

140/2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

4 3  
5 5  
4

1. A number when divided by 119 leaves 19 as remainder. If the same number is divided by 17, the remainder obtained is :
- (A) 2 (B) 7  
(C) 3 (D) 1
2. The traffic lights at three different road crossings change after every 48 seconds, 72 seconds and 108 seconds respectively. If they all change simultaneously at 6: 10: 00 hrs then they will again change simultaneously at :
- (A) 6:17:17 (B) 6:17:10  
(C) 6:17:12 (D) 6:17:22
3. A mixture contains alcohol and water in the ratio 4:3. If 5 litres of water is added to the mixture the ratio becomes 4:5. Find the quantity of alcohol in the given mixture :
- (A) 12 ltrs (B) 10 ltrs 4 3  
(C) 20 ltrs (D) 22 ltrs
4. If the volume of a sphere is divided by its surface area, the result is 30 cm. The radius of the sphere is :
- (A) 90 cm (B) 9 cm  
(C) 81 cm (D) 8 cm
5. A and B can do a piece of work in 72 days, B and C can do it in 120 days, and A and C can do it in 90 days. When A, B and C work together, how much work is finished by them in 3 days?
- (A)  $\frac{1}{40}$  (B)  $\frac{1}{30}$   
(C)  $\frac{1}{10}$  (D)  $\frac{1}{20}$
6. Gokul took a certain amount as a loan from a bank at the rate of 8% simple interest per annum and gave the same amount to Alok as a loan at the rate of 12% simple interest per annum. If at the end of 12 years, he made a profit of Rs. 480 in the deal, what was the original amount?
- (A) Rs. 2,000 (B) Rs. 1,000  $nch = \frac{4}{7}$   
(C) Rs. 3,000 (D) Rs. 4,000  $w = \frac{3}{7} + 5$

A

$$\frac{4x}{3x+5} = \frac{4}{5} \quad 3$$

$$\textcircled{B} \quad 20x = 12x + 20$$

$$8x = 20$$

$$x = \frac{20}{8}$$

$$4(3x+5)$$

[P.T.O.]

7. There are two towns A and B. Raju goes from A to B at 40 kmph and comes back to the starting point at 60 kmph. What is his average speed during the whole journey?

(A) 48 kmph

(B) 52 kmph

$$\frac{2 \times 40 \times 60}{80} = 48$$

(C) 50 kmph

(D) 46 kmph

8. A father is twice as old as his son. 20 years ago the age of the father was 12 times the age of the son. The present age of the father is :

(A) 32 yrs

(B) 34 yrs

(C) 22 yrs

(D) 44 yrs

Sol: Son =  $x - 20$

Father =  $2x - 20$

$$2(x - 20) = 12(x - 20)$$

9. If the perimeter of a rectangle and a square, each is equal to 80 cms, and difference of their areas is 100 sq. cms, sides of the rectangle are :

(A) 35 cm, 15 cm

(B) 28 cm, 12 cm

(C) 30 cm, 10 cm

(D) 26 cm, 14 cm

$$2x - 20 = 12x - 240$$

$$10x = 220$$

$$x = \frac{220}{10} = 22$$

10.  $\frac{1}{4}$  of Raju's money is equal to  $\frac{1}{6}$  of Ramu's money. If both together have Rs. 600, the difference between their amount is :

(A) Rs. 50

(B) Rs. 240

(C) Rs. 360

(D) Rs. 120

$$\frac{R}{4} = \frac{150}{6}$$

$$3 \times 600 \times \frac{1}{4} = \frac{600 \times 1}{6}$$

11. In a certain code, 'FOP' stands for 'OLD IS GOLD', POT stands for 'GOLD IS PURE' and POM stands for 'GOLD IS COSTLY'. Then how will "PURE OLD GOLD IS COSTLY" be written?

(A) FTOPM

(B) FTPOM

(C) TFPOM

(D) TFMOP

Rem =  $x$

12. PRIDE is to LION as SHOAL is to :

(A) TEACHER

(B) FISH

(C) SELF RESPECT

(D) STUDENT

13. Choose the word which best expresses the meaning of the given word - "CORPULENT" :

(A) LEAN

(B) GAUNT

(C) EMACIATED

(D) OBESE

$$\frac{120 \times 600 \times 2}{5} = 240$$

A 360

240

120

$$\frac{1}{4} = \frac{1}{6}$$

$$2:3$$

$$\frac{2}{5} \times \frac{3}{5}$$

$$\frac{2x}{3x} = \frac{120}{600 \times 3}$$

14. Choose the word which gives opposite meaning of the given word – "QUIESCENT" :

- (A) ACTIVE (B) DORMANT  
(C) WEAK (D) UNCONCERNED

15. Find the day of the week on 25 December 1995 :

- (A) Friday (B) Tuesday  
(C) Sunday (D) Monday

16. Find the missing number of the series. 1, 2, 8, 33, 148, \_\_\_\_\_, 4626.

- (A) 665 (B) 765  
(C) 760 (D) 660

17. Average of 5 consecutive odd numbers A, B, C, D & E is 45. What is the product of B & D?

- (A) 2025 (B) 1935  
(C) 2021 (D) 1981

$$\frac{n(n+1)}{2} = 45$$
$$n(n+1) = 90$$
$$n^2 + n - 90$$

18. Pointing to a lady, a man said "the son of her only brother is the brother of my wife". How is the lady related to that man?

- (A) Sister of father in law (B) Mothers' sister  
(C) Grandmother (D) Mother in law

9, 11, 13, 15, 17

$$\frac{15}{11}$$
$$\frac{15}{15}$$
$$\frac{15}{165}$$

19. Turn the ODD MAN out from the following: 253, 136, 324, 514, 460, 244

- (A) 136 (B) 253  
(C) 324 (D) 514

20. Raman is sitting to the immediate left of Hari but not next to Kamal. Mahesh is sitting to the right of Kamal. If the four friends are sitting in a circle, who is sitting to the immediate right of Hari?

- (A) Mahesh (B) Kamal  
(C) Raman (D) Cannot be determined

brother (his)  
↓  
son (brother) with

A

Raman

Hari  
5

Kamal Mahesh

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21. In which states of matter diffusion is greater?  
(A) Solid (B) Liquid  
(C) Gas (D) Plasma
22. The metal used for making filament in an incandescent lamp :  
(A) Tungsten (B) Tin  
(C) Zinc (D) Copper
23. Select the ore of Aluminium given below :  
(A) Magnetite (B) Bauxite  
(C) Cuprite (D) Hematite
24. Light rays spread everywhere due to the irregular and repeated reflection known as :  
(A) Scattering (B) Dispersion  
(C) Spectrum (D) Refraction
25. Ethanol mixed with methanol as the poisonous substance is called :  
(A) Wash (B) Rectified spirit  
(C) Absolute alcohol (D) Methylated spirit
26. The change of frequency experienced by the receiver either because of the relative motion of the source or receiver or both :  
(A) Joules law (B) Ohm's law  
(C) Doppler effect (D) Fleming's left hand rule
27. Glucose test is conducted by using the solution :  
(A) Benedict solution (B) Barium chloride solution  
(C) Silver nitrate solution (D) Ferrous sulphate solution
28. In the armature and the field magnet of a generator; the stationary part is the :  
(A) Rotor (B) Stator  
(C) Power (D) Excitor
29. Isomerism with a difference in the position of the functional group are known as :  
(A) Functional isomerism (B) Chain isomerism  
(C) Metamerism (D) Position isomerism
30. Microfarad is the commonly used unit of :  
(A) Resistance (B) Inductance  
(C) Capacitance (D) Diodes

31. In which part of Himalayas do we find the Karewa formation?  
 (A) North Eastern Himalayas (B) Kashmir Himalayas  
 (C) Eastern Himalayas (D) Himachal-Utharakhand Himalayas
32. Simlipal Biosphere reserve situated in :  
 (A) Bihar (B) Himachal Pradesh  
 (C) Orissa (D) Punjab
33. On which of the following hill range is the 'Dodabeta' peak situated?  
 (A) Nilgiri hills (B) Cardamom hills  
 (C) Anamalai hills (D) Nallamala hills
34. 'Regur Soil' is another name for the :  
 (A) Saline soil (B) Arid soil  
 (C) Black soil (D) Laterite soil
35. In which year National Planning Committee was setup in India?  
 (A) 1938 (B) 1950  
 (C) 1948 (D) 1949
36. The Delhi Durbar was organised by :  
 (A) Lord Elgin (B) Lord Curzon  
 (C) Lord Rippon (D) Lord Lytton
37. All India Trade Union Congress was formed in 1920 at :  
 (A) Madras (B) Mumbai  
 (C) Poona (D) Delhi
38. Indian Association was founded in :  
 (A) 1876 (B) 1868  
 (C) 1881 (D) 1872
39. Who was the founder of Ahmadia movement?  
 (A) Sir Syed Ahmed Khan (B) Moulana Hussain Ahmad  
 (C) Mirza Ghulam Ahmad (D) Moulana Riza Khan
40. Indian Council Act was passed in :  
 (A) 1935 (B) 1919  
 (C) 1921 (D) 1909

41. On the hundredth day of the Paliyam Satyagraha a freedom fighter met with tragic death in a police lathicharge. What was his name?
- (A) A.G. Velayudhan (B) Moyyarth Sankaran  
(C) K.V. Kunhambu (D) K. Krishnan
42. In which year, the newspaper Sujananandini was started?
- (A) 1886 (B) 1891  
(C) 1897 (D) 1912
43. Who was the Pioneer among the social revolutionaries of Kerala?
- (A) Swami Vagbhatananda (B) Ayyankali  
(C) Vaikunda Swami (D) Brahmananda Sivayogi
44. The author of Mokshapradipam was :
- (A) Brahmananda Sivayogi (B) Sree Narayana Guru  
(C) E.V. Ramaswami Naikkar (D) Kumaranasan
45. Vaikunda Swami was also known as :
- (A) Ananda Swami (B) Goudapada Swami  
(C) Muthukutti Swami (D) Padma Pada Swami
46. Chattampi Swamikal attained Samadhi at :
- (A) Panmana (B) Kannammoola  
(C) Theppil (D) Paravur
47. The newspaper Sujananandini was started by Kesavan Asan from :
- (A) Chavara (B) Mayyanad  
(C) Kozhikode (D) Paravur
48. The famous pilgrim centre of Vaikam is situated on the banks of :
- (A) Ashtamudi Lake (B) Vembanad Lake  
(C) Bekal Lake (D) Kumbala Lake
49. The length of river Chaliyar is :
- (A) 101 miles (B) 98 miles  
(C) 105 miles (D) 110 miles

50. The height of Agastyakutam, the southern most peak in western ghats :

- (A) 8,841 ft (B) 8,461 ft  
(C) 8,621 ft (D) 6,132 ft

51. Name of Japanese Emperor who paid an official visit to India recently :

- (A) Atsushi (B) Akihito  
(C) Hachiro (D) Akio

52. Who is the Odakkuzhal award winner 2013?

- (A) Sara Joseph (B) P. Surendran  
(C) K.R. Meera (D) G. Madhusoodanan

53. Who had won gold medal in the World Athletic Finals 2005?

- (A) Graze Apsha (B) Irina Simagina  
(C) Thathyana Kottova (D) Anju Bobi George

54. 11<sup>th</sup> Indo ASEAN summit held at :

- (A) Brune (B) Delhi  
(C) Bandung (D) Colombo

55. Miss. Universe 2013 winner :

- (A) Olivia Culpo (B) Gabriela Isler  
(C) Leila Lopes (D) Riyo Mori

56. Mars orbiter mission launched earth's orbit on :

- (A) 10<sup>th</sup> November 2013 (B) 7<sup>th</sup> November 2013  
(C) 5<sup>th</sup> November 2013 (D) 4<sup>th</sup> November 2013

57. Who is the first sports person in India had got Bharatharathna, the highest civilian award?

- (A) Sachin Tendulkar (B) Dhyan Chand  
(C) Milkhasing (D) Bhimsen Guru Raj Joshi

58. Who has become the Brand Ambassador of UNICEF for South Asia?

- (A) Sharmila Tagore (B) Amir Khan  
(C) Sachin Tendulkar (D) Priyanka Chopra

59. Name of the World Chess Champion of 2013 :

- (A) Viswanath Anand (B) Garri Casperov  
(C) Boris Vasilievich (D) Magnus Karlsen

60. 1<sup>st</sup> Woman Managing Director of LIC :

- (A) Usha Sangwan (B) Sunitha Sarma  
(C) Vijayalakshmi (D) S.B. Mainak

61. Right to Education is included in which Article of the Indian Constitution?

- (A) Article 21 (B) Article 21 A  
(C) Article 29 (D) Article 30

62. Which Article provides the President of India to grant pardons?

- (A) Article 68 (B) Article 69  
(C) Article 71 (D) Article 72

63. Concurrent list in the Indian Constitution is taken from the Constitution of :

- (A) Australia (B) Canada  
(C) Britain (D) USA

64. 80<sup>th</sup> Amendment of the Indian Constitution provides for :

- (A) alternative scheme for sharing taxes between the Union and the States  
(B) special provisions for the state of Assam  
(C) insertion of a new Article 21 A  
(D) special provision for SC/ST in the state of Arunachal Pradesh

65. Right to Property is now a :

- (A) Legal right (B) Civil right  
(C) Constitutional right (D) Economic right

66. The UPSC submits its annual reports to :

- (A) Cabinet Secretariat (B) Parliament  
(C) The President (D) Home Minister

67. Who commended in the Constitutional Assembly that the Directive Principles of State Policy is "like a cheque payable at the convenience of bank"?

- (A) Ambedkar (B) K.T. Shah  
(C) A.M. Kusrum (D) Alladi Krishna Swamy Iyyer



68. The tennure of Estimate Committee of Lok Sabha is :

- (A) 6 months (B) 1 year  
(C) 2 years (D) 3 years

69. The theory of basic structure of the Constitution was propounded by the Supreme Court in :

- (A) Minerva Mills case (B) S.R. Bommai case  
(C) Golaknath case (D) Keshavananda Bharati case

70. The minimum/maximum strength of a Legislative Assembly of a state is :

- (A) 40/500 (B) 50/500  
(C) 60/500 (D) 70/500

71. Neither John or Mary \_\_\_\_\_ applied for the post.

- (A) have (B) has  
(C) have been (D) has been

72. You can meet me at a \_\_\_\_\_ time.

- (A) latter (B) last  
(C) later (D) latest

73. Prevention is \_\_\_\_\_ than cure.

- (A) better (B) best  
(C) good (D) less

74. One is responsible for \_\_\_\_\_ actions.

- (A) my (B) her  
(C) one's (D) his

75. The plural of dynamo is :

- (A) dynamo (B) dynamoes  
(C) dynamos (D) dynamose

76. Sheela is \_\_\_\_\_ tallest girl in the class.

- (A) a (B) an  
(C) the (D) none of these

77. Which of the following pairs is wrong?  
(A) lion-lioness (B) horse-mare  
(C) traitor-traitress (D) duke-dukess
78. He was absent \_\_\_\_\_ the class.  
(A) to (B) with  
(C) from (D) on
79. Which of the following is correct?  
(A) This is good furniture (B) These are good furnitures  
(C) This is a good furniture (D) These are good furniture
80. A person who knows many languages is a :  
(A) prodigy (B) polyglot  
(C) paragon (D) polyandry
81. \_\_\_\_\_ is a local language-enabled workflow based transaction level Management Information System in place to facilitate e-governance of Indira Awaas Yojana.  
(A) Aya Soft (B) Aaas Soft  
(C) IYA Soft (D) Awaas Soft
82. The basic objective of the \_\_\_\_\_ is to improve the quality of life of people and overall habitat in the rural areas.  
(A) SAY (B) IAY  
(C) DAY (D) HAY
83. \_\_\_\_\_ is the first scheme of its kind meant exclusively for slum dwellers with a Government of India subsidy of 50 percent.  
(A) RLEGP (B) DPADP  
(C) VAMBAY (D) NRHM
84. \_\_\_\_\_ is the focal point for the delivery of services at community levels to children below six years of age, pregnant women, nursing mothers and adolescent girls.  
(A) Primary Health Centre (B) Continuing Education Centre  
(C) Anganwadi (D) Child Development Centre

85. "To awaken the people, it is the women who should be awakened. Once she is on the move the family moves, the nation moves".
- (A) Mahatma Gandhi (B) Jawaharlal Nehru  
(C) Narendra Modi (D) Sarojini Naidu
86. \_\_\_\_\_ is an important scheme to provide food grains to poorest of the poor families.
- (A) AAY (B) IAY  
(C) YAAI (D) ICDS
87. The first ICDS Project in Kerala was set up in 1975 at \_\_\_\_\_ block.
- (A) Sasthamcotta (B) Vengara  
(C) Pothencode (D) Vallikkunnu
88. Kudumbashree was launched formally by Government of Kerala on :
- (A) 17<sup>th</sup> May 1998 (B) 2<sup>nd</sup> October 1998  
(C) 15<sup>th</sup> August 1998 (D) 17<sup>th</sup> May 1999
89. \_\_\_\_\_ centrally sponsored scheme provide connectivity to unconnected habitations.
- (A) SGSY (B) PMGSY  
(C) TRYSEM (D) SARAS
90. \_\_\_\_\_ was launched on 2<sup>nd</sup> October 1993 with the objective of empowering the rural women through building thrift habit, self-reliance and confidence.
- (A) RLEGP (B) IAY  
(C) SGSY (D) MSY
91. Ice Cream Sandwich and Jelly bean are the latest versions of which Operating System?
- (A) Ubuntu (B) Android  
(C) Apple (D) Unix
92. E-mail that appears to have been originated from one source when it was actually sent from another source is referred to as :
- (A) E-mail Spoofing (B) E-mail Bombing  
(C) E-mail Spamming (D) None of the above
93. When did Information Technology Act come into force in India?
- (A) Oct 17<sup>th</sup> 2000 (B) Oct 17<sup>th</sup> 2001  
(C) June 4<sup>th</sup> 2000 (D) June 4<sup>th</sup> 2001

94. Data diddling involves :

- (A) Destroying data before input to the computer
- (B) Unauthorized copying of data
- (C) Changing data into information
- (D) Changing data prior or during input to the computer

95. Which hardware device is used to interconnect different types of networks with different protocols?

- (A) Bridge
- (B) Router
- (C) Gateway
- (D) Repeater

96. A collection of four bits is called :

- (A) Nibble
- (B) Byte
- (C) Word
- (D) Double Word

97. The Walkie Talkie is an example of which mode of communication?

- (A) Simplex
- (B) Half Duplex
- (C) Duplex
- (D) None of the above

98. A device that combines data from multiple computers and load them on a common communication channel is :

- (A) Modem
- (B) Repeater
- (C) Multiplexer
- (D) Encoder

99. In the e-mail address admin@vms.org, "vms" is the :

- (A) Host name with commercial domain
- (B) Host name with non-commercial domain
- (C) Client name with educational domain
- (D) Client name with government domain

100. \_\_\_\_\_ is the modification of software to remove or disable features which are undesirable by a person.

- (A) Software hacking
- (B) Software licensing
- (C) Software piracy
- (D) Software cracking