1. The verses called Sakhis and Pads have been composed by
   (A) Kabir
   (B) Surdas
   (C) Tulsidas
   (D) None of the above

2. If the depth of the foundation is greater than its __________ it is termed as deep foundation.
   (A) Height
   (B) Width
   (C) Length
   (D) None of the above

3. The object of _______ is to safeguard the exposed surfaces against penetration of rain water and other atmospheric agencies.
   (A) Blasting
   (B) Rendering
   (C) Watering
   (D) Concreting

4. Gurugram district of Haryana derived its name from the name of
   (A) Yogananda
   (B) Gurumayi
   (C) Muktananda
   (D) Dronacharya

5. India and Pakistan signed the Shimla Agreement in
   (A) 1971
   (B) 1965
   (C) 1948
   (D) 1972

6. _______ utility is used to compress large files.
   (A) Disk cleaner
   (B) Compression
   (C) Backup
   (D) None of the above

7. Which among the following sports is a major event in Basant Panchami celebration in Haryana?
   (A) Snake worship
   (B) Bulcart race
   (C) Kite flying
   (D) Group dance

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8. All the faces of moulds coming in contact with concrete properly coat with ____ so that it may not absorb water from concrete and it is difficult while removing bafflers.
(A) Water (B) Acids
(C) Crude oil (D) Jute bag

9. Eight friends P, M, R, T, Q, U, V and W are sitting in two opposite rows, facing each other. Each row has 4 persons. P is between U and V and is facing North. W is opposite to Q who is to the immediate left of M. R is between T and M. W is to immediate right of V. Who is sitting opposite of R?
(A) U (B) Q
(C) V (D) P

10. Which of the following is not true about Panchkula district of Haryana?
(A) Pinjore is part of Panchkula
(B) The district is devoid of any perennial river
(C) The district lies in the region were there have been no earthquakes
(D) It was formed as the 17th district of Haryana

11. There are _____ systems adopted in plumbing of drainage work in a building.
(A) One (B) Two
(C) Three (D) Four

12. Mix proportion of M-15 grade concrete is ____ of cement, fine aggregate and course aggregate respectively.
(A) 1 : 3 : 6 (B) 1 : 1 : 2
(C) 1 : 2 : 4 (D) 1 : 4 : 8

13. If 1*548 is divisible by 3, then which of the following digits can replace *?
(A) 0 (B) 2
(C) 7 (D) 8

14. The number of 100 digits in the year 2020 is
(A) 3 (B) 2
(C) 1 (D) 0

15. The sum of the first 100 natural numbers is
(A) 5050 (B) 5000
(C) 100 (D) 50
28. Which Law simply state that it does not matter which way two variables are AND’d or OR’d together?
   (A) Commutative laws
   (B) Associative laws
   (C) Distributive laws
   (D) Absorption laws

29. The term _______ is used to indicate a paste prepared by adding required quantity of water to a mixture of binding materials like cement or lime and fine aggregate like sand.
   (A) Mortar
   (B) Concrete
   (C) Surkhi
   (D) DPC

30. Which of the following two island countries located in the Indian Ocean?
   (A) Sri Lanka and Maldives
   (B) Fiji and Ireland
   (C) Cuba and Barbados
   (D) None of the above

31. _______ is considered to be strongest of all the bonds.
   (A) Header bond
   (B) English bond
   (C) Flemish bond
   (D) Stretcher bond

32. In stone masonry, formation of continuous vertical _______ should be avoided.
   (A) Joints
   (B) Course
   (C) Bond
   (D) Face

33. Which tech giant has launched a campaign named ‘Make Small Strong’?
   (A) Microsoft
   (B) Google India
   (C) Facebook
   (D) None of the above
English Language

83. In the question below, a phrase/group of words is given, below which some alternatives are given. One of these is the most appropriate word i.e. it best conveys the meaning of the phrase/group of words. Find out the most appropriate word.

Present opposing arguments or evidence. (Criticise)
(A) Rebut (B) Criticise (C) Rebuff (D) Reprimand

84. Fill in the blank with appropriate option.
His friend has run_______ his whole fortune.
(A) out (B) down (C) over (D) None of these

85. The following question consists of fragments of a sentence. The first fragment (1) and the last fragment (6) are in order. The other four fragments are jumbled up and are designated as (P), (Q), (R) and (S). Find out the correct sequence of these from the given alternatives.
(1) No part of this publication may be (P) without the written permission
reproduced, stored in or transmitted (Q) of the copyright owner, and
of any form or by any means
(6) the publisher of this book.
(A) PQRS (B) QSPR (C) RPSQ (D) SRQP

86. Read the sentence to find out whether there any error in it. The error, if any, will be in one part of the sentence. Mark the alphabet of that part with error as your answer.
You have/joined _____ with/ a view to/ (A) improve your English.
(C) (D)

87. वाक्य के सार्थक पद कुल ______ प्रकार के हैं इसका मतलब है
(A) पाँच (B) छः (C) सात (D) आठ

88. ‘आम के आम गुलियाँ के दाम’, लोकोक्तित्व का मतलब है
(A) धनवान लेकिन मूर्ख (B) सख़्त और विवाद (C) दोहरा लाभ (D) इनमें से कोई नहीं

89. ______ अपने शाब्दिक अर्थ से भिन्न किसी विशेष अर्थ को प्रकट करते हैं।
(A) विशेष (B) मुहावरे (C) असंतान (D) इनमें से कोई नहीं

90. सर्वनाम शब्द संज्ञा शब्दों से पूर्व तथा उनकी विशेषता प्रकट करते हैं, तो उन्हें ______ विशेषण कहते हैं।
(A) सर्वनामिक (B) परीमाणावलक (C) संज्ञावचक (D) इनमें से कोई नहीं
34. Find the number of terms in the series 7, 14, 21, 28, ..., 700
   (A) 100   (B) 10   (C) 150   (D) 175

35. From which Principalities of Haryana did Nawab Ahmad Ali Ghulam Khan lead the 1857 Revolt?
   (A) Hisar   (B) Bahadurgarh   (C) Farrukhnagar   (D) Panipat

36. A piece of wire of resistance $R$ is cut into five equal parts. These parts are then connected in parallel. If the equivalent resistance of this combination is $R'$, then the ratio $\frac{R}{R'}$ is
   (A) $\frac{1}{25}$   (B) $\frac{1}{5}$   (C) 5   (D) 25

37. How many wetlands are recognised under the National Wetlands Conservation Program in Haryana?
   (A) 4   (B) 2   (C) 1   (D) 3

38. Some of the commonly used softwares are antivirus, disk defragmenter, backup, compression etc.
   (A) Application   (B) System   (C) Interpreter   (D) Utility

39. Which famous monument of Burj in Haryana was built during Shahjahan’s reign?
   (A) Red fort   (B) Peacock throne   (C) Rang Mahal   (D) Rajmahal

40. Cracks in concrete may originate due to
   (A) Excess water   (B) Alkali aggregate reaction   (C) Freeze and thaw   (D) All of the above

34. दी गई श्रृंखला 7, 14, 21, 28, ..., 700 में कुल कितने पद हैं?
   (A) 100   (B) 10   (C) 150   (D) 175

35. नबाब अहमद अली गुलाम खान ने हरियाणा की किस रियासत में 1857 के विद्रोह का नेतृत्व किया था?
   (A) हिसार   (B) बहादुरगढ़   (C) फरूखनगर   (D) पानीपत

36. एक तार के तुड़ंग को जिसका प्रतिरोध $R$ है, उसे पीछे समान तुड़ंगों में कटा जाता है। इन तारों को फिर समानांतर सेट किया जाता है। यदि इस जुड़वां का सम्बन्धित प्रतिरोध $R'$ हो, तो $\frac{R}{R'}$ होगा
   (A) $\frac{1}{25}$   (B) $\frac{1}{5}$   (C) 5   (D) 25

37. हरियाणा में राजर्षि आदिपुरूष संस्कार कार्यक्रम के अंतर्गत कितने आदिपुरूषों को मान्यता दी गई है?
   (A) 4   (B) 2   (C) 1   (D) 3

38. आप में पर उपयोग किए जाने वाले कुछ सॉफ्टवेयर एंटीवायरस, डिस्क डिफ्रीग्रेटर, बैकअप, कोप्रेग्य आदि होते हैं।
   (A) धूलकंधक   (B) सिस्टम   (C) इंटरप्रीटर   (D) सूटिलिटी

39. हरियाणा में बूरिए का कौन-सा प्रमुख स्मारक शाहजहाँ के शासन काल में बनाया गया?
   (A) लाल किला   (B) मथुर सिंहस्तर   (C) समाहल   (D) राजमहल

40. कंक्रीट में दरार ______ के कारण उत्पत्ति हो सकती है?
   (A) अतिरिक्त पानी   (B) क्षार पदार्थ की प्रतिक्रिया   (C) फ्रीज और पिचलाना   (D) उपरोक्त सभी
55. Mauryan Stupa and Relics were found in which place of Haryana?
(A) Karnal (B) Shanila
(C) Fatchabad (D) None of these

56. ‘Ratnavali’ is a famous work of
(A) Harshvardhana (B) Banabhatta
(C) Nagachand (D) Kalidas

57. Which city is famously known as ‘Paris of Haryana’?
(A) Karnal (B) Panipat
(C) Ambala (D) Jhajjar

58. __________ is the SI unit of luminous intensity.
(A) K (B) cd
(C) A (D) S

59. Clear cover for slabs is _________ or diameter of bar whichever is more.
(A) 15 mm (B) 5 mm
(C) 25 mm (D) 45 mm

60. COVID – 19 is a disease caused by the
(A) Epstein-Barr virus
(B) SARS-CoV-2
(C) Coxsackie virus
(D) None of the above

61. __________ are used to throw away rain water from the top of the parapet or compound wall.
(A) Thresholds (B) Jams
(C) Copings (D) Corbels

62. Cement stakes should be raised leaving a clear distance of __________ from the walls of the room.
(A) 20 cm (B) 30 mm
(C) 40 cm (D) 30 cm

63. Which river originates from Mewat Hills near Jitgarh of Haryana?
(A) Sahibi (B) Tangri
(C) Krishnawati (D) Dohan
71. Before applying the ______ it is ensured that the surface is free from dust, dirt, loose matter, grease.
   (A) Paint   (B) Concrete  
   (C) Water   (D) None of the above

72. Collar joint is mostly used for jointing large diameter ______ pipes.
   (A) Iron   (B) PVC  
   (C) Concrete   (D) Steel

73. By ______ process, fine suspended and electrically charged colloidal particles and some bacteria are removed.
   (A) Plain sedimentation  
   (B) Screening  
   (C) Sedimentation with coagulation   
   (D) None of the above

74. Which of the following is not an effect of dampness?
   (A) Termite growth is promoted  
   (B) Plaster gets harder  
   (C) Metallic fittings may get corrode  
   (D) Electrical fittings may get damaged

75. If cement concrete topping is to be laid over RCC slab, it should be done only after ______ has fully set.
   (A) Beam concrete  
   (B) Column concrete  
   (C) Slab concrete  
   (D) None of the above

76. ______ was established by Babar in Haryana as memorial to the victory over the throne of Hindustan when he defeated Ibrahim Lodi in 1526.
   (A) Kabuli Bagh  
   (B) Red Fort  
   (C) Peacock Throne  
   (D) Shah Qalandar Mosque
41. The LCM of 3, 2.7 and 0.09 is
   (A) 2.7   (B) 0.27
   (C) 0.027 (D) 27

42. A chemical reaction between cement and ________ is responsible for setting and hardening of cement concrete.
   (A) Fine aggregate
   (B) Coarse aggregate
   (C) Water
   (D) Fly ash

43. Distribution steel is provided at the rate of ________ of the gross sectional area of the slab.
   (A) 0.15%   (B) 0.16%
   (C) 0.14%   (D) 0.13%

44. ________ is a structure designed in Chandigarh by legendary architect, Le Corbusier.
   (A) Open hand monument
   (B) Right hand monument
   (C) Left hand monument
   (D) Close hand monument

45. The ________ operator takes a number of variables as its input and produces one output whose value is 1 if and only if all of the inputs are 1.
   (A) OR   (B) AND
   (C) NOT   (D) XOR

46. ________ is the organic matter deposited at the bottom of the sedimentation tank during the treatment of the sewage.
   (A) Refuse   (B) Sludge
   (C) Garbage   (D) None of these

47. The purpose of ________ is to inspect, clean and for other maintenance operations in connection with sewers.
   (A) Soak pit   (B) Manholes
   (C) Septic tank   (D) Culvert
20. What should be come in the place of question mark?
   A B A B C A B C D A B C D?
   (A) A  (B) C  (C) E  (D) None of these

21. The architect of Unification of Germany was
   (A) Otto von Bismarck
   (B) Garibaldi
   (C) Count Cavour
   (D) Mazzini

22. In Haryana, an artwork made from cow dung and clay
   (A) Mehendi
   (B) Rangoli
   (C) Sanjh
   (D) All of the above

23. The Rio de-Janeiro Earth Summit was held in
   (A) 1992  (B) 1972  (C) 1982  (D) 2000

24. Which of the following Principalities in Haryana supported the British during the 1857 Revolt?
   (A) Panipat  (B) Bahadurgarh  (C) Dujana  (D) Jind

25. What is the full form of ISP?
   (A) Internet Service Provider
   (B) Internet Station Provider
   (C) Internet Service Protocol
   (D) Intranet Service Provider

26. Yamunanagar district of Haryana was earlier known as
   (A) Hamirpur  (B) Ferozpur  (C) Abdullahpur  (D) Faridpur

27. The depression or bend provided in a drainage system which is always full of water and prevents the entry of foul gases into the atmosphere is termed as a
   (A) Trap  (B) Sink  (C) Gully  (D) Flush
48. In a certain code 'it is rush hour traffic' is written as 'sa le do mi ru', 'go to school' is written as 'be no pa', one hour to go' is written as 'mi fi pa be' 'rush to one' is written as 'fi be sa' and 'traffic is fine' is written as 'ga ru do'. What does 'sa' stand for?
(A) rush
(B) traffic
(C) it
(D) is

49. Deepika Kumari associated with which sports?
(A) Badminton
(B) Swimming
(C) Archery
(D) None of the above

50. Who among the following is known as the Jahazi Sahib in Haryana?
(A) Robert Clive
(B) Pierre Cuillier-Peron
(C) George Thomas
(D) None of the above

51. In case of basement floor or ground floor, the ______ is prepared in such a way that a strong, unsinkable surface is developed.
(A) Base
(B) Cover
(C) Filling
(D) None of these

52. ______ is a method comprises in forming an impervious layer of rich cement mortar.
(A) Grading
(B) Proofing
(C) Gunting
(D) Shoring

53. The peace treaty signed after the First World War
(A) Versailles
(B) Paris
(C) Vienna
(D) Berlin

54. ______ metal is used as a coolant in fast breeder nuclear reactors.
(A) Lithium
(B) Liquid sodium
(C) Mercury
(D) Liquid potassium

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71. ______ metal is used as a coolant in fast breeder nuclear reactors.
64. In terms of area, Haryana is the ________ State of India.
   (A) 23rd  (B) 25th  (C) 28th  (D) None of these

65. After the death of Harshavardhana, Haryana went to which dynasty?
   (A) Gurjar Pratihara  (B) Gupta  (C) Nanda  (D) Pala

66. Yamuna river separates Karnal of Haryana from
   (A) Chandigarh  (B) Uttar Pradesh  (C) Rajasthan  (D) Punjab

67. Who among the following poets is the first winner of Sahitya Academy Award from Haryana?
   (A) Vishnu Prabhakar  (B) Giriraj Kishor  (C) Ajit Singh Badal  (D) Kishwar Desai

68. If \(3a = 4b = 6c\) and \(a + b + c = 27\sqrt{29}\), then \(\sqrt{a^2 + b^2 + c^2}\) is
   (A) 3\(\sqrt{29}\)  (B) 81  (C) 87  (D) None of these

69. Chemical formula of marble is
   (A) CaSO\(_4\)  (B) CaCO\(_3\)  (C) Ca(OH)\(_2\)  (D) Ca(HCO\(_3\))\(_2\)

70. A single Flemish bond is the combination of ________ and Flemish bond.
   (A) Header bond  (B) English bond  (C) Stretcher bond  (D) None of the above
77. The Naurangabad Mound in Haryana is situated near
(A) Yamunanagar
(B) Gurugram
(C) Kurukshetra
(D) Bhiwani

78. The main object of compaction is to remove all the ________ and porousness of the concrete.
(A) Cement
(B) Water
(C) Sand
(D) Air pockets

79. ________ is made with base as white chalk and thinner as water.
(A) Enamels
(B) Resins
(C) Distemper
(D) Putty

80. The first printing press of India was set up in
(A) Mumbai
(B) Goa
(C) Pondicherry
(D) Kolkata

81. Which of the following is not an example of bio-mass energy source?
(A) Wood
(B) Gobar-gas
(C) Nuclear energy
(D) None of these

82. From a point P on a level ground, the angle of elevation of the top of a tower is 30°. If the tower is 100 m high, the distance of a point P from the foot of the tower is
(A) 149 m
(B) 156 m
(C) 173 m
(D) 200 m