radheyshyam Khemka (Posthumous) | 2) Sports |
| c) Natarajan Chandrasekaran | 3) Science and Engineering |
| d) Devendra Jhajharia | 4) Literature and Education |
| e) Sanjaya Rajaram (Posthumous) | 5) Art |
- Choose the correct option from below :-
(A) a-5, b-4, c-1, d-2, e-3 (B) a-5, b-1, c-2, d-3, e-4
(C) a-1, b-2, c-3, d-4, e-5 (D) a-2, b-3, c-4, d-5, e-1
13. Match List I with List II :-
- | List I | List II |
|--|--|
| a) Dr. Dhondo Keshav Karve | 1) Gandhi of Malkangiri |
| b) Laxman Nayak | 2) Old Gandhi |
| c) Matangini Hazra | 3) Hindi Litterateur and Revolutionary |
| d) Satchidananda Hiranand Vatsyayan 'Agyeya' | 4) Pioneer of Women's Empowerment |
- Choose the correct option from below:-
(A) a-1, b-2, c-3, d-4 (B) a-4, b-1, c-2, d-3 (C) a-2, b-3, c-4, d-1 (D) a-3, b-4, c-1, d-2
14. Which of the following is / are true regarding Tatya Tope, a significant face of the Freedom Struggle of 1857?
1. His real name was Ramachandra Pandurang Rao.
2. In Bithur, he came in contact with Nana Saheb and Moropant Tambe.
3. He belonged to Yeola in Maharashtra.
4. He led a rebellion in Madhya Pradesh and Rajasthan.
Choose the correct option from below:-
(A) 1, 2 and 3 only (B) 2, 3 and 4 only (C) 1, 3 and 4 only (D) 1, 2, 3 and 4
15. With a view to position India as a global leader in technical textiles, National Technical Textiles Mission has been approved for creation with a four year implementation period from FY 2020-2021 to FY 2023-2024 by the Ministry of Textiles, Government of India.
Consider the following statements:-
1. Technical Textiles products are divided into 14 broad categories depending upon their application areas.
2. Penetration level of technical textiles in India is at 5-10%, against 30-70% in advanced countries.
3. Promotion of innovation amongst young engineering/technology/ science standards and graduates will be taken up by the Mission.
4. The National Technical Textiles Mission will be implemented through a 3-tier institutional mechanism.
Choose the correct statements from the above :-
(A) 1, 2 and 3 only (B) 2, 3 and 4 only (C) 1, 3 and 4 only (D) 1, 2 and 4 only

ENGLISH VERSION

- 15 Read the statements and select the correct answer from the given options:
- Statement - I** : Manganese is an important raw material for smelting of iron ore and also used for manufacturing ferro alloys.
- Statement - II** : Manganese deposits are found in almost all geological formations, however, it is mainly associated with Dharwar system.
- (A) Statement - I is True, Statement - II is False
 (B) Statement - I is False, Statement - II is True
 (C) Both Statements are True and Statement - II provides explanation to Statement - I
 (D) Both Statements are True and Statement - II does not provide explanation to Statement - I

- 16 Which of the following statements are correct about Eastern and Western Ghats?
1. Anaimudi is the highest peak in the Eastern Ghats.
 2. Western Ghats are comparatively lower in elevation and less continuous than Eastern Ghats.
 3. Most of the Peninsular rivers have their origin in the Western Ghats.
 4. The Eastern and the Western Ghats meet each other at the Nilgiri hills.
- Select the correct answer using the code below:
- (A) only 1 and 2 (B) only 3 and 4 (C) only 1, 2 and 3 (D) only 2, 3 and 4

- 17 Which of the following statement/statements are correct about a disaster which struck Uttarakhand's Chamoli district in February 2021?
1. A portion of the Gangotri glacier broke off and caused havoc.
 2. There was sudden flood in the middle of the day in the Dhaul Ganga, Rishi Ganga and Alaknanda rivers.
 3. Tapovan-Vishnugad Hydel Project and the Rishi Ganga Hydel Project were extensively damaged.
- Select the correct answer using the code below:
- (A) Only 1 (B) Only 1 and 2 (C) Only 2 and 3 (D) 1, 2 and 3

- 18 Read the given statements and select the correct answer from the options given:
- Statement - I** : Sikkim Himalayas are famous for Karewa formations, which are useful for the cultivation of Zafran.
- Statement - II** : Karewas are thick deposits of glacial clay and other materials embedded with moraines.
- (A) Statement - I is True, Statement - II is False
 (B) Statement - I is False, Statement - II is True
 (C) Both Statements are True and Statement - II provides explanation to Statement - I
 (D) Both Statements are True and Statement - II does not provide explanation to Statement - I

- 19 Which of the following characteristics are correct about waves?
1. Wind causes waves to travel in the ocean.
 2. The actual motion of water beneath the wave is not circular.
 3. Steep waves are not fairly young ones and are probably formed by local winds.
 4. The highest and lowest points of a wave are called the crest and trough respectively.
- Select the correct answer using the code below:
- (A) 1 and 2 (B) 2 and 3 (C) 3 and 4 (D) 1 and 4

- 20 Match the climatic regions of India according to Koeppen's scheme.

Column I

Types of Climate

1. BWhw
2. Dfc
3. Amw
4. As

- (A) 1-A, 2-B, 3-C, 4-D
 (C) 1-C, 2-A, 3-B, 4-D

Column II

Areas

- A. Arunachal Pradesh
- B. West Coast of India south of Goa
- C. Extreme Western Rajasthan
- D. Coromandel coast of Tamil Nadu

- (B) 1-C, 2-D, 3-A, 4-B
 (D) 1-A, 2-C, 3-B, 4-D

ENGLISH VERSION

21 Match List - I with List - II

List - I

- A. Mata ni pachedi
- B. Sanjhi
- C. Phad
- D. Saura Paintings

List - II

- I. Uttar Pradesh
- II. Gujarat
- III. Odisha
- IV. Rajasthan

Choose the correct answer from the options given below :

- (A) A-II, B-I, C-IV, D-III
- (B) A-III, B-II, C-I, D-IV
- (C) A-IV, B-III, C-I, D-II
- (D) A-I, B-IV, C-II, D-III

22 Match List - I: Name of the Variety Units with List - II: Textile

List - I

- A. Shabnam
- B. Mashru
- C. Dhabla
- D. Chintz

List - II

- I. Wool
- II. Cotton
- III. Muslin
- IV. Cotton and Silk mix

Choose the correct answer from the options given below :

- (A) A-III, B-IV, C-I, D-II
- (B) A-IV, B-III, C-II, D-I
- (C) A-IV, B-III, C-I, D-II
- (D) A-III, B-IV, C-II, D-I

23 Consider the following events in the history of India :

1. Rise of Pratiharas under King Mihir Bhoja (Bhoja I)
2. Establishment of Pallava power under Mahendravarman
3. Pala dynasty founded by Gopal
4. Establishment of Chola power by Prantaka - I

What is the correct chronological order of the above events, starting from the earliest times?

- (A) 2-1-4-3
- (B) 3-1-4-2
- (C) 2-3-1-4
- (D) 3-4-1-2

24 With reference to the Indian Freedom Struggle, consider the following events :-

1. Second Round Table Conference
2. Dandi March
3. Rowlatt Act
4. Death of Jatin Das

The correct chronological sequence is (from earliest to recent)

- (A) 4, 3, 1, 2
- (B) 3, 4, 2, 1
- (C) 1, 3, 2, 4
- (D) 1, 2, 3, 4

25 In the later vedic period, the term "Bali" denoted

- (A) Sacrifice
- (B) Tax
- (C) Powerful landlords
- (D) Revenue

26 "AshtaPada" in ancient India referred to

- (A) A marriage ritual
- (B) An Asura with eight legs
- (C) Game of chess
- (D) Cavalry unit comprising of eight horses

27 Consider the following statements about Yeast :

1. Yeast are fungi.
2. Yeast can form pseudomycelium.
3. Yeast reproduce asexually by budding.
4. Yeasts are facultative anaerobes.
5. All Yeasts are dimorphic.
6. All Yeasts are pathogenic.

Which of the above are correct ?

- (A) 1, 2, 3, 4
- (B) 1, 2, 3, 6
- (C) 3, 4, 5, 6
- (D) 2, 3, 4, 5

ENGLISH VERSION

- 28 Consider the following regarding the National Dairy Research Institute (NDRI) :-
1. The National Dairy Research Institute started as Imperial Institute of Animal Husbandry and Dairying in 1923 in Bangalore.
 2. In 1936, it was renamed as Imperial Dairy Institute.
 3. NDRI shifted to its present site in Karnal in 1955.

Choose the correct statements from the above:-

- (A) 1 and 2 only (B) 2 and 3 only (C) 1 and 3 only (D) 1, 2 and 3

- 29 Consider the following regarding Wildlife Sanctuaries of Haryana :-

1. Bhindawas Wildlife Sanctuary – Jhajjar district
2. Nahar Wildlife Sanctuary – Rewari district
3. Chhilchhila Wildlife Sanctuary – Kurukshetra district
4. Bir Shikargah Wildlife Sanctuary – Mahendragarh district

Choose the correct statements from the above :-

- (A) 1, 2 and 3 only (B) 1, 2 and 4 only (C) 2, 3 and 4 only (D) 1, 3 and 4 only

- 30 Consider the following matches :-

- | | |
|------------------------------------|---|
| 1) FAME India Scheme | → To promote environment friendly vehicles |
| 2) PM Vikas Pahal Scheme | → To promote development in the villages of North East |
| 3) Nishtha | → National initiative for holistic progress of school heads and teachers. |
| 4) Pradhan Mantri Saubhagya Yojana | → Right to electricity to the poor and deprived. |

Which of the above are correct matches?

- (A) 1 and 2 only (B) 1, 2 and 3 only (C) 2, 3 and 4 only (D) 1, 2, 3 and 4

- 31 Which of the following statements are true about the India Post Payments Bank (IPPB)?

1. IPPB was set up in 2016.
2. IPPB got incorporated as a Public Limited Company with 100 percent GOI equity under Department of Posts.
3. Post Office Savings Bank products primarily focus on encouraging digital payments and remittance whereas IPPB primarily aim at savings.
4. Services launched by IPPB include Life and General Insurance, Digital Life Certificate, Domestic Money Transfer.

- (A) 1, 2 and 3 only (B) 2, 3 and 4 only (C) 1, 2 and 4 only (D) 1, 3 and 4 only

- 32 Which of the following statements are incorrect?

1. Central Board of Film Certification (CBFC) is a statutory body regulating the public exhibition of films.
2. The film 'Raja Harishchandra' produced by Dadasaheb Phalke was released after the passing of the Indian Cinematograph Act, 1920.
3. CBFC launched its online portal 'e-cinepramaan' in 2015 to modernize and digitize film certification process.
4. The Advisory Panels which assist the regional offices of CBFC in examination of film comprise of members who have been nominated by the Central Govt. for a period of two years.

- (A) 1 and 2 only (B) 2 and 3 only (C) 3 and 4 only (D) 1 and 4 only

- 33 Which of the following statements are true about Indira Gandhi National Centre for the Arts (IGNCA)?

1. IGNCA is an autonomous trust set up by the Government of India under the Ministry of Culture.
2. It has started post-graduate diploma courses to train manpower in the specialized field of heritage conservation and management.
3. As a part of its mandate, it has to prepare the National Register on Built Heritage and Sites and the National Register on Antiquities.
4. It is the nodal agency for the National Mission for Manuscripts.

- (A) 1, 2 and 3 only (B) 2, 3 and 4 only (C) 1, 3 and 4 only (D) 1, 2 and 4 only

ENGLISH VERSION

- 34 Photosynthesis is a process that helps green plants synthesize their food. A cascade of events and chemical reactions take place in a specified sequential order. Choose an event that does not take place in photosynthesis
(A) Absorption of light energy by chlorophyll (B) Reduction of carbon dioxide to carbohydrate
(C) Oxidation of carbon to carbon dioxide (D) Splitting of water
- 35 A couple suspects a mix up of their new born baby in the hospital. Blood typing is sought to resolve the dispute. The man has blood group A and the woman has blood group B. Their biological child can have blood group
i. Either A or B
ii. A or B or O or AB
iii. A or B or AB
iv. only AB
Choose the correct option :
(A) i only (B) ii only (C) iii only (D) iv only
- 36 Consider the following statements:-
i. Nitrification is a process in which nitrates are converted to nitrogen.
ii. Denitrification is a process in which nitrogen is converted into nitrates.
iii. Nucleic acids (DNA and RNA) contain nitrogen.
iv. During atmospheric lightening, nitrogen in the air gets converted into oxides of nitrogen.
v. Nitrogen fixing bacteria are present in root legumes.
Choose the correct statement(s) :
(A) - i, ii, iii and v (B) ii, iii and v (C) iii, iv and v (D) i, ii and iv
- 37 Consider the following statements about Lichens :
i. Lichens are algae.
ii. Lichens are autotrophs.
iii. Lichens are fungi.
iv. Lichens are symbiotic lifeforms.
v. Lichens are saprotrophs.
Choose the correct statements :
(A) i and v (B) ii and iv (C) i, iii and v (D) ii, iv and v
- 38 Following are some processes involving changes of state :
A. Evaporation of water
B. Burning of candle
C. Dissolution of sugar in water
D. Electrolysis of water to form hydrogen and oxygen
Select the correct option -
(A) B, C and D involve chemical change only (B) A, B and C involve physical change only
(C) Only A is a physical change (D) B involves both physical and chemical change
- 39 Which of the following statements are not correct ?
A. Plaster of Paris is obtained on heating gypsum.
B. Sodium carbonate is an important constituent of baking powder.
C. Bleaching powder can also act as an oxidising agent.
D. Ten water molecules are present in one formulae unit of chemical species of a sample with common name blue vitriol.
E. Sodium hydroxide is produced by passing electricity through the aqueous solution of sodium chloride.
(A) A, B and D (B) A, C and E (C) B and D (D) Only E
- 40 Select the correct statements regarding cleansing action of soap.
A. Hydrophilic end of soap molecules interact with the oily droplets.
B. The formation of micelles in a soap solution during the cleaning of clothes is called emulsification.
C. The hydrophobic end of the soap molecules is in the inner side during micelle formation.
D. Micelles surround the Ca^{2+} or Mg^{2+} ions in hard water instead of oily droplets.
(A) A, B and C (B) A and D (C) B and C (D) B, C and D

ENGLISH VERSION

- 41 Which of the following statement/statements are correct about Laterite soils?
1. These soils develop in the areas with high temperature and low rainfall.
 2. These soils are rich in organic matter, nitrogen, phosphate and calcium.
 3. These soils are widely cut as bricks for use in house construction.
 4. These soils have mainly developed in the higher areas of the peninsular plateau.
- Select the correct answer using the code below:
- (A) 1 and 2 (B) 3 and 4 (C) 1, 2 and 3 (D) 2, 3 and 4

- 42 Match List I with List II

- List I**
- Basel Convention, 1989/1992
 - Rotterdam Convention, 1998/2004
 - Minamata Convention, 2013/2017
 - Stockholm Convention, 2001/2004

- List II**
- Persistent Organic Pollutant
 - Control of Transboundary Movements of Hazardous Waste and their disposal
 - Facilitate informed decision making by countries with regard to trade in Hazardous Chemicals
 - Mercury

Choose the correct answer from the options given below:

- (A) A-III, B-II, C-IV, D-I (B) A-II, B-III, C-IV, D-I
(C) A-III, B-II, C-I, D-IV (D) A-II, B-I, C-IV, D-III

- 43 According to Census of India, 2011, the languages of India are classified into 5 distinct families, namely, the Indo-European, the Dravidian, the Austro-Asiatic, the Tibeto-Burman and the Semito-Hamitic. Large number of speakers of these languages are found in certain states. Hence match List I with List II :

LIST I (Language family)

- The Indo-European
- The Dravidian
- The Austro-Asiatic
- The Tibeto-Burman

LIST II (States / UTs)

- Andhra Pradesh, Tamil Nadu, Karnataka
- Assam, Manipur, Nagaland
- Uttar Pradesh, Maharashtra, Bihar
- Jharkhand, Odisha, Meghalaya

- (A) A-III, B-I, C-IV, D-II (B) A-II, B-IV, C-I, D-III
(C) A-I, B-II, C-III, D-IV (D) A-IV, B-III, C-II, D-I

- 44 Match the crop with the State that is its leading producer.

Crops

- Jowar
- Bajra
- Rice
- Gram

Leading producer

- Madhya Pradesh
- Maharashtra
- Rajasthan
- West Bengal

Choose the correct answer from the options given below:

- (A) A-4, B-2, C-1, D-3 (B) A-2, B-3, C-4, D-1
(C) A-3, B-4, C-2, D-1 (D) A-1, B-2, C-3, D-4

- 45 The correct order of Indian states in terms of population size (2011 Census) is (from highest to lowest population)

- (A) Uttar Pradesh, Bihar, Maharashtra, West Bengal
(B) Uttar Pradesh, West Bengal, Maharashtra, Bihar
(C) Uttar Pradesh, Maharashtra, West Bengal, Bihar
(D) Uttar Pradesh, Maharashtra, Bihar, West Bengal

- 46 Match the National Park with the State in which it is located.

National Park

- Balphakram
- Mahavir Harina Vanasthali
- Namdapha
- Nameri

State

- Telangana
- Assam
- Meghalaya
- Arunachal Pradesh

Choose the correct answer from the options given below:

- (A) A-4, B-2, C-1, D-3 (B) A-3, B-1, C-4, D-2
(C) A-3, B-4, C-2, D-1 (D) A-1, B-2, C-3, D-4

ENGLISH VERSION

- 47 Given below are two statements:
Statement - I : Chandrayaan-2 was launched on July 22, 2019, from Sriharikota by a Geosynchronous Satellite Launch Vehicle Mark III. The spacecraft consisted of an orbiter, a lander, and a rover.
Statement - II : The orbiter will circle the Moon in a polar orbit at a height of 100 km (62 miles).
 In the light of the above statements, choose the most appropriate answer from the options given below
 (A) Both Statement - I and Statement - II are correct
 (B) Both Statement - I and Statement - II are incorrect
 (C) Statement - I is correct but Statement - II is incorrect
 (D) Statement - I is incorrect but Statement - II is correct

- 48 Which of the following is not a preservative?
 (A) Dulcin
 (B) Potassium metabisulphite
 (C) Sodium benzoate
 (D) Sorbic acid salts

- 49 Given below are two statements: one is labeled as Assertion (A) and the other is labeled as Reason (R)
Assertion (A) : Biogas contains large amounts of methane which can be used as a fuel for several purposes. As it releases no smoke or residue, it should be considered as a good and safe source of energy.
Reason (R) : Biogas also contains carbon dioxide and the higher content of carbon dioxide contributes to lower energy of biogas in comparison to natural gas.
 In the light of the above statements, choose the most appropriate answer from the options given below:
 (A) Both (A) and (R) are correct and (R) is the correct explanation of (A)
 (B) Both (A) and (R) are correct but (R) is not the correct explanation of (A)
 (C) (A) is correct but (R) is not correct
 (D) (A) is not correct but (R) is correct

- 50 Before the inception of the five-year plan in India, which of these plans were in existence?
 1. Bharat Plan 2. Sarvodaya Plan
 3. Farmer Plan 4. Bombay Plan
 Select the correct answer using the code given below :
 (A) 1, 2 and 3 only (B) 1 and 4 only (C) 2 and 4 only (D) 1, 2 and 4 only

- 51 Which of the following is (are) true in respect of the electric current used at your home?
 i. Microwave Oven and television uses dc current
 ii. Refrigerator and washing machine uses ac current
 iii. Air cooler and air conditioner uses ac current
 iv. Most of the devices use 220 ampere current
 v. Magnitude of current passing through different devices is same
 (A) Only i, ii and iv (B) Only ii and iii (C) Only iii and iv (D) Only ii, iii, iv and v

- 52 Consider the following statements :
Statement - I : The magnetic field lines emerge from the north pole and merge at the south pole of a bar magnet.
Statement - II : The direction of magnetic field is taken to be the direction in which the north pole of a compass needle moves.
Statement - III : There is no field inside a bar magnet.
Statement - IV : The relative strength of the magnetic field is shown by the degree of closeness of the field lines.

Which of the above statement(s) is/are correct?

- (A) Statements - I, II, III and IV
 (B) Statements - I, II, and III
 (C) Statements - I, II and IV
 (D) Statements - II, III and IV.

- 53 Consider the following statements :
Statement - I : An electric motor converts electrical energy into mechanical energy.
Statement - II : An electric generator converts mechanical energy into electrical energy.
Statement - III : Both electric motor and generator work on the same principle.
 Which of the above statement(s) is/are correct?
 (A) Statements - II and III
 (B) Statements - I and III
 (C) Statements - I and II
 (D) Statements - I, II and III

ENGLISH VERSION

- 54 India presented the following nectar elements of India's climate change at COP 26, in Glasgow:
1. Reach 1000 GW Non-fossil energy capacity by 2030.
 2. 50 per cent of its energy requirements from renewable energy by 2030.
 3. Reduction of total projected carbon emissions by one billion tonnes from now to 2030.
 4. Reduction of the carbon intensity of the economy by 45 per cent by 2030, over 2005 levels.
 5. Achieving the target of net zero emissions by 2090.
- Which of the following are correct statements ?
- (A) 1, 2 and 3 only (B) 2, 3 and 4 only (C) 3, 4 and 5 only (D) 1, 4 and 5 only
- 55 Top three commodities by percentage contribution in India's export growth of \$400bn are:-
1. Engineering goods
 2. Petroleum products
 3. Gems and Jewellery
 4. Rice
- (A) 1, 2 and 4 only (B) 1, 3 and 4 only (C) 1, 2 and 3 only (D) 2, 3 and 4 only
- 56 The National Apprenticeship Training Scheme is a programme equipping technically qualified youth with practical knowledge and skills required in their field of work. Which of the following statements are correct about the Scheme?
1. It is a 6 months programme.
 2. The Apprentices are imparted training by the organizations at their place of work.
 3. During the period of Apprenticeship, the Apprentices are not paid any stipend.
- (A) 1 and 2 only (B) 2 only (C) 3 only (D) 2 and 3 only
- 57 Which of the following statements are true ?
1. GDP_{MP} is the market value of all final Goods and Services produced within the geographical boundary of a country in a year.
 2. If the GDP of a country is rising, the welfare may not rise as a consequence.
 3. The ratio of nominal GDP to Real GDP is called GDP Deflator.
 4. The ratio of real GDP to nominal GDP is called GDP Deflator.
- (A) 1, 2 and 3 only (B) 2, 3 and 4 only (C) 1, 3 and 4 only (D) 1, 2 and 4 only
- 58 Which of the following is incorrect regarding the Deaflympics, 2022?
1. It was held in Caxias Do Sul, Brazil.
 2. It was held from 1st April to 15th April, 2022.
 3. Indian athletes won a total of 16 medals.
 4. Sumit Dahiya won a gold medal in wrestling.
- (A) 1 only (B) 2 only (C) 3 only (D) 3 and 4 only
- 59 Which of the Ek Bharat Shrestha Bharat Engagement Matrix between States and UTs is incorrect?
1. Gujarat : Chhattisgarh
 2. Maharashtra : Odisha
 3. Goa : Karnataka
 4. Chandigarh and Puducherry : Dadra and Nagar Haveli and Daman and Diu
- (A) 1 only (B) 2 only (C) 3 only (D) 4 only
- 60 Match the Ramsar Sites in List I with their locations in List II :-
- | List I | List II |
|---------------------------------|--------------------|
| A. Nawabganj Bird Sanctuary | (i) Tripura |
| B. Rudrasagar Lake | (ii) Haryana |
| C. Tso Kar Lake Complex | (iii) Kerala |
| D. Sasthamkotta Lake | (iv) Uttar Pradesh |
| E. Bhindawas Wildlife Sanctuary | (v) Ladakh |
- (A) A-(iv), B-(i), C-(v), D-(iii), E-(ii)
(B) A-(iii), B-(i), C-(v), D-(iv), E-(ii)
(C) A-(iii), B-(i), C-(v), D-(iv), E-(ii)
(D) A-(i), B-(v), C-(iii), D-(iv), E-(ii)

ENGLISH VERSION

- 61 Consider the following statements :
- Statement - I** : When an ultrasound travels from one medium to the other medium, its wavelength, frequency and speed change.
- Statement - II** : The frequency of an ultrasound wave remains almost unchanged while travelling from one medium to the other medium.
- Statement - III** : The frequency and speed of an ultrasound wave change when travelling from one medium to the other medium.
- Statement - IV** : 'Echocardiography' - a technique used in medical diagnostics, employs ultrasound.
- Which of the following combination of above statements are true?
- (A) Statements - I and II ✗ (B) Statements - I and III
(C) Statements - II and IV ✓ (D) Statements - III and IV
- 62 A person is not able to see distant objects clearly.
- Statement - I** : The person is suffering from Hypermetropia.
- Statement - II** : The defect may have been caused due to excessive curvature of the eye lens or elongation of the eye ball.
- Statement - III** : The defect can be corrected by using a concave lens of suitable power.
- Statement - IV** : The defect can be corrected by using a convex lens of suitable power.
- Which of the following combinations of above statements is correct?
- (A) Statements - I and III ✗ (B) Statements - II and IV
(C) Statements - I and IV ✓ (D) Statement - II and III
- 63 Which of the following provisions require(s) ratification from not less than one-half of the states for an amendment to the Constitution?
- A. Any of the lists in the Seventh Schedule B. Article 54, Article 55 and Article 73
C. Chapter VII D. Chapter I of part IX
- Choose the right code :
- (A) A and B ✓ (B) B and C (C) C and D (D) D and A
- 64 Which of the following Article bars the courts from interfering in disputes arising out of certain treaties and agreements made by the Princely States before the commencement of the Constitution?
- (A) Article 358 (B) Article 363 ✓ (C) Article 366 (D) Article 368
- 65 In which Part and Chapter of the Constitution was the Right to Property inserted after being removed from Part III?
- (A) Part XI, Chapter III (B) Part XII, Chapter IV ✓
(C) Part XIV, Chapter I (D) Part XI, Chapter I
- 66 I R Coelho judgment (2007) of the Supreme Court deals with :
- (A) Autonomous institutions (B) Basic Structure of the Constitution ✓
(C) Scheduled Areas (D) None of the above
- 67 Match the cell organelle listed in Column - 'A' with their function in Column - 'B' and select the correct option.
- | Column - A | Column - B |
|----------------------------------|--------------------------|
| i. Golgi body | A. Digestion |
| ii. Smooth endoplasmic reticulum | B. Formation of lysosome |
| iii. Ribosome | C. Protein Synthesis |
| iv. Lysosome | D. Lipid Synthesis |
- Code :
- (A) i-A, ii-B, iii-C, iv-D, ✗ (B) i-B, ii-D, iii-A, iv-C
(C) i-B, ii-D, iii-C, iv-A ✓ (D) i-D, ii-C, iii-A, iv-B
- 68 Which of the following group of diseases comprises genetic diseases?
- (A) Sickle cell anemia, AIDS, Down syndrome ✓
(B) AIDS, Hepatitis B, Cancer ✗
(C) Hemophilia, Hepatitis B, Colour blindness ✗
(D) Sickle cell anemia, Hemophilia, Down syndrome ✗

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69 Match List - I and List - II

List - I

- A. Arikamedu
- B. Tolkappiyam
- C. Vallals
- D. Ma and Veli

List - II

- 1. Patrons
- 2. Measure of land
- 3. 'Roman Factory'
- 4. Tamil grammar

Select the correct answer using the code given below :

- (A) A-3, B-4, C-1, D-2
- (B) A-3, B-1, C-2, D-4
- (C) A-1, B-3, C-2, D-4
- (D) A-2, B-1, C-4, D-3

70 Consider the following varieties of Mangoes found in India:

- i. Chausa - West Bengal
- ii. Totapuri - Madhya Pradesh
- iii. Kesar - Gujarat
- iv. Alphonso - Maharashtra

Which of the above is correctly matched?

- (A) i and ii only
- (B) ii and iii only
- (C) i and iv only
- (D) iii and iv only

71 Given below are two statements:

Statement - I : Rajendra-I Chola introduced Maligai-Kol, a standardized measuring unit.

Statement - II : Rajendra-I Chola's son Arumoliyarman built the famous Brihadeshwara Temple.

In the light of the above statements, choose the most appropriate answer from the options given below

- (A) Both Statement - I and Statement - II are correct
- (B) Both Statement - I and Statement - II are incorrect
- (C) Statement - I is correct but Statement - II is incorrect
- (D) Statement - I is incorrect but Statement - II is correct

72 Choose the correct hierarchy from the highest to the lowest level in Mughal India

- A. Faujdar - Subadar - Amin - Muqaddam
- B. Subadar - Amin - Muqaddam - Faujdar
- C. Amin - Muqaddam - Subadar - Faujdar
- D. Subadar - Faujdar - Amin - Muqaddam

Choose the correct answer from the options given below:

- (A) A Only
- (B) B Only
- (C) C Only
- (D) D Only

73 Match List - I with List - II

List - I

- A. Tipu Shah
- B. Dudu Mian
- C. Chait Singh
- D. Titu Mir

List - II

- I. Benaras Rebellion
- II. Faraizi Movement
- III. Tariqah-i-Muhammadiya
- IV. Pagal Panthi

Choose the correct answer from the options given below:

- (A) A-I, B-II, C-III, D-IV
- (B) A-III, B-I, C-IV, D-II
- (C) A-IV, B-II, C-I, D-III
- (D) A-II, B-III, C-I, D-IV

74 a. Manjusha Art is an art form of Angadesh, present day Bhagalpur.
b. The main colours used in this art form are Pink, Green and Yellow only

Which of the above statement/ statements are correct

- (A) Only a
- (B) Only b
- (C) Both a and b
- (D) Neither a nor b

75 Match List - I with List - II

List - I

- A. Kilakot
- B. Kohbar
- C. Thia-badia
- D. Morakuti

List - II

- I. Madhubani
- II. Patachitra
- III. Sanjhi
- IV. Picchvai

Choose the correct answer from the options given below:

- (A) A-II, B-I, C-IV, D-III
- (B) A-III, B-I, C-II, D-IV
- (C) A-IV, B-I, C-II, D-III
- (D) A-II, B-III, C-I, D-IV

ENGLISH VERSION

- 76 Leaders who served more than once as the President of Indian National Congress
- A. Surendranath Banerjee
C. Dadabhai Naoroji
E. Sir William Wedderburn
- B. W.C Banerjee
D. Rahimtullah M. Sayani

Choose the correct answer from the options given below:

- (A) A, B and D only
(B) A, B, C and E only
(C) A, B, C, D only
(D) All of the above

- 77 a. Maharaja Ranjit Singh came from Karorasinghia Mai Misly
b. Jean-Francois Allard and Jean Baptiste Ventura were the two Napoleonic generals in service of Maharaja Ranjit Singh.

Which of the above statement/ statements are correct ?

- (A) Only a
(B) Only b
(C) Both a and b
(D) Neither a nor b

- 78 Which among the following were women Adayar saints of South Indian Bhakti Movement?

- A. Karaikal Ammaiyar
C. Isaiganaaniyar
E. Mangayarkkarasiyar
- B. Godadevi
D. Akka Mahadevi

Choose the correct answer from the options given below:

- (A) A, B, D only
(B) D, C, E only
(C) A, C, E only
(D) B, C, D only

- 79 Which statement(s) is/are correct about the Cotton Plantation in India in the 19th century?

- A. American Civil War of 1861 impacted Cotton production in India
B. Cotton production boomed in Deccan countryside
C. By 1862, 90% of cotton import to Britain came from India
D. Expansion in cotton production made ryots richer than the sahuikars
E. The Deccan Riot of 1875 was the reaction of sahuikars against the rich ryots.

Choose the correct answer from the options given below:

- (A) A, B, C Only
(B) A, C & D Only
(C) A, B, D Only
(D) D, E Only

- 80 Match List I: Inscription with List II: Kings

- List - I
A. Sanchi Copper Plate Inscription
B. Aihole Inscription
C. Allahabad Pillar Inscription
D. Barah Copper Plate Inscription

- List - II
I. Pulkeshin - II
II. Mihir Bhoja
III. Chandragupta - II
IV. Samudragupta

Choose the correct answer from the options given below:

- (A) A-III, B-I, C-IV, D-II
(B) A-IV, B-I, C-III, D-II
(C) A-II, B-IV, C-I, D-III
(D) A-I, B-III, C-II, D-IV

- 81 Match List - I: Land / Taxation Units with List - II: Personalities

- List - I
A. Dahsala System
B. Bigha-i-Daftari
C. Biswa
D. Guz/Gaz

- List - II
I. Alauddin Khilji
II. Raja Todar Mal
III. Shahjahan
IV. Sikandar Lodi

Choose the correct answer from the options given below:

- (A) A-III, B-IV, C-II, D-I
(B) A-II, B-III, C-IV, D-I
(C) A-II, B-III, C-I, D-IV
(D) A-I, B-III, C-II, D-IV

ENGLISH VERSION

- 82 Which of the following statement/statements is/are correct about Bharatmala Pariyojna?
1. It envisages replacement of level crossing on national highways by road over bridges/road under bridges.
 2. It aims to develop the road connectivity to border areas.
 3. It aims at development of coastal roads including road connectivity for non major ports.
 4. It aims at the improvement in the efficiency of national corridors.

Select the correct answer using the code below:

- (A) 1, 2 and 3 only (B) 2, 3 and 4 only (C) 1, 2 and 4 only (D) 1, 2, 3 and 4

- 83 Match the name of the Dams in Column - I with the river in Column - II.

Column - I

- | | |
|-------------------|-------------|
| 1. Sardar Sarovar | A. Mahanadi |
| 2. Mettur | B. Chambal |
| 3. Hirakud | C. Kaveri |
| 4. Gandhi Sagar | D. Narmada |

Column - II

- (A) 1-D, 2-B, 3-C, 4-A
(C) 1-B, 2-D, 3-A, 4-C

- (B) 1-C, 2-D, 3-A, 4-B
(D) 1-D, 2-C, 3-A, 4-B

- 84 Which of the following statement/statements is/are correct about Pradhan Mantri Krishi Sinchayee Yojana?
1. It was launched to achieve convergence of investment in irrigation at the field level.
 2. Expand cultivable area under assured irrigation
 3. Improve farm water use efficiency
 4. Introduce sustainable water conservation practices

Select the correct answer using the code below:

- (A) only 1, 2 and 3 (B) only 1, 2 and 4 (C) only 2, 3 and 4 (D) 1, 2, 3 and 4

- 85 Match the name of the state given in Column - I with the phrase given in Column - II.

Column - I

- | | |
|----------------|-------------------------------------|
| 1. Assam | A. Abode of Clouds |
| 2. Meghalaya | B. Land of Red River and Blue Hills |
| 3. Uttarakhand | C. God's Own Country |
| 4. Kerala | D. Land of the Gods |

Column - II

- (A) 1-B, 2-A, 3-D, 4-C (B) 1-C, 2-D, 3-A, 4-B
(C) 1-B, 2-D, 3-A, 4-C (D) 1-D, 2-C, 3-B, 4-A

- 86 Read the given statements and select the correct answer from the options given:

Statement - I : The pattern of movement of planetary winds is called general circulation of the atmosphere.

Statement - II : The general circulation of the atmosphere sets in motion the ocean water circulation which influences the earth's climate.

- (A) Statement - I is True, Statement - II is False
(B) Statement - I is False, Statement - II is True
(C) Both Statements are True and Statement - II provides explanation to Statement - I
(D) Both Statements are True and Statement - II does not provide explanation to Statement - I

- 87 Which of the following statement/statements is/are correct about the movement of the Indian plate?

1. The Indian plate includes Peninsular India and the Australian continental portions.
2. The subduction zone along the Himalayas forms the southern plate boundary in the form of continent-continent convergence
3. In the east, it extends through Rakinyoma Mountains of Myanmar towards the island arc along the Java Trench.
4. The Western margin follows Kirthar Mountain of Pakistan.

Select the correct answer using the code below:

- (A) Only 1, 2 and 3 (B) Only 2, 3 and 4 (C) Only 1, 3 and 4 (D) Only 1, 2 and 4

ENGLISH VERSION

88 Match List I with List II :-

List I

- A. Dhyan Chand Award for Lifetime Achievement
- B. Dronacharya Award
- C. Maulana Abul Kalam Azad Trophy
- D. Rashtriya Khel Protsahan Puraskar

List II

- (i) Given to the overall top performing university in the inter-university tournaments
- (ii) Recognizes contribution made to sports development by entities other than sportspersons and coaches.
- (iii) Honours eminent coaches who have successfully trained sportspersons and teams and enabled them to achieve outstanding results in international competitions
- (iv) Honours those sportspersons who have contributed to sports by their performance and continue to contribute to promotion of sports even after retirement from active sporting career.

- (A) A-(iv), B-(iii), C-(i), D-(ii)
- (C) A-(ii), B-(i), C-(iii), D-(iv)

- (B) A-(iii), B-(iv), C-(ii), D-(i)
- (D) A-(i), B-(ii), C-(iv), D-(iii)

89 Which of following statements are true?

- 1. Haryana was the first state in the country to achieve hundred percent rural electrification in 1970 itself.
- 2. Haryana is the sole holder of the country's rock salt resources.
- 3. "Mera Pani Meri Virasat" scheme of Haryana aims to shift farmer's focus from growing water consuming crop like paddy to other less water requiring crops.
- 4. Under "Mahara Gaon-Jagmag Gaon", more than 5000 villages in Haryana have been provided with 24 hour power supply.

- (A) 1, 2 and 3 only (B) 2, 3 and 4 only (C) 1, 3 and 4 only (D) 1, 2 and 4 only

90 Reserve Bank of India raised the repo rate by 40 basis points in May 2022. Now consider the following statements:

- 1. Repo rates are increased to control inflation.
- 2. With increase in repo rates, cost of borrowing money increases.
- 3. With reduction in repo rates, Industry gets loans at higher rates from the lender.
- 4. To decrease money supply in the economy, the RBI hikes up repo rates to encourage banks for borrowing funds.

Select the correct statements using the code given below :

- (A) 1 and 2 only (B) 2 and 3 only (C) 3 and 4 only (D) 1 and 4 only

91 Consider the following from Haryana's Budget 2022-23.

- 1. Revenue deficit has been brought within the limits prescribed by 15th Finance Commission under the FRBM Act
- 2. Fiscal deficit has been projected at 2.98 per cent of GSDP in BE of 2022-23.
- 3. Debt to GSDP ratio is below 25 per cent for Fiscal Year 2021-22 RE.
- 4. 47 existing budgetary demands for grants have been consolidated into 29 budgetary demands for grants.

Which of the above statements are correct ?

- (A) 1 and 2 only (B) 2 and 3 only (C) 3 and 4 only (D) 1 and 4 only

92 Ayushman Bharat Pradhan Mantri Jan Aarogya Yojna (AB-PMJAY) provides accessible and affordable health care to the common man in the country. Which of the following are correct about the scheme ?

- 1. AB-PMJAY provides a cover upto Rs. three lakhs per family per year, for secondary and tertiary care hospitalization across the public and private empaneled hospitals in the country.
- 2. It provides cashless and paper less access to services for the beneficiary at the point of service.
- 3. Pre existing conditions are covered from day one.
- 4. Benefits of the scheme are not portable across the country.

- (A) 1 and 2 only (B) 2 and 3 only (C) 3 and 4 only (D) 1 and 4 only

ENGLISH VERSION

- 93 Which of the following river(s) is/are correctly matched with its/their tributaries?
 A. Krishna: Tungabhadra, Ghataprabha, Malprabha ✓
 B. Ganga: Gomti, Kosi, Gandak ✓
 C. Yamuna: Ken, Betwa, Chambal ✓
 D. Cauvery: Kabini, Bhima, Hemavatt ✓
 Choose the correct answer from the options given below:
 (A) A, B, C only (B) A, B, D only (C) B, C, D only (D) A, C, D only
- 94 The correct order of the given rivers when arranged by length from longest to shortest is:
 (A) Mahanadi, Narmada, Godavari, Krishna (B) Godavari, Krishna, Mahanadi, Tapi ✓
 (C) Narmada, Mahanadi, Godavari, Krishna (D) Godavari, Narmada, Krishna, Mahanadi
- 95 In the context of the Quit India Movement (1942), which pair/s mentioned below is/are matched properly?
 a. Usha Mehta - Clandestine Radio broadcast
 b. K T Bhashyam - Running independent local government
 c. Chitu Pandey - Labour unrest
 d. Matangini Hazra - Attack on police station
 Options:
 (A) a and b (B) b and c (C) c and d (D) a and d ✓
- 96 Match the following details about Shah Jahan's construction activities:
 a. Moti Masjid i. Lahore
 b. Jahangir's Mausoleum ii. Taj Mahal
 c. Extensive use of calligraphy iii. Peacock Throne
 d. first commissioned after becoming emperor iv. Agra
 (A) a-iv, b-i, c-iii, d-ii (B) a-i, b-iv, c-iii, d-ii (C) a-iv, b-i, c-ii, d-iii ✓ (D) a-i, b-iv, c-ii, d-iii
- 97 Match the information given below with respective Sufi Saints:
 a. Bahauddin Zakariya i. Gulbarga
 b. Muinuddin Chishti ii. Delhi
 c. Bande Nawz Gesu Garaz iii. Ajmer
 d. Nasiruddin Chirag iv. Founder, Suhrawardiyya Order
 (A) a-iv, b-iii, c-i, d-ii (B) a-i, b-iii, c-ii, d-iv (C) a-ii, b-iii, c-i, d-iv (D) a-ii, b-iii, c-iv, d-i ✓
- 98 "— gives evidence of a planned settlement and mud-brick structure in early Harappan period I. The range of pottery types was similar to that of Kalibangan. Artefacts included uninscribed seals, pottery with graffiti, terracotta wheels, cars, rattles, and bull figurines, chert blades, weights, a bone point, and a muller. A lot of animal bones were found during the excavations, indicating the importance of animal husbandry. A stacked set of hopscotches was found in an open area behind the structural complex. This suggests the possibility that a game similar to pithu, which is popular among children in India and Pakistan, goes back to early Harappan times!" - this statement is a description of which Harappan site in India?
 (A) Banawali, Haryana (B) Dholavira, Gujarat
 (C) Alamgirpur, UP (D) Rakhigarhi, Haryana
- 99 Which of the following statements about King Harshavardhana are correct?
 a. He belonged to the Maukhari dynasty
 b. He was defeated by Pulakesin II
 c. Ban, Mayura and Matanga Divakara were the famous writers at his court
 d. Harsha himself wrote three plays - Ratnavali, Priyadarshika and Nagamanjari
 (A) a, b and c (B) a, b and d (C) b, c and d (D) a, c and d ✓
- 100 Arrange the following temple constructions in chronological order (from most ancient to the recent times):
 a. Rebuilding of Madurai Meenakshi temple by the Nayaks
 b. Vitthala Temple at Hampi ✓
 c. Group of temples at Pattadakal
 d. Brihadishvara Temple, Tanjavur
 (A) a, b, c, d (B) c, d, b, a ✓ (C) c, b, d, a (D) a, b, d, c