

1. P can complete a piece of work in 60 days. P works at it for 15 days and Q completes the remaining work in 30 days. They will both together will complete the work in how many days?
(a) 24 days (b) 25 days
(c) 30 days (d) 32 days
2. The product of LCM and HCF of two numbers is 24. If difference between two numbers is 18, the largest number is
(a) 3 (b) 4 (c) 6 (d) 8
3. In an examination, a student scored 30% marks and failed by 12 marks. In the same examination, an another student scored 40% marks and get 18 marks more than minimum passing marks. Minimum passing marks are
(a) 102 (b) 120 (c) 132 (d) 150
4. In three numbers, first number is double to second number and second number is triple to third number. If their average is 100, the largest number is
(a) 120 (b) 150 (c) 180 (d) 300
5. A business man exceeded the printed price (MRP) by 40% than the expenditure cost and gave 25% discount on MRP. The total profit availed by him is
(a) 4% (b) 5%
(c) 10% (d) 15%
6. A radio is sold in ₹990 at 10% profit. If the radio will be sold in ₹890, the actual profit/loss is
(a) loss of ₹10
(b) profit of ₹10
(c) loss of ₹90
(d) profit of ₹90
7. If $20\% \text{ of } (P+Q) = 50\% \text{ of } (P-Q)$, then $P:Q$ is
(a) 7:8 (b) 7:3
(c) 7:5 (d) 5:7
8. The average numbers obtained by all students in whole class is 68. The average numbers obtained by girls in the same class is 80 and that by boys is 60. Find the percentage of boys in that class.
(a) 40 (b) 60 (c) 65 (d) 70
9. In 729 L mixture of water and milk, the ratio of milk and water is 7:2. In order to get 7:3 ratio of milk and water, we have to add of water.
(a) 81 L (b) 71 L (c) 56 L (d) 50 L
10. The average weights of A , B and C is 45 kg. If the average weights of A and B is 40 kg and B and C is 43 kg, then the weight of B is
(a) 17 kg (b) 20 kg
(c) 26 kg (d) 31 kg
11. In the row of 12, 15 and 18, equal number of soldiers exists. In order to make the arrangement as perfect square as a whole, the minimum number of soldiers required is
(a) 189 (b) 450
(c) 900 (d) 32400
12. If 80% of grains are there in a mixture of grains and pulse. In order to make the percentage of grains of the mixture 90%, how much quantity of grains will be added into above 150 kg of mixture?
(a) 50 kg (b) 150 kg
(c) 90 kg (d) 120 kg

13. In a class, the number of girls are 20% more than that of boys. The total capacity of class is 66. If 4 more girls are admitted into the class, then the ratio of number of boys and girls will be
 (a) 1:2 (b) 3:4
 (c) 1:4 (d) 3:5
14. While going to the school, a boy walks with the speed of 3 km/h and at the time of returning to the home, he walks with 2 km/h. If he takes 5 hr in going and coming to the home, then the distance between his home and school is
 (a) 6 km (b) 5 km
 (c) 5.5 km (d) 6.5 km
15. A train of length 150 m crosses a pole in 15 s and another train coming from the opposite direction crosses the same pole in 12 s. The speed of second train is
 (a) 45 km/h (b) 48 km/h
 (c) 52 km/h (d) 54 km/h
16. A person spends 20% of his total earn on daily expenses and 15% of remaining on house rent. After these expenses, he save ₹11560. The earn of this person will be
 (a) ₹18320 (b) ₹17000
 (c) ₹16500 (d) ₹16000
17. An amount gets doubled in 10 yr. In how many years, it will get tripled with the same simple interest?
 (a) 12 (b) 15
 (c) 18 (d) 20
18. M and N complete a piece of work in 15 days and 10 days, respectively. They both together start doing the work but after 2 days N takes leave and M does the rest piece of work alone. The total number of days to complete the work is
 (a) 10 days (b) 8 days
 (c) 12 days (d) 15 days
19. If a property is sold in ₹ 45000, then one has 10% loss. In order to get 15% profit, the same property must be sold in
 (a) ₹50000 (b) ₹55000
 (c) ₹57500 (d) ₹60000
20. A boat takes 8 h to cover distance of 40 km on in downstream and the same boat takes 6 h to cover distance of 36 km on upstream. The velocity of that boat on water at rest will be
 (a) 6.5 km/h (b) 5.5 km/h
 (c) 6 km/h (d) 5 km/h

21. A mango tree is of same height as that of coconut tree. The height of banana tree is less than that of palm tree. The height of guava tree is less than that of banana tree but is higher than mango tree. The highest tree is
 (a) banana (b) palm
 (c) mango (d) guava
22. A is son of C. C and Q both are sisters. Z is mother of Q. P is son of Z. The correct statement is
 (a) P and A both are cousin brothers
 (b) P is maternal uncle of A
 (c) Q is grandmother of A
 (d) C and P both are sisters
23. Find the next group of letters for the following series.
 BGV, CIW, DKX, EMY,
 (a) FNX (b) FPZ
 (c) FOZ (d) UNO
24. If STUDENT is coded as RUTEDOS, then in the same code language RDGPKBQ will be coded as
 (a) SHERBET
 (b) SHINGLE
 (c) SHACKLE
 (d) SCHOLAR
25. If GARDEN is coded as 325764 and WATER is 92165, then in the same code language WARDEN will be coded as
 (a) 925764 (b) 295764
 (c) 952764 (d) 957264

Directions (Q. Nos. 26-29) In the following questions, choose the most appropriate option that is related to the word in the same way as given pair of words.

26. CLOSE : DNRWJ :: OPEN : ?
 (a) PRJQ (b) RPJB
 (c) PRHR (d) RZWR
27. 6 : 222 :: 7 : ?
 (a) 350 (b) 343
 (c) 336 (d) 210
28. January : November :: Sunday : ?
 (a) Tuesday
 (b) Monday
 (c) Friday
 (d) Saturday
29. DRIVE : EIDRV :: BEGUM : ?
 (a) EUBGM (b) MGBEU
 (c) BGMEU (d) UEGBM
30. A was born 5 yr before when B was born. B is 4 yr elder than C and 3 yr younger than D. If the present age of A is 17 yr, then the age of D will be
 (a) 19 yr (b) 15 yr
 (c) 12 yr (d) 8 yr

31. Kandaghat, a heritage railway station made entirely of wood and built by the British in 1903 was destroyed in the fire. In which state this Railway Station was located?
 (a) Gujarat (b) Maharashtra
 (c) Himachal Pradesh
 (d) Jammu & Kashmir
32. Who among the following is known for the famous quote "an uncontrolled pen serves but to destroy"?
 (a) Jawahar Lal Nehru
 (b) Mahatma Gandhi
 (c) Leo Tolstoy
 (d) Rabindranath Tagore
33. Who among the following rulers of Bengal had issued a coin named Zurbe Murshedabad?
 (a) Mir Jafar (b) Mir Qasim
 (c) Murshid Quli Khan
 (d) Shuja-ud-Din Muhammad Khan
34. Who among the following made a statement of end of strike after the famous RIN mutiny of 1946 at Kolkata?
 (a) Liaqat Ali Khan
 (b) Sardar Patel
 (c) Dr. Ambedkar
 (d) Mohammad Ali Jinnah
35. At which among the following places, National Flag was hoisted for the First time in India?
 (a) Lucknow (b) Nagpur
 (c) Calcutta (d) Delhi
36. At which among the following places, Jayaprakash Narayan had convened the first All India Congress Socialists Conference in 1934?
 (a) Lucknow (b) Patna
 (c) Gaya (d) Kolkata
37. "Tamso Ma Jyotirgamaya" "Lead us from Darkness to Light", this comes from which among the following Upanishadas?
 (a) Chandogya (b) Mandukya
 (c) Mukdaka (d) Brihadaranyaka
38. There is only one Rock Edict in which Asoka talks about taxation. Which among the following is that edict?
 (a) Bhabru Inscription
 (b) Nigalisagar Pillar Inscription
 (c) Rummindei Pillar Inscription
 (d) Barabar Cave Inscription
39. Dravyaguna shastra, which deals with several species of medicinal plants is a part of which among the following ?
 (a) Sushruta Samhita (b) Charak Samhita
 (c) Ayurveda (d) Ashtanga Hridaya

40. Rigveda Samhita denotes one-fourth of its hymns to
 (a) Rudra (b) Marut
 (c) Agni (d) Indra
41. The unit of resistance is
 (a) volt (b) ampere
 (c) ohm (d) coulomb
42. The inflammable substance on the tip of match stick is
 (a) antimony sulphide
 (b) manganese dioxide
 (c) sulphur
 (d) phosphorus
43. Most of water in dehydration of a substance is
 (a) sugar
 (b) sodium chloride
 (c) calcium phosphate
 (d) potassium chloride
44. In the manufacturing of transistor, the two main objects used are
 (a) boron and aluminium
 (b) silicon and germanium
 (c) indium and tungsten
 (d) niobium and columbium
45. For making non-stick kitchen utensil it is used.
 (a) Teflon
 (b) PVC
 (c) black colour
 (d) polystyrene
46. The basic element having atomic number, actinoides is
 (a) 97 to 104
 (b) 101 to 115
 (c) 89 to 103
 (d) 36 to 43
47. Which among the following was used to create sculptures in the Mathura school of art that flourished around 1st century AD?
 (a) Marble
 (b) State stone
 (c) Granite
 (d) Red sandstone
48. In ancient India, the area around which among the following modern areas was known as "Golden Chersonese"?
 (a) Kashmir, Hindukush, Afghanistan
 (b) Malaysia, Thailand, Singapore, Burma
 (c) Australia, New Zealand
 (d) Iran, Iraq and Persian Gulf
49. The ancient Indian text Panchasiddhantika deals with the 5 principles of which among the following?
 (a) Vedic Rituals (b) Philosophy
 (c) Astronomy (d) Medicine
50. Which body has framed the Constitution of Independent India ?
 (a) Drafting Committee
 (b) Constituent Assembly
 (c) Union Constitution Committee
 (d) Working Committee
51. Which among the following is the basic territorial unit of Administration in India?
 (a) Revenue Division (b) Tehsil
 (c) District (d) Village
52. Who among the following has written the book titled 'The Perils of Democracy'?
 (a) P. S. Ramamohan Rao
 (b) P. C. Alexander
 (c) Gurudas Kamat
 (d) Shankar Dayal Sharma
53. Pagladiya Dam Project is located in which state?
 (a) Arunachal Pradesh
 (b) Sikkim
 (c) Assam
 (d) West Bengal
54. Which among the following was the smallest state among the Part A, B, C & D states after India's independence?
 (a) Travancore Cochin
 (b) Delhi
 (c) Bilaspur (d) Coorg
55. Legislative Powers of the State of Jammu & Kashmir don't extend to the matters with respect to which the Parliament has power to make laws for the states under Constitution of India.
 The above provision finds its place in which among the following?
 (a) Constitution of India part VI
 (b) Constitution of India, article 370
 (c) Constitution of India, article 238
 (d) Constitution of Jammu & Kashmir
56. Who among the following determines the qualifications which shall be requisite for appointment as members of the Finance Commission in India?
 (a) President of India
 (b) Council of Ministers
 (c) Parliament by an act
 (d) Union Cabinet
57. In context with the Ashta Pradhan, that helped with the administration of the Maratha Empire of Shivaji, who among the following was in charge of General Administration?
 (a) Moro Trimbak Pingale
 (b) Ramchandra Neelkanth Mujumdar
 (c) Annaji Datto
 (d) Dattaji Trimbak Waknis
58. Which among the following dynasties gave rise to a worship of Satya Pir, a common God which was very much equivalent to Satyanarayan among Hindus?
 (a) Lodi Dynasty
 (b) Hussain Shahi Dynasty
 (c) Sayyid Dynasty
 (d) Samma Dynasty
59. Which among the following was prevalent in the Indian Society before the Muslim conquest?
 (a) Purdah System (b) Child Marriage
 (c) Sati System (d) Slavery
60. Which of the following Mughal Emperors shifted his imperial court and residence from Agra to Sikri, later renamed as Fatehpur Sikri?
 (a) Akbar (b) Jahangir
 (c) Shahjahan (d) Aurangzeb
61. In which year Akbar's reign ended?
 (a) 1600 (b) 1605 (c) 1610 (d) 1615
62. Who among the following introduced Kabuliyaat and Patta?
 (a) Babur (b) Shershah
 (c) Akbar (d) Shahjahan
63. For which of the following purpose, Alauddin Khilji created "Diwan-i-Riyasat"?
 (a) Revenue Collection
 (b) Civil Court
 (c) Tax Control (d) Market Control
64. In an atom of element having 7 atomic number, there will be
 (a) 7 neutrons
 (b) 5 electrons and 2 protons
 (c) 7 protons
 (d) 6 electrons and 7 protons
65. The sodium salt of is soap.
 (a) emil alcohol (b) picric acid
 (c) stearic acid (d) carboxylic acid
66. Which of the following elements inviolate from nitric acid ?
 (a) Copper (b) Gold
 (c) Mercury (d) Silver
67. For which of the following purposes, sodium is put in the kerosene?
 (a) To make it fresh
 (b) Since it becomes colourless in air
 (c) To protect it from vaporisation
 (d) It catches fire in air
68. In allotropes of carbon
 (a) coke is hardest and graphite is soft
 (b) diamond is hardest and coke is softest
 (c) diamond is hardest and graphite is softest
 (d) diamond is hardest and black powder is softest

69. By which mineral, radium is obtained?
 (a) Rutile (b) Haematite
 (c) Limestone (d) Pitch blende
70. Bell metal is an alloy of
 (a) nickel and copper (b) zinc and copper
 (c) brass and nickel (d) tin and copper
71. Which of the following pair is dissimilar in forming chemical properties?
 (a) Sugar and paper
 (b) Butter and paraffin wax
 (c) Chalk and marble
 (d) Coke coal and diamond
72. Which of the following Sultans is known to have laid the foundation of Agra City?
 (a) Bahlol Lodi (b) Sikandar Lodi
 (c) Ibrahim Lodi (d) Shershah Suri
73. Which of the following Mughal Emperor was known as Prince Khurram?
 (a) Jahangir (b) Aurangzeb
 (c) Shahjahan (d) Shah Alam
74. Which of the following articles of Indian Constitution is related to the organisation of Parliament?
 (a) 72 (b) 73 (c) 78 (d) 79
75. Singhe-Khababs festival is celebrated in which among the following states of India?
 (a) Jammu & Kashmir
 (b) Himachal Pradesh
 (c) Punjab
 (d) Uttarakhand
76. The Japanese art "Ikebana" is related to which among the following?
 (a) Flower Decoration (b) Wall painting
 (c) Chorus Dance (d) Sculptures
77. The Bhagat Movement is related to which among the following tribes of India?
 (a) Birhor (b) Bhil (c) Santal (d) Kol
78. The Elephanta caves have been mostly ascribed to which among the following dynasty?
 (a) Chalukyas (b) Cholas
 (c) Rasthrakutas (d) Pallavas
79. Central Institute of Indian Languages is located at
 (a) Bangalore (b) Mysore
 (c) Bhopal (d) Lucknow
80. In context with the Indian music, Abhang are the devotional songs dedicated to which among the following gods?
 (a) Jagannatha (b) Narayana
 (c) Vitthala (d) Vamana
81. The name of which of the following persons of Indian Origin is associated with the Indian Hospice at Jerusalem?
 (a) Sheikh Mohammed Munir Hasan Ansari
 (b) Saleh Wahid
 (c) Dr. Mohiaddin Syed Karimuddin
 (d) Mohan Jashanmali
82. With which of the following dance forms the name of Lata Pada is associated with?
 (a) Kuchipudi (b) Bharatnatyam
 (c) Odissi (d) Kathak
83. Major recommendation of which among the following committees led to restructure the Swarnajayati Gram Swarojgar Yojna to National Rural Livelihood Mission?
 (a) Suresh Tendulkar Committee
 (b) Radhakrishna Committee
 (c) Y S P Thorat Committee
 (d) Usha Thorat Committee
84. "Income generated from Tourism" can be placed in which among the following?
 (a) Invisible Import (b) Invisible Export
 (c) Visible Import (d) Visible Export
85. Rama's Bridge or Rama Setu is located in which among the following straits?
 (a) Bering Strait (b) Palk Strait
 (c) Cook Strait (d) Strait of Tebrau
86. From which among the following states, 1st ever post independence Socio-Economic and Caste Census 2011 began on 29 June, 2011?
 (a) Nagaland (b) Tripura
 (c) Assam (d) Manipur
87. A paper is kept under a glass full of water. Without spilling water, it would be taken. This statement is an example of
 (a) lack of friction between paper and glass
 (b) third law of Newton
 (c) inertia (d) acceleration
88. Ant sting have acid.
 (a) glutanic (b) citric
 (c) acetic (d) formic
89. If a rocket is propelled from earth to moon, then its velocity is
 (a) gravitation of moon
 (b) gravitation of earth
 (c) the centripetal force generated by the revolution of earth
 (d) atmospheric pressure
90. The magnetism in the centre of bar magnet is
 (a) minimum (b) maximum
 (c) zero
 (d) minimum or maximum
91. The property of absorption of air in open place is called
 (a) osmosis (b) deliquescence
 (c) hygroscopic (d) dehydration
92. Monazite is an ore of
 (a) titanium (b) zirconium
 (c) iron (d) thorium
93. In fire cracking green luminous is due to
 (a) sodium (b) barium
 (c) mercury (d) potassium
94. The time needed for complete digestion and absorption of food in human intestine is
 (a) 8 h (b) 12 h
 (c) 16 h (d) 18 h
95. Hybridisation is
 (a) conduction of water in soil
 (b) ploughing of soil
 (c) rotten plant product
 (d) cross pollination between two plants
96. Under which of the following INA comrades, Officers' Training School for INA officers was opened in 1943?
 (a) Lt. Col. M.Z. Kiani
 (b) Habib ur Rahman
 (c) Mohan Singh
 (d) Lt. Col J.K. Bhonsle
97. Before Mahatma Gandhi, who among the following had devised the Doctrine of Passive Resistance by leading a "No-rent Campaign" the form of non-payment of the taxes as it would breach the legal obligation and will be a direct defiance of the administrative authority?
 (a) Bal Gangadhar Tilak
 (b) Sri Arubindo
 (c) Lala Lajpat Rai
 (d) Dada Bhai Naoroji
98. At which among the following conferences, a 34 point resolution was passed by which the Indian National Army was made subordinate to the Indian Independence League?
 (a) Bangkok Conference
 (b) Tokyo Conference
 (c) Singapore Conference
 (d) Penang Conference
99. Aihole Inscription is ascribed to which of the following rulers?
 (a) Pulkeshin II (b) Rudradaman
 (c) Kharvela (d) Ashoka
100. The temple of Konark was built by Narasimh adeva I of the
 (a) Maratha Dynasty
 (b) Chola Dynasty
 (c) Ganga Dynasty
 (d) Vijaynagar Empire