1. Match List I with List II:

<table>
<thead>
<tr>
<th>List I</th>
<th>List II</th>
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<tbody>
<tr>
<td>(a)</td>
<td>1. Frictional Force</td>
</tr>
<tr>
<td>(b)</td>
<td>2. Electric Force</td>
</tr>
<tr>
<td>(c)</td>
<td>3. Buoyant Force</td>
</tr>
<tr>
<td>(d)</td>
<td>4. Gravitational Force</td>
</tr>
</tbody>
</table>

(a) Apple falls from tree  
(b) Car comes to stop  
(c) Beam of Ink drops in printer  
(d) Helium Balloon rises from Land

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

Ans - (C) 4 1 2 3

2. What are deuterium and tritium?

(A) Two different elements  
(B) Two different compounds  
(C) Names of two ores  
(D) Isotopes of hydrogen

Ans - (D) Isotopes of hydrogen
3. Match the following

I. Carbon dioxide
(a) Vulcanization of rubber
(b) Fire extinguisher
(c) Insecticide
(d) Reducing agent

II. Fuel
(a) Carbon black
(b) Ink pigment
(c) Beverages
(d) Carbon monoxide

III. Rubber tires
(a) Fire extinguisher
(b) Ink pigment
(c) Beverages
(d) Carbon black

IV. Carbon disulphide
(a) Insecticide
(b) Beverages
(c) Fire extinguisher
(d) Carbon black

(A) I – (c) – (ii)  II – (d) – (iv)  III – (b) – (iii)  IV – (a) – (i)
(B) I – (c) – (iii)  II – (d) – (ii)  III – (b) – (i)  IV – (a) – (iv)
(C) I – (a) – (i)  II – (b) – (iii)  III – (d) – (iv)  IV – (c) – (ii)
(D) I – (b) – (iv)  II – (d) – (ii)  III – (c) – (iii)  IV – (a) – (i)

Ans - (A) I – (c) – (ii)  II – (d) – (iv)  III – (b) – (iii)  IV – (a) – (i)

4. Match the following:

(a) Pyridoxine  1. Vitamin B₃
(b) Riboflavin  2. Vitamin B₁
(c) Thiamine  3. Vitamin B₆
(d) Niacin  4. Vitamin B₂

   (a)  (b)  (c)  (d)

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

5. Five kingdom classification was proposed by

(A) Wittaker  (B) Dickens
(C) Charles Darwin  (D) Carl Linnaeus

Ans - (A) Wittaker

6. Match List I (vaccine) with List II (disease) and choose the correct answer:

List I  List II
(a) Pertusis  1. Typhoid
(b) Varicella  2. Chicken pox
(c) TAB  3. Polio
(d) OPV  4. Whooping cough

(a)  (b)  (c)  (d)
(A) 4 1 2 3
7. Selling equity shares of public sector enterprises refers to

(A) Bull market  (B) Exchange of shares  
(C) Disinvestment  (D) Open market operations

Ans - (C) Disinvestment

8. In calculating the country’s GNP at market prices which one of the following is not included?

(A) subsidies  (B) wages and salaries before tax  
(C) indirect taxes  (C) depreciation allowance

Ans - (C) depreciation allowance

Install Winmeen Mobile App: https://goo.gl/s3YY9V
9. National Small Industries Corporation (NSIC) was established in the year
(A) 1950  (B) 1955  (C) 1960  (D) 1965
Ans - (B) 1955

10. The basic aim of economic planning in India is promoting
(A) economic development  (B) increasing national income
(C) economic growth  (D) increasing employment opportunities
Ans - (C) economic growth

11. Which of the following are the sources to know about “Kalabhrs”?
I. Tamil Navalar Charithai
II. Yapperungalam
III. Periya Puranam
IV. Velvikkudi Plates
(A) I and II only  (B) I and III only
(C) I, II, III and IV  (D) I, III and IV only
Ans - (C) I, II, III and IV
### 12. Match the following:

- (a) Fort William was built in Calcutta  
  - 1. 1503
- (b) Dutch established factories in Pulicat  
  - 2. 1700
- (c) French established factories in Pondicherry  
  - 3. 1610
- (d) Albuquerque visited India  
  - 4. 1674

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<td>A</td>
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<tr>
<td>B</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>1</td>
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<tr>
<td>C</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>D</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>

Ans - (C)  
2 3 4 1

### 13. Which Russian traveller visited Bahmani Kingdom?

- (A) Ibn Batuta  
  - Niccolo de Conti
- (B) Marco Polo  
  - Athanasius Nikitin
- (C) Athanasius Nikitin  
  - Niccolo de Conti
- (D) Niccolo de Conti  
  - Athanasius Nikitin

Ans - (C) Athanasius Nikitin
14. Consider the following about “Gurudwara”.

1. Sikh Shrine is called a Gurudwara, meaning the doorway to the house of God.
2. The first Gurudwara was built by Guru Ram Singh.
3. Sikh Gurudwaras must have a religious flag called Nishan Sahib in front of the Gurudwara.

Choose the correct code:

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

Ans - (A) 1 and 3 only

“குருதுவார” பெறும் கிருஷ்ணமாலாகுமர கல்லறிகையும்:

1. அதிலிருந்து இலங்கையால் நடந்துகொள்ளப்பட்டுள்ள நிறுவப்பட்டு சிக் புட்டிய குருதுவாரங்கள்
2. புத்தான் குருதுவாரங்கள் அரும் இருப்பிட்டு கட்டுமான.
3. சிக் குருதுவாரங்கள் வட்ட முன்னாலோகமான திருச்சிற்காலம் குருதுவாரங்கள் உள்ளூர்க் கட்டுமான.

சிக்கார் அந்தியன் சுவர்பிள்ளையும்:

(A) 1 மண்டம் 3 மண்டம்
(B) 1 மண்டம்
(C) 2 மண்டம் 3 மண்டம்
(D) 1, 2 மண்டம் 3 மண்டம்

Ans - (A) 1 மண்டம் 3 மண்டம்

15. Who appointed Maharaja Ranjit Singh as the Governor of Lahore in 1799?

(A) Ahmed Shah Abdali
(B) Zaman Shah
(C) George Barlow
(D) Lord Minto

Ans - (B) Zaman Shah

1799-ஆம் ஆண்டில் லாஹோர் கைப்பற்றிய மகராணா சர்காரின் மூத்தர் கருத்துப்படையான பிறகு?

(A) அமெரிக்க அண்ட அமெரிக்க
(B) தமிழ் அண்ட
(C) தமிழ் மாராளின்
(D) மலாய் பிறப்பு

Ans - (B) தமிழ் அண்ட

16. Which two leaders participated in the 1st Round Table Conference held at London and explained the condition of the Harijans?

1. Dr.B.R. Ambedkar
2. Mahatma Gandhi
3. Irattai Mallai Sreenivasan
4. M.C. Raja
(A) 1 and 2 only  
(B) 1 and 3 only  
(C) 2 and 4 only  
(D) 1 and 4 only  

Ans - (B) 1 and 3 only

1. Dr. B. R. Ambedkar  
2. Subhas Chandra Bose  
3. Jinnah  
4. Selvaraj  

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

Ans – (B) 1 and 3 only

17. Choose the wrong statement :  
I. Subhas Chandra Bose started the forward Block party.  
II. He crossed the Indian Border on foot and reached Kabul.  
III. He did not meet Ribbentrop, the assistant of Hitler.  
IV. He was invited by Japanese Premies, Tojo  

(A) All the statements are wrong  
(B) All the statements are correct  
(C) I, II and III are correct IV is wrong  
(D) I, II and IV are correct III is wrong.

Ans – (D) I, II and IV are correct III is wrong.

18. Assertion : In 1940 at Lahore session the Pakistan resolution was passed by the Muslim League.  
Reason : Jinnah declared that the Muslims were not in minority and need a nation.  

(A) [A] is correct [R] is wrong  
(B) [R] is correct [A] is wrong  
(C) [A] and [R] are correct and [R] explains [A]  
(D) [A] and [R] are correct but [R] does not explain [A]
19. If a certain sum of money amounts to Rs. 16,940 in 6 years at 9%, with simple interest then find the principal amount
(A) Rs.11,500  (B) Rs.12,000  (C) Rs.11,000  (D) Rs.11,900
Ans – (C) Rs.11,000

20. A can finish a work in 18 days and b can do the same work in 15 days. B worked for 10 days and left the job. In how many days, A alone can finish the remaining work?
(A) 5 days  (B) 5 ½ days  (C) 6 days  (D) 8 days
Ans – (C) 6 days

21. Sixty machines can produce 4850 identical mobiles in 5 hours. How many mobiles would 25 machines produce in 6 hours?
(A) 3215  (B) 2425  (C) 4250  (D) 4210
Ans – (B) 2425
22. B is twice as old as A, but half the age of F. C is half the age of A but twice the age of D. Which two persons form the pair of youngest and oldest?

(A) F and A  (B) D and F  (C) B and F  (D) F and C

Ans – (B) D and F

23. If 6% savings of the salary of a person is Rs.3,000. Find his actual salary

(A) Rs.40,000  (B) Rs.50,000  (C) Rs.45,000  (D) Rs.43,000

Ans - (B) Rs.50,000

24. Find the total volume of 14 cubes whose edges are 12 cm, 13, ------, 25 cm respectively

(A) 621019 cm$^3$  (B) 269101 cm$^2$  (C) 962101 cm$^2$  (D) 101269 cm$^2$

Ans – (D) 101269 cm$^2$

25. The radii of two cylinders are in the ratio 3:5 and their heights are in the ratio 2:3. Find the ratio of their curved surface areas.

(A) 2:5  (B) 3:5  (C) 2 : 3  (D) 1:1

Ans - (A) 2:5

26. The radii of two cylinders are in the ratio 3:5 and their heights are in the ratio 2:3. Find the ratio of their curved surface areas.

(A) 2:5  (B) 3:5  (C) 2 : 3  (D) 1:1

Ans - (A) 2:5
28. The cost of carpeting a room of 18 m long with a carpet of 75 cm wide at Rs. 4.50 per meter is Rs. 810.

The breadth of the room is

(A) 7 m  (B) 7.5 m  (C) 8 m  (D) 8.5 m

Ans – (B) 7.5 m

29. A sum on compound interest becomes three times in 4 years. How many years will it take to become 27 times the original if the interest is calculated at the same rate.

(A) 8 years  (B) 12 years  (C) 24 years  (D) 36 years

Ans - (B) 12 years


Reasoning [R] : It gets lost in the sandy area of Rajasthan.

(A) Both [A] and [R] are correct and [R] is the correct explanation of [A]
(B) Both [A] and [R] are correct and [R] is not the correct explanation of [A]
(C) [A] is correct but [R] is false
(D) [A] is false but [R] is correct

Ans – (A) Both [A] and [R] are correct and [R] is the correct explanation of [A]
(a) Mariana  1. South Atlantic Ocean  
(b) Romanche  2. South Pacific Ocean  
(c) Sunda  3. North Pacific Ocean  
(d) Atakama  4. East Indian Ocean

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

33. Who decides the nature of the bill in the Lok Sabha?

(A) The Prime Minister  (B) The Speaker  
(C) The Leader of Opposition Party  (D) The Home Minister

Ans - (B) The Speaker

34. SAKSHAT was launched in Oct, 2006

(A) To facilitate life long learning of student, teachers and those in employment  
(B) To facilitate the requirement is the agricultural sector
(C) To facilitate marine requirement

(D) It is a satellite for telecommunication

Ans - (A) To facilitate life long learning of student, teachers and those in employment

Oct, 2006

35. Which of the following articles of the Indian constitution deals with the ‘abolition of untouchability’?

(A) Article 14

(B) Article 15

(C) Article 16

(D) Article 17

Ans - (D) Article 17

36. The main recommendation of “The Tarkunde Committee” on electoral reforms in 1975 is about

(A) Election commission should be made as a 3 member body

(B) Appointment of election commission members by PM in consultation with chief justice of India

(C) Appointment of election commission by president and prime minister

(D) Appointment of EC by prime minister, leader of opposition party in Lok Sabha and the chief justice of India

Ans - (D) Appointment of EC by prime minister, leader of opposition party in Lok Sabha and the chief justice of India.

37. Which of the following committee recommended the setting up of Central Vigilance Committee?

(A) Rajmunnar Committee
(B) Sarkaria Committee  
(C) Kothari Committee  
(D) Santhanam Committee  

Ans - (D) Santhanam Committee

38. The word ‘integrity’ was added in the preamble of the constitution of India in the year  
(A) 1956   (B) 1961   (C) 1976   (D) 1981  

Ans - (C) 1976

39. From which country we have borrowed the concurrent list ?  
(A) Canada   (B) Australia   (C) America   (D) England  

Ans - (B) Australia

40. Which country has won the Asian Nations cup chess Tournament – 2016 held at Abu Dhabi ?  
(A) Pakistan   (B) Malaysia   (C) India   (D) Sri Lanka  

Ans - (C) India

41. The Prime Minister of India has launched the Integrated power development scheme in which city, to provide 24 x 7 power supply to every house ?  
(A) Gandhi Nagar   (B) Varanasi   (C) Cochin   (D) New Delhi  

Ans - (B) Varanasi
42. Which State introduced “Akshaya e-learning” system?
(A) Maharastra  (B) Punjab  (C) Orissa  (D) Kerala
Ans - (D) Kerala

43. Tianhe – 2 is a
(A) Satellite  (B) Super Computer  (C) Telescope  (D) Missile
Ans - (B) Super Computer

44. The Satellite Kosmos 2510 was designed and launched by
(A) USA  (B) France  (C) Russia  (D) Japan
Ans - (C) Russia

45. The project by google in India to provide internet access to rural and remote is named as project google
(A) Glass  (B) Fiber  (C) Plex  (D) Loon
Ans - (D) Loon
Ans – (D) 2017

46. By which year the Digital India Programme is going to be implemented by the Department of Electronics and Information Technology to transform our country?

(A) 2023  (B) 2020  (C) 2018  (D) 2017

Ans - (C) 2018

47. The Sugamya Bharat Abhiyan does not aim

(A) to built accessible government buildings for person with disabilities
(B) to enhance accessibility and usability of public transport information and communication
(C) to increase the accessibility of physical environment in the country
(D) to impose fine on buildings inaccessible to persons with disabilities

Ans - (D) to impose fine on buildings inaccessible to persons with disabilities

48. The world’s lightest material called ‘Silica aerogel’ o ‘Blue air’ is manufactured at

(A) Vikram Sarabhai Space Central (VSSC) Thiruvananthapuram
(B) ISRO, Bangalore
(C) NRSC, Hyderabad
(D) SAC, Ahmedabad

Ans - (A) Vikram Sarabhai Space Central (VSSC) Thiruvananthapuram
49. Which states has “Cyber Park”?  
(A) Andhra Pradesh  
(B) Kerala  
(C) Rajasthan  
(D) Madhya Pradesh  
Ans - (B) Kerala

50. Absolute zero of temperature means  
(A) 0°C  
(B) 0°F  
(C) -273°C  
(D) -273°F  
Ans - (C) -273°C

51. When light enters from one medium to another then which characteristic is not changed?  
(A) colour of light  
(B) velocity of light  
(C) wavelength of light  
(D) frequency of light waves  
Ans - (D) frequency of light waves

52. Which law is called as the law of periods?  
(A) Kepler’s First Law  
(B) Kepler’s Second Law  
(C) Kepler’s Third Law
52. (D) Newton’s Law of Gravitation
Ans - (C) Kepler’s Third Law

(A) (B) (C) (D)

53. Find out the incorrect statement(s) :
I. All lanthanides are non-radioactive
II. Some actinides form MO2+, MO22+ oxocations
III. The compounds of lanthanides are more basic than that of actinide compounds
IV. 5f elements show variable oxidation states like +2, +3, +4, +5, +6 and +7

(A) I and II (B) II and IV (C) III only (D) IV only

Ans - (A) I and II

54. Moss cotton is
(A) Azolla (B) Funaria (C) Nitalla (D) Sphagnum

Ans - (D) Sphagnum

55. H.I.V has ____________ as genetic material.
(A) DNA (B) Single stranded DNA (C) Double stranded RNA (D) Single stranded RNA

Ans – (D) Single stranded RNA
57. The sequence of one systole followed by one diastole of the heart chambers is termed as

(A) Summation  (B) Cardiac cycle  (C) Refractory period  (D) Cardiac output

Ans - (B) Cardiac cycle

58. Which of the following is considered as ‘hot spot biodiversity’ in India?

(A) Aravalli Hills  (B) Western Ghats  (C) Indo-Gangetic  (D) Eastern Ghats

Ans - (B) Western Ghats

59. The tobacco industry is one of the oldest industries of India; belongs to

(A) Agro based and labour intensive  
(B) Agro based and capital intensive  
(C) Technology based and capital intensive  
(D) (B) and (C) are correct

Ans - (A) Agro based and labour intensive

59. Mark the following with their established year and choose the correct option:
(a) Chittarangan locomotion works 1. 1986
(b) Rail coach factory 2. 1984
(c) Integral coach factory 3. 1947
(d) Rail wheel factory 4. 1952

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<tr>
<td>D</td>
<td>2</td>
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Ans - (B) 3 1 4 2

61. C + I + G + (X - M) – formula is used to calculate

(A) GDP – Gross Domestic Product
(B) NNP – Net National Product
(C) PI – Personal Income
(D) GNP – Gross National Product

Ans - (D) GNP – Gross National Product

C + I + G + (X - M) – வருட கணிதமைத்தல் மதிப்பு கணிப்பால்
62. The approach followed by PURA model is
(A) Neo Gandhian approach
(B) Neo Nehruvian approach
(C) Gandhian – Nehru Compromise approach
(D) Socialistic approach
Ans - (A) Neo Gandhian approach

63. Consider the following pairs regarding Chalukas of Kalayani:
I. Kasivisvesvara Temple - Lakkundi
II. Mahadeva Temple - Nolambavadi
III. Sarasvati Temple - Gadge
Which of the pair given above is/are correct?
(A) I only
(B) II only
(C) I and III only
(D) II and III only
Ans - (C) I and III only

64. Choose the correct answer from the codes given below;
Which dynasty/dynasties introduced the construction of Gopuras in South Indian Temples?
(a) The Pallavs
(b) The Cholas
(c) The Pandyas
(d) The Vijayanagar rulers

(A) (a) only
(B) (b) and (c) only
(C) (a) and (c) only
(D) (c) and (d) only

Ans - (D) (c) and (d) only

65. Match List I with List II who helped to setup the steel plants :  

<table>
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<tr>
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<tbody>
<tr>
<td>(a) Rourkela</td>
<td>1. British</td>
</tr>
<tr>
<td>(b) Bhilai</td>
<td>2. German</td>
</tr>
<tr>
<td>(c) Durgapur</td>
<td>3. Russia</td>
</tr>
</tbody>
</table>

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

Ans - (A) 2 3 1
66. Consider the following statement and choose the correct answer from the codes given below:

[A] Assertion: Jawaharlal Nehru was the Chief Architect of India’s foreign policy.

[R] Reason: After Independence India wanted to maintain friendly relationship with America. Vijayalakshmi Pandit was appointed as American Ambassador in 1949.

(A) Both [A] and [R] are correct [R] is the correct explanation of [A]

(B) Both [A] and [R] are incorrect

(C) [A] alone is correct [R] is incorrect

(D) Both [A] and [R] are correct and [R] is not the correct explanation of [A]

Ans - (A) Both [A] and [R] are correct [R] is the correct explanation of [A]

67. Which of the statements given below is/are correct?

1. Congress forms the interim Government with Nehru as the vice – president.

2. Muslims league decides to join the Interim Government on October 13th 1946.

3. Constituent Assembly meets without Muslim league members on 9th December 1946.


(A) 1 and 3 only

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

1. The newspaper “Kesari” was published in English  
2. “The Mahratta” was issued in Marathi  
3. The book “Orion” was written by Tilak  
4. Tilak taught in the Fergusson college of Deccan  
(A) 1 and 2 only  
(B) 2 and 3 only  
(C) 3 only  
(D) 4 only  
Ans - (A) 1 and 2 only

Rao, Kaul, Bansal and Agarwal enter into a partnership, Rao, Kaul, Bansal subscribe 1/3rd, 1/4th, 1/5th of the investment respectively and Agarwal the rest. If the profit of ₹ 9,84,000 is divided according to their investment, what is Agarwal’s share of profit ?  
(A) ₹ 1,64,000  
(B) ₹ 2,13,200  
(C) ₹ 3,28,000  
(D) ₹ 1,96,800  
Ans - (B) ₹ 2,13,200
70. If \( a : b :: c : d \) is a proportion then, which one of the following is true?

(A) \( a : b :: d : c \)  
(B) \( (a + b) : b :: (c + d) : c \)  
(C) \( (a - b) : b :: (c - d) : d \)  
(D) \( b : a :: c : d \)  

Ans - (C) \( (a - b) : b :: (c - d) : d \)  

71. The H.C.F. of two numbers is 8. Which one of the following can never be their LCM?

(A) 24  
(B) 48  
(C) 56  
(D) 60  

Ans - (D) 60

72. H.C.F. of \( \frac{9}{10}, \frac{12}{25}, \frac{18}{35} \) and \( \frac{21}{40} \) is

(A) \( \frac{3}{5} \)  
(B) \( \frac{252}{5} \)  
(C) \( \frac{3}{1400} \)  
(D) \( \frac{63}{700} \)  

Ans - (C) \( \frac{3}{1400} \)  

9/10, 12/25, 18/35 மற்றும் 21/40 ஒவ்வொருவரும் (H.C.F) பெருக்க முறை காண்டே

(A) \( \frac{3}{5} \)  
(B) \( \frac{252}{5} \)  
(C) \( \frac{3}{1400} \)  
(D) \( \frac{63}{700} \)  

Ans - (C) \( \frac{3}{1400} \)  

73. Find the values of \( (1-\frac{1}{3})(1-\frac{1}{4})(1-\frac{1}{5})\ldots (1-\frac{1}{100}) \)

(A) \( \frac{1}{100} \)  
(B) \( \frac{1}{25} \)  
(C) \( \frac{1}{50} \)  
(D) 100  

Ans - (C) \( \frac{1}{50} \)  

\( (1-\frac{1}{3})(1-\frac{1}{4})(1-\frac{1}{5})\ldots (1-\frac{1}{100}) \) மற்றும் மற்றும் மற்றும்

(A) \( \frac{1}{100} \)  
(B) \( \frac{1}{25} \)  
(C) \( \frac{1}{50} \)  
(D) 100  

Ans - (C) \( \frac{1}{50} \)  

74. If the numerator of a fraction is increased by 15% and its diminished by 8%, then the value of the new fraction is 15/16. Find the original fraction.
75. What is the value of $3+4[a-\{13-4(7+2)+6\}+9]$ ?
(A) 231  (B) 213  (C) 123  (D) 132
Ans - (C) 123

76. The ratio of incomes of A and B is 5 : 4 and the ratio of their expenditure is 3 : 2. If at the end each month, each saves Rs. 1,600, then the monthly income of B is
(A) Rs. 3, 200  (B) Rs. 4,000  (C) Rs. 3,600  (D) Rs. 4,400
Ans - (A) Rs. 3, 200

77. The speed of three cars are in the ratio 5 : 4 : 6. The ratio between the time taken by them to travel the same distance is
(A) 5 : 4 : 6  (B) 6 : 4 : 5  (C) 10 : 12 : 15  (D) 12 : 15 : 10
Ans - (D) 12 : 15 : 10

78. Three solid cubes of sides 1cm, 6cm and 8cm are melted to form a new cube. Find the total surface area of the cube so formed?
(A) 384 cm$^2$  (B) 456 cm$^2$  (C) 486 cm$^2$  (D) 430 cm$^2$
Ans - (C) 486 cm$^2$
1. The Arabian sea branch of South West monsoon causes no rainfall to this region
   (A) Malabar coast  (B) Konkan coast  (C) Western ghats  (D) Coromandel coast
   Ans - (D) Coromandel coast

2. The simple interest at x% for x years will be Rs. X on a principal of
   (A) Rs. x  (B) Rs. 100/x  (C) Rs. 100x  (D) Rs. 100/x^2
   Ans - (B) Rs. 100/x

3. Three numbers are in the ratio 2 : 3 : 5. The first number, the second number reduced by 5 and the third number form an arithmetic sequence. Then the numbers are
   (A) 10, 15, 25  (B) -20, -30, -50  (C) 7, 10, 14  (D) -10, 5, 7
   Ans - (B) -20, -30, -50

4. The difference between simple interest and compound interest at 10% per annum each on Rs. 1,200 for one year if reckoned half yearly is
   (A) Rs. 2.50  (B) Rs. 3  (C) Rs. 4  (D) Rs. 4.50
   Ans - (B) Rs. 3
83. Identify the oil field which is not located in the west coast of India

(A) Bassein  (B) Ankleshwar  (C) Aliabet  (D) Nahorkatia

Ans - (D) Nahorkatia

84. The shape of the mid-Atlantic Ridge is

(A) ‘S’  (B) ‘L’  (C) ‘U’  (D) ‘T’

Ans - (A) ‘S’

85. The popular Stockholm Earth summit was held in

(A) 1972  (B) 1992  (C) 2002  (D) 2012

Ans - (A) 1972

86. Match the following:

<table>
<thead>
<tr>
<th>Initiatives for women empowerment</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Rashtriya Mahila Kosh</td>
<td>1. Women in villages and slum work in Angan – Wadi centres</td>
</tr>
<tr>
<td>(b) Swadhar</td>
<td>2. Upgrade skills of poor and asset – less women</td>
</tr>
<tr>
<td>(c) Training and employment</td>
<td>3. Credit facilities to women</td>
</tr>
<tr>
<td>(d) Indira Mahila Yojna</td>
<td>4. Address to the need of women in difficul circumstances</td>
</tr>
</tbody>
</table>

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

(A) 2 3 1 4

(B) 3 4 2 1
87. Which article of the Indian constitution define the fundamental duties of citizens?

(A) Article 51 A  
(B) Article 44  
(C) Article 41 A  
(D) Article 52  

Ans - (A) Article 51 A

88. The National Human Rights commission is a

(A) Statutory body  
(B) Non constitutional body  
(C) Autonomous body  
(D) Voluntary institution  

Ans - (A) Statutory body
89. Which among the following statements is NOT TRUE above CVC?

(A) is an apex Indian governmental body
(B) created in 1964
(C) is an investigating agency
(D) it has the status of an autonomous body

Ans - (C) is an investigating agency

90. Which part of the Indian constitution deals with Panchayat Raj?

(A) Part VIII  (B) Part X  (C) Part IX  (D) Part XI

Ans - (C) Part IX

91. Scientists of which country have recently discovered the new rare planet with triple star system?

(A) UK  (B) USA  (C) Canada  (D) Germany

Ans - (B) USA

92. When and where will the 22nd commonwealth games be held?

(A) 2020, Aukland, New Zealand  (B) 2022, Durban, South Africa
(C) 2018, Perth, Australia  (D) 2022, New Delhi, India
Ans - (B) 2022, Durban, South Africa

22-ஆம் ஆண்டில் தொடங்கப்பட்டுள்ள தேசியப் பொருளாதாரம் பார்வையிடப்பட்டுள்ளது, தற்கொண்ட பார்வையிடும் காலம் என்று கூறுவது?

(A) 2020, மூன்றாம் தேசியப் பொருளாதாரம் (B) 2022, மூன்றாம் தேசியப் பொருளாதாரம்

(C) 2018, மூன்றாம் தேசியப் பொருளாதாரம் (D) 2022, மூன்றாம் தேசியப் பொருளாதாரம்

Ans - (B) 2022, மூன்றாம் தேசியப் பொருளாதாரம்

93. ‘Ankush Dahiya’ is associated with which sports?

(A) Tennis  (B) Cricket  (C) Boxing  (D) Archery

Ans - (C) Boxing

‘அந்த்ருஷ் தாக்கியா’ கூறும் தேசியப்பொருளாதாரத்தில் தொடங்கும் காலம் என்று கூறுவது?

(A) மூன்றாம் தேசியப் பொருளாதாரம் (B) மூன்றாம் தேசியப் பொருளாதாரம்

(C) மூன்றாம் தேசியப் பொருளாதாரம் (D) மூன்றாம் தேசியப் பொருளாதாரம்

Ans - (C) மூன்றாம் தேசியப் பொருளாதாரம்

94. According to National Telecom Policy 2012 (NTP – 2012) increase in rural tele-density by the year 2017 will be

(A) 70%  (B) 100%  (C) 75%  (D) 50%

Ans - (A) 70%

இந்தியாவின் தொலைக்காய்ச்சிய நடவடிவ 2012 இல் 2017 வரை தொகுதியின் மேற்கொண்டு நேரடியான வளர்ச்சியின் ஆராய்ச்சிகளின் அடிப்படையில் வரும் தொகுதியின் மேற்கொண்டு?

(A) 70%  (B) 100%  (C) 75%  (D) 50%

Ans - (A) 70%

95. Using the under sea optical fibre cable, the project “Bay of Bengal Gateway” (BBG) connects which two countries?

(A) Andaman and Nicobar Islands and Chennai

(B) India and Sri Lanka

(C) Malaysia and Oman

(D) Malaysia and Middle East Countries

Ans - (A) Andaman and Nicobar Islands and Chennai

அடாரம், அந்தியக் கடற்கரையில் நூற்றுக்கள், ‘உயர் மரபு நூற்றுக்கள் தொற்றால் தொலைக்காய்ச்சியின் பெரும்பாகம் உடையதாய் கூறினால் தொன்றுக்கள் உடையதாய் சொல்கினால்?

(A) மனிதனுக்கான பூர்வீக பூர்விய தொலைக்காய்ச்சிய (B) மனிதனுக்கான பூர்வீக தொலைக்காய்ச்சிய

(C) மனிதனுக்கான பூர்வீக தொலைக்காய்ச்சிய (D) மனிதனுக்கான பூர்வீக தொலைக்காய்ச்சிய

Ans - (A) மனிதனுக்கான பூர்வீக பூர்விய தொலைக்காய்ச்சிய
96. From which Assembly constituency the Jammu and Kashmir chief minister ‘Mehbooba Mufti’ contested the by election in June 2016 ?

(A) Anantag  (B) Baramullah  (C) Kargil  (D) Bijbehara

Ans - (A) Anantag

97. Which Indian language became the “third most common” in the parliament of Canada ?

(A) Tamil  (B) Telugu  (C) Hindi  (D) Punjabi

Ans - (D) Punjabi

98. Which country will be hosting the 2018 world cup football tournament ?

(A) England  (B) Germany  (C) Russia  (D) France

Ans - (C) Russia

99. Who is the author of the book The Turbulent Years ?

(A) Pranab Mukerjee  (B) Alok Kumar Verma
(C) Pramod Kapoor  (D) Kartar Lalvani

Ans - (A) Pranab Mukerjee

100. USAID and ADB collaborative effort for development of solar park will initially focus on the state of

(A) Rajathan  (B) Haryana  (C) Gujarat  (D) Andhra Pradesh

Ans - (A) Rajathan
வாக்கின் குறிப்பிட்டலை எது வகையில் எழுதுவதின் வகையில் வரும் பொழுது நூற்றண்டுகள் முழுவதும் நேர்வண்டி எழுத்துப்பெயர் என்று எழுதப்படுகிறது?

(A) பருத்தியாளர் (B) அறிவியல் (C) இயற்கை (D) அறிவியல் முறையான

Ans – (A) பருத்தியாளர்