

**UPSC EPFO
AO/EO 2023
ANSWER KEY**

PART-A

Directions: In the following five items, each sentence has a blank space and four options have been give after the sentence. Select the most appropriate option for the blank space and indicate your response on the Answer Sheet accordingly.

1. I.....walking past this particular shop for the past three years.

- (a) was
- (b) have
- (c) have been
- (d) had been

ANSWER: C

2. All effects can be connected with immediate causes, but itwhether they provide the whole explanation.

- (a) is doubted
- (b) is a doubt
- (c) may be a doubt
- (d) may be doubted

ANSWER: D

3. A bird.....is better than two in the bush.

- (a) in hand
- (b) to hand
- (c) handy
- (d) in one's hands

ANSWER: A

4. Human history is ample proof that human ambition.....no limits.

- (a) knows
- (b) keeps
- (c) crosses
- (d) marks

ANSWER: A

5. Good history presents several perspectives on a period but these divergent views must.....into an integrated whole.

- (a) be made
- (b) be fused
- (c) fit
- (d) be balanced

ANSWER: B

Directions: Read the following passage carefully and answer the five questions that follow by selecting your answers based solely on the content of the passage and opinion of the author only.

The world's life-supporting resources are being depleted at a faster rate than ever before! We have to change our practices and those of the world as a whole towards a more sustainable future. To give us an idea about the dimensions of change, the General Assembly of the United Nations has announced its Agenda 2030'. The 17 Sustainable Development Goals describe the framework of our common global efforts. Within each goal, education holds a key position.

Of course education and learning do not function in isolation. In a traditional sense they help to understand the world one lives in and prepare all for a job market with both intrinsic and instrumental values. What are the many roles of education in sustainable development? Its purpose is transformative in nature, in the sense that it should widen one's worldview,

make one question 'unsustainability', and help one build competencies to address global challenges and be accommodated into a global system.

Beyond this, education for sustainable development means integrating the future' as a specific dimension of our learning activities and teaching. How to build a sustainable future must play a central role in educational processes. Globalization, which is sometimes merely seen as global capitalism, has an inevitability about it. Whether we like it or not, we live in a highly interconnected and interdependent world. It is now well recognized that 21st century challenges are global in nature and require cooperation beyond national boundaries. In a sustainable development sense we have to see ourselves as 'citizens' of the world and respond accordingly to the global challenges in the present century. In fact, global challenges have expanded the very notion of citizenship itself. There is an increasing recognition of the importance of global citizenship.

6. Which one of the following areas holds a common key position in United Nations 'Agenda 2030'?

- (a) Environment
- (b) Gender
- (c) Globalization
- (d) Education

ANSWER: D

7. What is the role of Education in sustainable development ?

- (a) Education will develop multiple competencies for sustainable development among people all over the world
- (b) Education will provide books to read on sustainable development
- (c) Education will increase the global capital
- (d) Education will reduce interdependence of the people

ANSWER: A

8. We live in a highly interconnected and interdependent world'. What does this phrase mean in the passage?

- (a) We are now more connected and dependent upon each other for our survival
- (b) The means of transport have become faster
- (c) We have become dependent on other countries
- (d) We are facing challenges from globalization

ANSWER: A

9. "The world's life-supporting resources are being depleted at a faster rate than ever before!" What does this phrase mean in the passage?

- (a) Today we are facing an acute shortage of food products
- (b) Medical health systems are deteriorating at a fast pace
- (c) The natural resources necessary to sustain life are reducing drastically
- (d) Human life is becoming more dependent on the support of technology

ANSWER: C

10. "There is an increasing recognition of the importance of global citizenship' because:

- (a) People want to travel more and live in different parts of the world
- (b) It will unite people from all over the world to face the challenges of the 21st century

- (c) People believe that there is a future in foreign countries
- (d) People will cooperate with each other to save themselves from natural disasters

ANSWER: B

Directions: In the following five items, each item consists of six sentences of a passage. The first and sixth sentences are given at the beginning as S1 and S6. The four sentences in between S1 and S6 in each question have been jumbled up and labelled as P, Q, R, and S. You are required to find the proper sequence of the four sentences and mark your response accordingly on the Answer Sheet.

11. S1: Geological mapping, when properly done, demands skill and judgment.

S6: Nothing is more naive than to believe that a field geologist should gather only 'facts', the interpretation of which is to be made at a later date.

P: While the field work progresses he should conceive as many interpretations as are consistent with the known facts.

Q: As the field work progresses and the larger geological picture begins to unfold, experience and judgment are essential if the geologist is to evaluate properly the vast number of facts gathered from thousands of outcrops.

R: Such mapping requires keen observation and a knowledge of what data are significant.

S: Above all, the field geologist must use the method of "working multiple hypotheses" to deduce the geological structure.

- (a) SRQP
- (b) RQSP
- (c) PSQR
- (d) SRPQ

ANSWER: B

12. S1: Under the colonial regime, basic infrastructure such as railways, ports, water transport, posts and telegraphs did develop.

S6: Naturally, therefore, these areas remained inaccessible to the people.

P: There always remained an acute shortage of all-weather roads to reach out to the rural areas during the rainy season.

Q: Roads constructed in India prior to the advent of British rule were not fit for modern transport.

R: However, the real motive behind this development was not necessarily to provide basic amenities to the people but to subserve various colonial interests.

S: The roads that were built primarily served the purposes of mobilizing the army within India and drawing out raw materials from the countryside to the nearest railway station.

- (a) SPQR
- (b) PQSR
- (c) QPRS
- (d) RQSP

ANSWER: D

13. S1: Contemporary history is necessary, but it is at best a tentative record.

S6: Some portentous events can be seen to be so from the moment of their occurrence, like the discovery of the New World; others of comparable momentousness are hidden in obscurity.

P: The relevance of the issue of proportion is significant.

Q: It possesses, indeed, a massive supply of public record, but it necessarily lacks the inner knowledge of politicians' minds, of planners' proposals, of scientists' discoveries, of technicians' break-throughs.

R: It also lacks perspective since it is bereft of a sense of proportion.

S: It is impossible, over just a few years of observation, to estimate accurately the significance of various events.

(a) QPSR

(b) SRPQ

(c) QSRP

(d) PRSQ

ANSWER: A

14. S1 Income inequality in less-developed countries is worse than most estimates

S6: The tax regime in these countries needs to be progressive and futuristic.

P: There is a staggering level of difference between the income metrics and the actual income of the prosperous in such countries

Q: The effective tax rates are not really progressive with regard to income.

R: They need to be reengineered to bring into the tax net the enormous sums of missing income

S: They are even less so with regard to wealth

(A) PQSR

(B) QSPR

(C) QSRP

(D) SRPQ

ANSWER: A

15. S1: The history of English literature is usually divided into different periods.

S6: This is the real danger of periodization, which tends to give the impression of distinct categories where there are none.

P: However there are important discontinuities to be kept in mind.

Q: Each period has unique features that produce certain family resemblances between the writers of a particular period.

R: Scholars often specialize in periods such as Medieval, Renaissance, Romantic, Victorian, and Modern literature.

S: Failure to detect these discontinuities often produce a false sense of uniformity and consensus within a period.

(a) P Q R S

(b) RQPS

(d) PSQR

(a) RSPQ

ANSWER: B

Directions: In the following five items, each item has a sentence with three underlined parts labelled as ,a)(b), and (c). Read each sentence and identify any error in any underlined part, and indicate your response on the Answer Sheet against the corresponding letter, i.e. (a) (b) or (c). If you find no error, your response should be indicated as (d).

16. Ramesh liked his friend's music player to his own. No error

a

b

c

d

ANSWER: A

17. Given the complex of the problem the committee is not expected to arrive at a decision a n y time soon. No error

a

b

c

d

ANSWER: A

18. The group of students on a visit to Srinagar • circumnavigated around the Dal Lake. No error

a

b

c

d

ANSWER: A

19. Jitender was the smartest of the two children in the room. No error

a

b

c

d

ANSWER: A

20. He asked me if I would be interested in signing up as a member of the group. No error

a

b

c

d

ANSWER: D

21. **Who among the following was a companion of freedom fighter Rani Chennamma of Kittur and continued the fight against the British after the Rani's capture by the British in 1824 ?**

- (a) Rayanna
- (b) Tipu Garo
- (c) Jagbandhu
- (d) Dukaribala Devi

ANSWER: A

22. **The First Indian Factories Act, passed in 1881, dealt primarily with:**

- (a) Women labour
- (b) Living conditions of factory workers
- (c) Child labour
- (d) Textile workers

ANSWER: C

23. **Where was Azad Hind Fauj (INA) formed?**

- (a) Singapore
- (b) Tokyo
- (c) Berlin
- (d) Rangoon

ANSWER: A

24. **In 1927, Lord Birkenhead, Secretary of State for India, appointed a Committee of three members to enquire into the relationship between the Indian States and the British Government and to make suggestions for more satisfactory adjustment of the existing economic relations between the Indian States and British India. Who among the following was not a member of the Committee?**

- (a) Harcourt Butler

- (b) A.J. Wilson
- (c) W.S. Holdsworth
- (d) S.C. Peel.

ANSWER: B

25. Which of the following statements are correct?

1. Under the Cornwallis System, the districts were divided into thanas or police jurisdictions of 20-30 miles. square.
2. Each of them was placed under an officer of government, under the denomination of daroga.
3. The daroga system was introduced in Madras in 1812.
4. The daroga was nominated by the district magistrate.

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2, 3 and 4
- (c) 1, 3 and 4
- (d) 1, 2 and 4

ANSWER: D

26. Model Standing Orders formed under the Industrial Employment (Standing Orders) Act, 1946 shall not apply to an establishment in respect of which the Appropriate Government is that of the State of:

- (a) Madhya Pradesh
- (b) Gujarat
- (c) Kerala
- (d) West Bengal

ANSWER: B

27. An 'out-worker' is expressly excluded from the definition of 'workman' under which one of the following legislations?

- (a) The Factories Act, 1948
- (b) The Plantations Labour Act, 1951
- (c) The Contract Labour (Regulating and Abolition) Act, 1970
- (d) The Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979

ANSWER: C

28. Which one of the following nature of work shall not be taken into account while the Appropriate Government Considers prohibiting employment of contract labour in an establishment under the Contract Labour (Regulation and Abolition) Act, 1970 ?

- (a) The process, operation or other work is incidental to or necessary for the industry
- (b) The work is of a permanent nature
- (c) The work is done ordinarily through regular workmen
- (d) The work is of intermittent nature

ANSWER: D

29. Which of the statements relating to the Grievance Redressal Committee under the Industrial Disputes Act, 1947 is not correct?

- (a) It shall consist of equal number of members from among employer and 32 workmen.
- (b) It shall be constituted in an industrial establishment employing twenty or more workmen.
- (c) The Chairperson of the Committee shall be nominated by the Appropriate Government.
- (d) The total members of the Committee shall not be more than six.

ANSWER: C

30. Under the provisions of the Factories Act, 1948, a Safety Committee is to be constituted in a factory where:

- (a) 1000 or more workers are employed
- (b) Hazardous substances are used or handled
- (c) Heavy machinery is utilized
- (d) 500 or more workers are employed

ANSWER: B

31. The eight-digit number 789459xy is divisible by 88, where x and y are digits. What are the possible values of x and y ?

- (a) $x = 1, y = 2$
- (b) $x = 2, y = 2$
- (c) $x = 3, y = 6$
- (d) $x = 4, y = 4$

ANSWER: D

32. If x is the smallest natural number that is divisible by both 24 and 30, whereas y is the largest natural number that divides both 36 and 100, then what is the value of x-y?

- (a) 116
- (b) 124
- (c) 128
- (d) 132

ANSWER: A

33. What is the digit in the unit place of $2^{2^{100}}$?

- (a) 2
- (b) 4
- (c) 6
- (d) 8

ANSWER: C

34. A runner completed a 40 km race in 3 hours. She changed her speed after completing each quarter of the distance such that the first, proportion of the speeds in second, third and the fourth quarter, is given by 2:3:4:5 respectively. In how much time then (approximately) did she complete the last quarter of the race?

- (a) 32 minutes

- (b) 31 minutes
- (c) 29 minutes
- (d) 28 minutes

ANSWER: D

35. If there are enough coins of denomination 1, 2 and 5, then in how many ways can one pay 10?

- (a) 8
- (b) 9
- (c) 10
- (d) 11

ANSWER: C

36. Which of the following is included in the "Cost of Inventory' according to Accounting Standard-2 (Inventory Valuation):

- (a) Administrative overheads that do not contribute to bringing the inventories to their present location and condition
- (b) Storage costs which are necessary in the production process prior to a further production stage
- (c) Selling and distribution costs
- (d) Duties and taxes paid on purchases, subsequently recoverable by the enterprise from the Tax Authorities

ANSWER: B

37. Following is the trial balance of a firm as on 31.03.2022:

Trade receivables	2,50,000	
Provision for discount to debtors		14,000
Discount to debtors	4,000	

Additional discount allowed to debtors during the year is 20,000. The firm has a policy of maintaining a provision for discount to debtors equal to 10% of the Trade Receivables" balances. Total amount to be charged to Profit and Loss Account (for the year ending 31.03 2022) for discount allowed and provision for discount created will be:

- (b) 25,000
- (b) 13,000
- (c) 9,000
- (d) 33,000

ANSWER: D

38. Consider the following information:

Date	Particulars	Units	Rate per unit (2)
January 1	Inventory in Hand	200	7
January 8	Purchases	1100	8
January 25	Purchases	300	9
January 6	Issued for sale	100	-
January 9	Issued for sale	200	-

Which one of the following is the value of inventory on January 31 under perpetual inventory system using First-In-First-Out (FIFO) method?

- (a) 6,700
- (b) 8,700
- (c) 10,700
- (d) 12,000

ANSWER: C

39. Following is the information relating to a club for the year ending 31.03.2022:

Subscription outstanding as on 31.03.2021	16,000
Subscription outstanding as on 31.03.2022	18,000
Subscription received in advance as on 31.03.2021	12,000
Subscription received in advance as on 31.03.2022	11,000

There are 70 members each paying an annual subscription of 1,000. Total subscription received during the year 2021-22 will be:

- (a) 67,000
- (b) 71,000
- (c) 69,000
- (d) 77,000

ANSWER: A

40. Reporting on fraud is to be made by an auditor to the Central Government when the sums involved in the fraud:

- (a) exceed 20 lakh
- (b) exceed 50 lakh
- (c) exceed 75 lakh
- (d) are 1 crore or above

ANSWER: D

41. A train of length 400 m takes 15 seconds to cross a train of length 300 m travelling at 60 km per hour from the opposite direction along a parallel track. What is the speed of the longer train, in km per hour?

- (a) 108
- (b) 102
- (c) 98
- (d) 96

ANSWER: A

42. There is a water tank in the form of a rectangular parallelepiped of height 11 m and a square base of side 2 m. If a full tank of water is drained out completely in a long pipe of circular cross-sectional area of radius 1 cm, what should be the minimum length of the pipe, in km, to hold the entire water in it? (Take = $22/7$)

- (a) 12
- (b) 13
- (c) 14

(d) 15

ANSWER: C

43. A person buys ten pens and eight pencils for 200. Price of each pen is same and price of each pencil is same. If he could have bought five pens and twenty-four pencils of same types using the same amount, then what is the price of each pen in rupees?

(a) 16

(b) 15

(c) 14

(d) 13

ANSWER: A

44. A school has 100 students and every student plays either cricket or football or both. The number of students who play cricket is twice the number of students who play football. Also, the number of students who play only cricket is three times the number of students who play only football. The number of students who play both cricket and football is, therefore:

(a) 30

(b) 28

(c) 25

(d) 20

ANSWER: D

45. A man walks in a certain direction for 5 km and then walks in the south direction for 4 km. If he ends up in the east direction with respect to the starting position, how far is he from the starting position?

(a) 2 km

(b) 3 km

(c) 4 km

(d) 5 km

ANSWER: B

46. The beneficiaries under the Integrated Child Development Services (ICDS) Scheme are children in the age group of:

(a) 0-6 years

(b) 0-3 years

(c) 3-6 years

(d) 6-15 years

ANSWER: A

47. Which of the following statements about 'Truck farming' is/are correct?

1. Growing vegetable around urban centres to meet the daily demand of people is known as Truck Farming.

2. It is governed by the distance a truck can cover overnight between the farm and the market.

Select the correct answer using the code given below:

(a) 1 only

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

ANSWER: C

48. Which of the following statements with reference to the service sector is/are correct?

1. Retail trade falls under tertiary activity. Research and Development based
2. Research and Development based activity comes under quaternary activity

Select the correct answer using the code given below:

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

ANSWER: C

49. Which of the following statements about the National Skill Development Corporation is/are not correct?

1. It is a not-for-profit Public Limited Company set up by the Ministry of Skill Development and Entrepreneurship.
2. It promotes skill development by catalysing the creation of only large, quality and non-profit vocational institutions.

Select the correct answer using the code given below:

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

ANSWER: C

50. Which of the following statements with reference to the Atal Vayo Abhyuday Yojana (AVYAY) is/are correct?

1. Fulfil basic needs of destitute elderly citizens
2. Build and strengthen intergenerational relationships through Regional Resource and Training Centres
3. Provide guaranteed monthly pension to elderly citizens
4. Establish Atal Incubation centres for elderly citizens

Select the correct answer using the code given below:

- (a) 1, 2, and 4
- (b) 3 and 4 only
- (c) 1 and 2 only
- (d) 1 only

ANSWER: D

51. Consider the following statements:

Statement 1:

In India, Central Government determines the inflation target, in consultation with Reserve Bank of India, in terms of Consumer Price Index once in five years.

Statement II:

At present, the Monetary Policy framework in India is operated by Central Government.

Which of the following is correct in respect of the above statements?

- (a) Both statement I and statement II are correct and statement II is the correct explanation for statement I
- (b) Both statement I and statement II are correct and statement II is not the correct explanation for statement I
- (c) Statement I is correct but statement II is incorrect
- (d) Statement I is incorrect but statement II is correct

ANSWER: C

52. Consider the following statements:

Statement 1:

In India, the RTGS and NEFT payment systems are owned and operated by National Payment Corporation of India.

Statement II:

National Payment Corporation of India is an entity promoted by banks.

Which of the following is correct in respect of the above statements?

- (a) Both statement I and statement II are correct and statement II is the correct explanation for statement I
- (b) Both statement I and statement II are correct and statement II is not the correct explanation for statement I
- (c) Statement I is correct but statement II is incorrect
- (d) Statement I is incorrect but statement II is correct

ANSWER: D

53. Consider the following statements:

Statement I:

A very strong US Dollar squeezes global credit.

Statement II:

Many countries and companies outside America borrow in Dollars.

Which of the following is correct in respect of the above statements?

- (a) Both statement I and statement II are correct and statement II is the correct explanation for statement I
- (b) Both statement I and statement II are correct and statement II is not the correct explanation for statement I
- (c) Statement I is correct but statement II is incorrect
- (d) Statement I is incorrect but statement II is correct

ANSWER: A

54. Consider the following statements:

Statement 1:

The Government of India mandates the packaging of 100% sugar and food grains in diversified jute bags.

Statement II:

The Government of India enacted the Jute Packaging Materials (Compulsory Use in Packing Commodities) Act, 1987.

Which of the following is correct in respect of the above statements?

- (a) Both statement I and statement II are correct and statement II is the correct explanation for statement I
- (b) Both statement I and statement II are correct and statement II is not the correct explanation for statement I

- (c) Statement I is correct but statement II is incorrect
(d) Statement I is incorrect but statement II is correct

ANSWER: D

55. Recently which one among the following committed up to \$ 25 billion for the next five years to fund India's infrastructure creation under the Prime Minister Gati Shakti initiative as well as social development and climate action, thus aiding India's aspirations for green growth?

- (a) Asian Development Bank
(b) International Finance Corporation
(c) New Development Bank
(d) World Bank

ANSWER: A

56. Large Language Models', sometimes described in news, can be used in which of the following?

1. Creation of reimagined search engines
2. Health care
3. Software development
4. Translating a language

Select the correct answer using the code given below:

- (a) 1 and 3 only
(b) 1, 2 and 4 only
(c) 2, 3 and 4 only
(d) 1, 2, 3 and 4

ANSWER: D

57. With reference to the three types of carbon emissions from companies, consider the following pairs:

Emission	Example
1. Scope 1 emissions	: Emissions as a result of employee commuting, business travel and waste produced
2. Scope 2 emissions	: Emissions as a result of purchase of electricity steam, heating and cooling for own use
3. Scope 3 emissions	: Emissions from fuels consumed by company vehicles, owned and leased

Which of the above pairs is/are correctly matched?

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

ANSWER: B

58. Quantified Domestic Minimum Top-up Tax' in generally talked about in the context of:

- (a) Global Anti-Base Erosion Rules
(b) Prevention of Money Laundering
(c) Regulation of Crypto-currency
(d) Virtual Digital Asset Transactions

ANSWER: A

59. Which one of the following statements best describes the term 'Prowess sometimes seen in news?'

- (a) A special-purpose supercomputer with a hardware architecture dedicated to a single problem
- (b) A database of the financial performance of companies that is specially designed for academia
- (c) A computing machine that uses the properties of quantum physics to store data and perform computation
- (d) A database in which collection and storing of data is done on user's system and this is basically designed for a single user

ANSWER: B

60. NSE Prime', sometimes mentioned in news, denotes:

- (a) A high standard corporate governance initiative
- (b) Long-duration Sovereign Green Bonds
- (c) Concessions and tax-holidays for hi-tech startup companies
- (d) Special privileges for certain categories of Non-Banking Financial Institutions

ANSWER: A

61. Overhauling expenses of 25,000 for the engine of a motor car to get better fuel efficiency is :

- (a) Deferred revenue expenditure
- (b) Revenue receipt
- (c) Capital expenditure
- (d) Revenue expenditure

ANSWER: D

62. Which one of the following statements is not correct?

- (a) Depreciation is a non-cash expense.
- (b) Depreciation is the process of valuation of assets.
- (c) The main cause of depreciation is wear and tear caused by usage.
- (d) Depreciation must be charged so as to ascertain true profit or loss of a business.

ANSWER: B

63. A credit purchase of machinery recorded in Purchase Book instead of Journal Proper is an example of:

- (a) Compensating errors
- (b) Errors of commission
- (c) Errors of principle
- (d) Errors of omission

ANSWER: C

64. The practice of appending notes regarding contingent liability in accounting statements is pursuant to:

- (a) Convention of consistency
- (b) Money measurement concept

- (c) Convention of conservatism
- (d) Convention of full disclosure

ANSWER: D

65. Outstanding rent' may be classified as :

- (a) Natural personal account
- (b) Representative personal account
- (c) Real account
- (d) Nominal account

ANSWER: B

66. Which of the following tag is used to insert comments in the HTML source code?

- (a) `</ -->`
- (b) `<!-- -->`
- (c) `<- !-->`
- (d) `</-- -/>`

ANSWER: B

67. Which one among the following is used to create an e-mail hyperlink to a webpage?

- (a) mail:
- (B) mailto:
- (c) tomail:
- (d) tomial:

ANSWER: B

68. In the context of a buffer in memory area or disk, spool refers to:

- (a) Simple peripheral operation on-line
- (b) Simple peripheral operation off-line
- (c) Simultaneous peripheral operation on-line
- (d) Simultaneous peripheral operation off-line

ANSWER: C

69. Which one of the following is not commutative law?

- (a) $A * b = b * A$
- (b) $A + b = b + A$
- (c) $A - b = b - A$
- (d) $A * B = B * A$

ANSWER: C

70. Which OSI layer is responsible for managing the communication between computers in the network?

- (b) Network layer

- (b) Transport layer
- (c) Session layer
- (d) Data link layer

ANSWER: D

71. Consider the following statements about DNA:

1. DNA refers to Deoxyribonucleic Acid.
2. It is located in the ribosomes.
3. It is composed of Ribonucleic Acid.
4. It can make a copy of itself.

Which of the statements given above is/are correct?

- (a) 1 and 4
- (b) 1 and 3
- (c) 4 only
- (d) 2 and 3

ANSWER: A

72. Velamen, a spongy tissue, is formed in:

- (a) Tap root
- (b) Epiphytic root
- (c) Fibrous root
- (d) Respiratory root

ANSWER: B

73. Which one of the following statements is not correct?

- (a) Hydrogen ions cannot exist alone.
- (b) All compounds containing hydrogen are acidic.
- (c) Separation of H^+ ions from HCl molecules cannot occur in the absence of water.
- (d) Water soluble bases are known as alkalis.

ANSWER: B

74. Which one of the following elements has the highest boiling point?

- (a) Lithium
- (b) Sodium
- (c) Potassium
- (d) Rubidium

ANSWER: A

75. An ice cube with 10 cm side is divided into eight smaller cubes, each with same side. Which one of the following statements is correct in this context?

- (a) Total volume will increase and total surface area will decrease.

- (b) Total volume will decrease and total surface area will increase.
- (c) Total volume will remain the same and total surface area will increase.
- (d) Total volume will increase and total surface area will remain the same.

ANSWER: C

76. Which of the following statements regarding the attendance of retired judges at sittings of the Supreme Court of India is/are correct?

1. Article 128 permits the attendance of retired judges at the sittings of the Supreme Court.
2. The Chief Justice of India may at any time request anyone who has held office as a Judge of the Supreme Court or of a High Court to sit and act as a Judge of the Supreme Court.
3. The Chief Justice of India may at any time, with the previous consent of the President of India, request any person who has held the office of Chief Justice of a High Court to sit and act as a Judge of the Supreme Court.
4. The Chief Justice of India may at any time, with the previous consent of the President of India, request any person who has held the office of a Judge of the Supreme Court to sit and act as a Judge of the Supreme Court.

Select the correct answer using the code given below:

- (a) 1 and 4
- (b) 1 and 3
- (c) 2 and 4
- (d) 4 only

ANSWER: A

77. The board of a cooperative society can be superseded or kept under suspension if:

1. There is negligence in the performance of duties.
2. There is any act prejudicial to the interest of the co-operative society or its members.
3. The body has failed to conduct elections in accordance with the provisions of the State Act.
4. There is no Government shareholdings or loan or financial assistance or any guarantee by the Government.

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 3 and 4 only
- (d) 1, 2 and 3

ANSWER: D

78. Which of the following statements regarding the Member of Parliament Local Area Development Scheme are correct?

1. The nodal ministry for the scheme is the Ministry of Statistics and Programme Implementation.
2. Funds released under the scheme are non-lapsable.
3. The role of the Member of Parliament is limited to recommending works.
4. The scheme is confined to the State from which the Member of Parliament is elected (Lok Sabha). However, Member of Parliament from Rajya Sabha can recommend works anywhere in the country.

Select the correct answer using the code given below:

- (a) 1 and 4 only
- (b) 1, 2 and 3 only

(c) 2, 3 and 4 only

(d) 1, 2, 3 and 4

ANSWER: B

79. The Global Multidimensional Poverty Index developed by the United Nations Development Programme is a measurement of:

1. Nutrition
2. Cooking fuel
3. Assets
4. School attendance

Select the correct answer using the code given below:

(a) 1, 2, 3 and 4

(b) 1, 2 and 3 only

(c) 2, 3 and 4 only

(d) 1 and 4 only

ANSWER: A

80. Which one of the following was not recommended by the Dinesh Goswami Committee (1990)?

- (a) The appointment of the Chief Election Commissioner should be made by the President of India in consultation with the Chief Justice of India and the Leader of the Opposition.
- (b) The members of the Election Commission should be appointed by the President of India on the advice of a Committee, consisting of the Prime Minister and the Leader of the Opposition.
- (c) The consultation process should have a statutory backing.
- (d) The appointment of the other Election Commissioners should be made in consultation with the Chief Election Commissioner, the Chief Justice of India and the Leader of the Opposition.

ANSWER: B

81. Which one of the following was not provided in the Regulating Act of 1773?

- (a) It made the Presidency of Bengal supreme over those of Bombay and Madras in matters relating to war and peace.
- (b) The tenure of the Governor-General and his Councillors was fixed as five years.
- (c) The Supreme Court of Justice was established at Calcutta.
- (d) The Governor-General-in-Council was authorized to appoint successors to Bombay and Madras Presidencies.

ANSWER: B

82. Which one of the following statements about the Government of India Act of 1935 is not correct?

- (a) It was an outcome of the Round Table Conferences.
- (b) It provided for the establishment of an All-India Federation.
- (c) It retained the authority of the Secretary of State over the Government of India.
- (d) It introduced the provision of Provincial Autonomy.

ANSWER: C

83. Match List I with List II and select the correct answer using the code given below the Lists:

List I (Congress Session)	List II (President)
A. Lahore Session, 1909	1. Madan Mohan Malaviya
B. Calcutta Session, 1911	2. Raghunath Narasinha Mudholkar
C. Bankipore Session, 1912	3. Bishan Narayan Dar
D. Madras Session, 1914	4. Bhupendra Nath Bose

Code:

- (a) A-1, B-3, C-2, D-4
- (b) A-1, B-2, C-3, D-4
- (c) A-4, B-2, C-3, D-1
- (d) A-4, B-3, C-2, D-1

ANSWER: A

84 Who among the following started the Bhonsala Military School at Nashik ?

- (a) V.D. Savarkar
- (b) M.R. Jayakar
- (c) N.C. Kelkar
- (d) B.S. Moonje

ANSWER: D

85. Arrange the following events associated with Pandit Madan Mohan Malaviya in chronological order, starting with the earliest :

1. Founding of the Banaras Hindu University
2. Formation of the Congress Nationalist Party
3. Founding of the English newspaper "The Leader"
4. Founding of the Hindu Boarding House at Allahabad

Select the correct answer using the code given below:

- (a) 3-4-1-2
- (b) 4-3-1-2
- (c) 4-3-2-1
- (d) 3-4-2-1

ANSWER: B

86. An employee shall be covered under the provisions of the Payment of Wages Act, 1936, should the employee be drawing a maximum monthly wage of:

- (a) Rupees fifteen thousand
- (b) Rupees eighteen thousand
- (c) Rupees twenty-one thousand
- (d) Rupees twenty-four thousand

ANSWER: D

87. A minimum rate of remuneration which shall be applied to an employee working on piece work for the purpose of securing to such employees a minimum rate of wages on a time work basis under the Minimum Wages Act, 1948 is known as:

- (a) A minimum piece rate
- (b) A guaranteed time rate
- (c) A minimum time rate
- (d) A guaranteed piece rate

ANSWER: B

88. Match List I with List II and select the correct answer using the code given below the Lists:

List I (Provision)	List II (Legislation)
A. Recovery Officer	1. The Industrial Employment (Standing Orders) Act, 1946
B. Compulsory Insurance	2. The Minimum Wages Act, 1948
C. Scheduled Employment	3. The Payment of Gratuity Act, 1972
D. Subsistence Allowance	4. The Employees' Provident Fund and Miscellaneous Provisions Act, 1952

Code:

- (a) A-4, B-3, C-2, D-1
- (b) A-4, B-2, C-3, D-1
- (c) A-1, B-2, C-3, D-4
- (d) A-1, B-3, C-2, D-4

ANSWER: A

89. An adult worker who has joined on 1st January, 2022 in a factory and worked for 220 days during the year has been laid off for 25 days as per Standing Orders during the year. How many days of leave with wages. shall he be entitled to during the calendar year 2023?

- (a) Nil
- (b) 10
- (c) 12
- (d) 11

ANSWER: C

90. As per the provisions of the Industrial Employment (Standing Orders) Act, 1946, standing orders shall come into operation after the expiry of how many days from the date on which copies of the order of the Appellate Authority are sent to the employer and to the trade unions?

- (a) Seven days
- (b) Ten days
- (c) Fifteen days
- (d) Thirty days

ANSWER: D

91. How many members are to be nominated by the Central Government to the National Social Security Board as per the provisions of the Unorganised Workers' Social Security Act, 2008?

- (a) Eighteen
- (b) Twenty
- (c) Twenty-six
- (d) Thirty-four

ANSWER: D

92. Which one of the following schemes is not a Social Security Scheme under the Unorganised Workers' Social Security Act, 2008 ?

- (a) National Family Benefit Scheme
- (b) Janshree Bima Yojana
- (c) Employees' Pension Scheme
- (d) Rashtriya Swasthya Bima Yojana

ANSWER: C

93. Which one of the following authorities constituted by the Central Government shall be the Appellate Authority under the Employees' Provident Fund and Miscellaneous Provisions Act, 1952 ?

- (a) Employees Provident Funds Appellate Tribunal
- (b) National Tribunal
- (c) Labour Appellate Tribunal
- (d) Industrial Tribunal

ANSWER: A

94. As per the provisions of the Maternity Benefit Act, 1961, the maximum period for which a female employee shall be entitled to leave with Wages as maternity benefit for giving birth to the third child is:

- (a) Eight weeks
- (b) Twelve weeks
- (c) Sixteen weeks
- (d) Twenty-six weeks

ANSWER: B

95. Which one of the following statements under the Employees' Provident Fund and Miscellaneous Provisions Act, 1952, is not correct?

- (a) It makes provision for pension scheme including family pension.
- (b) It makes provision for Employees' Deposit Linked Insurance Scheme.
- (c) The provisions of the Act shall not be applicable to Cooperative Societies employing fifty or more persons working without the aid of power.
- (d) The contribution by the employer to the Fund shall be on the basis of the basic wage, dearness allowance and retaining allowance (if any) of the employee.

ANSWER: C

96 In a desert, X and Y are two spots that are separated by 100 km. At point X, are placed two pillars, one black and one white. Along the line joining X and Y, a white pillar is placed for every 180 m and a black pillar is placed for every 350 m. How many times can one find black and white pillars together while traveling from X to Y?

- (a) 14
- (b) 15
- (c) 16
- (d) 17

ANSWER: C

97. P, Q, R, S, T and U are six friends. Which of the following is/are sufficient to compare heights of S and T?

1. R is shorter than P but taller than other friends.
2. U is taller than Q but shorter than S although Q is not the shortest among the friends.

Select the correct answer using the code given below:

- (a) 1 alone is sufficient
- (b) 2 alone is sufficient
- (c) Both 1 and 2 are not sufficient
- (d) 1 and 2 together are sufficient

ANSWER: C

98. Eight chairs are placed at a uniform distance from each other around a round table. C and D are equal distance away from both A and B; E sits between A and C; G and F sit opposite each other. Where does H sit?

- a) Adjacent to D
- (b) Adjacent to A
- (c) Adjacent to F
- (d) Adjacent to G

ANSWER: A

99. A, B and C can individually finish a job in 10, 15 and 6 days, respectively. If all of them work together, in how many days will they finish the job?

- (a) 2 days
- (b) 3 days
- (c) 4 days
- (d) 5 days

ANSWER: B

100. A dice is thrown two times. The number of ways that the number appearing on the first throw is not less than that on the second throw is:

- (a) 15
- (b) 20
- (c) 21
- (d) 36

ANSWER: C

101. Which one of the following is not a security protocol ?

- (a) TLS
- (b) SSL
- (c) IPsec
- (d) MIME

ANSWER: D

102. LaTeX document does not contain:

- (a) `\documentclass{article}`
- (b) `\begin{document}`
- (c) `\end{document}`
- (d) `\documentstyle{article}`

ANSWER: D

103. The decimal equivalent of $(.1101)_2$ is:

- (a) 0.8122
- (b) 0-8123
- (c) 0.8124
- (d) 0.8125

ANSWER: D

104. In a worksheet, which one of the following is not a cell referencing style ?

- (a) Relative referencing
- (b) Real-time referencing
- (c) Absolute referencing
- (d) Mixed referencing

ANSWER: B

105. Which one among the following is used to combine several object modules and libraries to a single executable program?

- (a) Interpreter
- (b) Compiler
- (c) Linker
- (d) Loader

ANSWER: C

106. An incandescent bulb rated as 100 W at 110 V is connected to a 220 V power supply. The power that dissipates in the bulb would be:

- (a) 50 W
- (b) 100 W

(c) 200 W

(d) 400 W

ANSWER: C

107. If the length of a current carrying wire is halved, for a given potential difference, the current in the wire would:

(a) be doubled

(b) be halved

(c) remain unchanged

(d) become zero

ANSWER: A

108. Crystals of copper sulphate pentahydrate, on heating, form:

(a) blue colour salt

(b) white colour salt

(c) green colour salt

(d) brown colour salt

ANSWER: B

109. Tartaric acid is found in:

(a) Tamarind

(b) Tomato

(c) Orange

(d) Vinegar

ANSWER: A

110. Which one of the following is an example of chemical change?

(a) Melting of wax

(b) Heating of iron

(c) Dissolution of sugar in water

(d) Burning of magnesium in air

ANSWER: D

111. Which one of the following is not constitutional body in India? National Human Rights Commission body in India.

(a) National Human Rights Commission

(b) National Commission for Scheduled Tribes.

(c) National Commission for Backward Classes

(d) National Commission for Scheduled Castes

ANSWER: A

112. Which of the following is/are elements of India's 'Panchamrit view on climate change?

1. India will reach its non-fossil energy capacity of 500 GW by 2030.

2. India will meet 50% of its energy requirements from renewable energy by 2030.

Select the correct answer using the code given below:

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

ANSWER: C

113. What are the prerequisites for declaring any area as a 'Scheduled Area' under the Fifth Schedule of the Constitution of India?

- 1. Preponderance of Tribal Population
- 2. Compactness and reasonable size of the area
- 3. Economic backwardness of the area
- 4. The notification must be issued by the Governor of the concerned State

Select the correct answer using the code given below:

- (a) 2 and 4 only
- (b) 1, 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2, 3 and 4

ANSWER: B

114. The Railway Budget was separated from General Budget owing to:

- (a) Distributive Convention of 1925
- (b) Separation Convention of 1924
- (c) Bifurcation of Estimates of 1924
- (d) Equalising Convention of 1925

ANSWER: B

115. Which of the following statements regarding the non-electric cooling cabinet, for which the Bureau of Indian Standards (BIS) has recently developed an Indian Standard (IS 17693: 2022), is/are correct?

- 1. It is a natural refrigerator made primarily to store vegetables, fruits, milk and also for cooling water.
- 2. This standard helps BIS in fulfilling 6 out of 17 United Nations Sustainable Development Goals.

Select the correct answer using the code given below:

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

ANSWER: C

116. Which of the following facilities are to be provided by the contractor to Inter-State migrant workers in connection with the work of an establishment to which the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979 is applicable?

1. Equal pay for equal work irrespective of sex
2. Provision for suitable residential accommodation
3. Provision for protective clothing
4. Provision for old age benefit scheme
5. Prescribed medical facilities

Select the correct answer using the code given below:

- (a) 2, 3 and 5 only
- (b) 2, 4 and 5 only
- (c) 1, 2, 3 and 5
- (d) 1, 3 and 4 only

ANSWER: C

117. A dispute relating to the age of an adolescent employed by an employer which arises due to the absence of any authentic document can be referred to which one of the following authorities for a decision under the Child and Adolescent Labour (Prohibition and Regulation) Act, 1986?

- (a) The Prescribed Medical Authority
- (b) The Labour Court
- (c) The Inspector appointed under the Act
- (d) The Appropriate Government

ANSWER: A

118. Under the provisions of the Factories Act, 1948, which one of the following statements relating to the appointment of the Chairman of the Site Appraisal Committee is correct?

- (a) Labour Commissioner of the State is the Chairman.
- (b) An independent person is appointed as the Chairman.
- (c) The Labour Minister of the State is the ex-officio Chairman.
- (d) The Chief Inspector of the State is the Chairman.

ANSWER: D

119. Match List I with List II and select the correct answer using the code given below the Lists:

List I (Provision)	List II (Act)
A. Displacement Allowance	1. The Factories Act, 1948
B. Certifying Surgeon	2. The Minimum Wages Act, 1948
C. Half-monthly payment	The Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979
D. Piece work	4. The Employees' Compensation Act, 1923

Code:

- (a) A-2, B-1, C-4, D-3
- (b) A-3, B-1, C-4, D-2
- (c) A-2, B-4, C-1, D-3
- (d) A-3, B-4, C-1, D-2

ANSWER: D

120. Under the provisions of the Industrial Dispute Act, 1947, right representation before a Labour Court or Industrial Tribunal or National Industrial Tribunal is:

- (a) A statutory right
- (b) Not at all permissible
- (c) Can be permitted by the forum if the other party does not object or gives consent
- (d) May be permitted if such permission is granted by the High Court of the State/Union Territory

ANSWER: C

