

023/2016

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. Largest number which divides :

105, 175, 245

(A) 5

(B) 45

(C) 7

(D) 35

2. If  $x - y = 2$  and  $xy = 15$  then  $x^3 - y^3$  is :

(A) 125

(B) 98

(C) 82

(D) 220

3. What is the sum of two consecutive even numbers, the difference of whose squares is 100?

(A) 50

(B) 46

(C) 40

(D) 60

4. What is the perimeter of a circular plot which occupies an area of 616 square meter?

(A) 80 meter

(B) 88 meter

(C) 72 meter

(D) 76 meter

5. Out of 100 students 40 passed in Physics and 30 passed in Chemistry. If 18 passed in both the subject, then what is the number of students failed in both subject?

(A) 48

(B) 52

(C) 82

(D) 28

6. If  $2 \times 7 = 12$ ,  $3 \times 6 = 15$ ,  $3 \times 7 = 18$  then  $6 \times 5 =$  :

(A) 20

(B) 21

(C) 24

(D) 30

7. Total number of days from 5<sup>th</sup> January 2015 to 20<sup>th</sup> March 2015 :

(A) 73

(B) 74

(C) 75

(D) 72

8. Choose the odd one out :

(A) UWY

(B) BEH

(C) KNQ

(D) SVY

9. In a certain code language

639 means 'earth is green'

32 means 'green colour'

265 means 'colour is beauty'

Which digit in that language means 'beauty'?

(A) 2

(B) 3

(C) 6

(D) 5

10. Rejith scored more than Reji. Abu score as much as Appu. Rohan scored less than Sandeep. Reji scored more than Abu. Sandeep scored less than Appu who scored the lowest?

(A) Rohan

(B) Rejith

(C) Reji

(D) Sandeep

11. Out of the five numbers average of first four numbers is 15 and the average of last four numbers is 12. Also last number is 18. What is the first number?

(A) 48

(B) 27

(C) 33

(D) 30

12. An umbrella marked ₹ 300 is sold for ₹ 270. What is the rate of discount?

(A) 9%

(B) 10%

(C) 8%

(D) 15%

13. A can do a certain work in 4 hours. A and B together do the same work in 2 hours. B and C together do it in 3 hours. How long will C alone take to do it?

(A) 12 hours

(B) 8 hours

(C) 16 hours

(D) 10 hours

14. 75% of  $A = 25%$  of  $B$  and  $B = x%$  of  $A$ . The value of  $x$  is :

(A) 180

(B) 75

(C) 150

(D) 300

15. To fill a tank, 10 buckets of water is required. How many buckets of water will be required to fill the same tank if the capacity of bucket is reduced to  $\frac{2}{3}$  of it present?
- (A) 30 (B) 15  
(C) 12 (D) 20
16. If + means  $\div$ , - means  $\times$ ,  $\times$  means +,  $\div$  means -, find the value of  $30 \div 20 + 2 \times 5 - 7$  :
- (A) 40 (B) 70  
(C) 55 (D) 53
17. In a row of boys, Anil is 11<sup>th</sup> from the left and Akhil is 11<sup>th</sup> from the right. Interchanging their places, Akhil becomes 15<sup>th</sup> from the right. How many boys are there in the row?
- (A) 22 (B) 26  
(C) 25 (D) 18
18. How many 6s are immediately followed by 4 but not immediately preceded by an even number?
- 3 6 4 1 2 6 3 4 6 2 1 6 4 6 3 7 6 4
- (A) 2 (B) 6  
(C) 4 (D) 3
19.  $\sqrt{2^n} = 16$  what is the value of  $n$ ?
- (A) 4 (B) 8  
(C) 16 (D) 6
20. A man walks 15 meters towards east and turns to right and walk 10 meters, then he turns to right and walk 9 meters. Again he turns to right and walk 2 meters and finally turns to left and walk 6 meters. Now to which direction is the man facing :
- (A) East (B) North  
(C) West (D) South
21. Which hormone increases the rates of almost all chemical reactions in all cells of the body?
- (A) Cortisol (B) Thyroxine  
(C) Oxytocin (D) Adrenaline
22. Which among the following is a reason for Astigmatism?
- (A) Inflammation of conjunctiva  
(B) High blood pressure within the eye  
(C) Defect in the curvature of cornea or lens  
(D) Loss of transparency of lens

23. Deoxygenation of Hb takes place in :  
(A) Tissues (B) RBC  
(C) Alveoli (D) Plasma
24. Pepsinogen is converted to pepsin by the action of :  
(A) Lipase (B) Salivary amylase  
(C) HCl of stomach (D) Peptidase
25. Withdrawal of protoplasm from the cell wall due to exosmosis is said to be :  
(A) Cyclosis (B) Plasmolysis  
(C) Diffusion (D) Pinocytosis
26. When a body having mass ' $M$ ' is placed at the centre of earth, its weight will be :  
(A)  $M$  (B) Zero  
(C)  $2M$  (D)  $\frac{M}{2}$
27. The velocity of sound is maximum in :  
(A) solid (B) liquid  
(C) gas (D) vacuum
28. The instrument used to measure the intensity of electric current is :  
(A) Sonometer (B) Voltmeter  
(C) Galvanometer (D) Ammeter
29. The unit of electric charge :  
(A) Ampere (B) Joule  
(C) Coulomb (D) Tesla
30. Which metal is used to make electromagnet?  
(A) Soft iron (B) Stainless steel  
(C) Cobalt (D) Copper
31. 'Pomology' is the study of :  
(A) Fruits (B) Animals  
(C) Veins (D) Birds
32. 'Dendrology' is associated with :  
(A) Animals (B) Trees  
(C) Man (D) Fish

33. 'Entomology' deals with :
- (A) Animals (B) Human beings  
(C) Insects (D) Birds
34. The man called as "Apostle of free trade" is :
- (A) Karl Marx (B) Churchil  
(C) Gandhiji (D) Richard Cobden
35. The famous 'Jungle Book' was written by :
- (A) Rudyard Kipling (B) Tarsan  
(C) William Porter (D) John Milton
36. The author of "Experiments with Untruth" is :
- (A) M.K. Gandhi (B) Michael Anderson  
(C) Indira Gandhi (D) Milton
37. World Boxing Champion of 2015 is :
- (A) Manny Pacquiao (B) Muhammed Ali  
(C) May Weather (D) Lyndon John
38. The Winner of Koppa-America Football Competition, 2015 is :
- (A) Brazil (B) Argentina  
(C) France (D) Chile
39. The Indian who shared Nobel Peace Prize, 2014 is :
- (A) Kailesh Satyarthi (B) Malala  
(C) Sachin Tendulkar (D) Dhoni
40. Charles Correa has distinguished himself as :
- (A) Musician (B) Architect  
(C) Painter (D) Singer
41. The man responsible for the beginning of Aligarh Muslim University was :
- (A) Indira Gandhi (B) Jawaharlal Nehru  
(C) Sir Syed Ahmed Khan (D) Jinnah

42. Father of Nuclear Research in India :
- (A) Kasthuri Rangan (B) Aryabhata  
(C) C.V. Raman (D) Homi. J. Bhaba
43. The Prime Minister of India at the time of interim government :
- (A) Jawaharlal Nehru (B) Gandhiji  
(C) Patel (D) Mount batten
44. Who called Patel as 'Sardar Vallabhai Patel' for the first time?
- (A) Sarojini Naidu (B) Jawaharlal Nehru  
(C) Tagore (D) Gandhiji
45. The first involvement of Gandhiji in all India politics was through :
- (A) Dandi March (B) Chambaran Satyagraha  
(C) Rowlat Satyagraha (D) Non-Cooperation Movement
46. The boundary between India and Pakistan was demarcated by :
- (A) Jinnah (B) Nehru  
(C) Mount batten (D) Sir Cyril Radcliffe
47. The first Muslim President of Indian National Congress was :
- (A) Rahimullah Sayani (B) Jinnah  
(C) Azad (D) Badurudin Tabji
48. The man called as "Lion of Punjab" was :
- (A) Satnam Singh (B) Lala Lajpat Rai  
(C) Tejender Singh (D) Bhagat Singh
49. The place known as "Granary of South India" is :
- (A) Kottayam (B) Trichy  
(C) Thanjavur (D) Kanyakumari
50. The silicon valley of India is :
- (A) Kakkanad (B) Hyderabad  
(C) Trivandrum (D) Bengaluru

51. The one and only fresh water lake in Kerala is :
- (A) Sastham Kotta (B) Ashtamudi  
(C) Vembanatt (D) Puralimala
52. The highest mountain peak in Kerala is :
- (A) Sabarimala (B) Anamalai  
(C) Ezhimala (D) Malayattoor mala
53. The first Arab writer to call Kerala as 'Malabar' was :
- (A) Ibn Batuta (B) Sulaiman  
(C) Albaruni (D) Nicolo conti
54. The earliest epigraphical record on 'Kollam Era' is :
- (A) Vazhappilli inscription (B) Teresappilli copper plate  
(C) Chaliyam plate (D) Mampalli plate
55. The famous Electricity Agitation happened in 1936 at :
- (A) Trichur (B) Kasargod  
(C) Travancore (D) Kollam
56. The movement which demanded legal marriage of all junior Nambootiri male in Kerala was :
- (A) Channar Movement (B) Yogakshama Movement  
(C) Khilafat Movement (D) Vaikam Satyagraha
57. The captain of the volunteer group of Guruvayoor Satyagraha was :
- (A) Gandhiji (B) Narayana Guru  
(C) A.K. Gopalan (D) Chattambi Swamikal
58. 'Sadhujana Paripalana Yogam' was started by :
- (A) Chattambi Swamikal (B) V.T. Bhattatirippad  
(C) Sree Narayana Guru (D) Ayyankali
59. The founder of N.S.S. (Nair Service Society) Movement in Kerala was :
- (A) Sree Narayana Guru (B) Mannath Padmanabhan  
(C) Vagbhatananda (D) Ayyankali

60. A journal named 'Deepika' was started by :
- (A) Vakkom Maulavi (B) Fr. Heras  
(C) Chattambi Swamikal (D) Mother Teresa
61. The constituent assembly of India started functioning on :
- (A) November 9, 1946 (B) November 26, 1946  
(C) December 9, 1946 (D) December 26, 1946
62. Which among the following articles provide a negative right?
- (A) Article 17 (B) Article 19  
(C) Article 30 (D) Article 32
63. The ministry of human resource development was created by :
- (A) Indira Gandhi (B) Rajeev Gandhi  
(C) V.P. Singh (D) Narasimha Rao
64. The normal term of office of the Comptroller and Auditor general of India is :
- (A) 4 years (B) 5 years  
(C) 6 years (D) 7 years
65. Fundamental duties were incorporated by the following amendment :
- (A) 24<sup>th</sup> (B) 34<sup>th</sup>  
(C) 42<sup>nd</sup> (D) 43<sup>rd</sup>
66. Article 263 provides for :
- (A) Financial emergency (B) Interstate council  
(C) National economic council (D) All India services
67. *The constitution of India : Cornerstone of a Nation* was written by :
- (A) James Anderson (B) Granville Austin  
(C) William Douglas (D) Michael Brechar
68. Article 86 empowers the president to :
- (A) Issue ordinances (B) Issue directives to State governments  
(C) Administer Union Territories (D) Send messages to Parliament



69. Human Rights Act was passed in the year :  
(A) 1989 (B) 1991  
(C) 1993 (D) 1999
70. Charges of corruption in Local governments are investigated by :  
(A) Lokpal (B) Lokayukta  
(C) Special tribunals (D) Ombudsman
71. Change the voice :  
We keep the books there.  
(A) The books are kept there (B) The books were kept there  
(C) The books are being kept there (D) The books were being kept there
72. Seventy Kilos \_\_\_\_\_ not what they want.  
(A) has (B) have  
(C) is (D) are
73. Dev is \_\_\_\_\_ than Rani.  
(A) old (B) more old  
(C) elder (D) older
74. Choose the correct option to get the meaning  
"We still live here"  
(A) We have been living here for the past ten years  
(B) We are living here for the past ten years  
(C) We had lived here for the past ten years  
(D) We were living here for the past ten years
75. He said that he \_\_\_\_\_ a poem.  
(A) has written (B) was writing  
(C) will write (D) is writing
76. Jane reached there \_\_\_\_\_ 8 O' clock.  
(A) on (B) for  
(C) in (D) at
77. Give the one word substitute for the phrase, "to join the majority".  
(A) agree (B) climb  
(C) die (D) support