

राष्ट्रीय प्रतिभा खोज परीक्षा (प्रथम स्तर) 2018
NATIONAL TALENT SEARCH EXAMINATION (FIRST LEVEL) 2018

612 - C

Roll No. रोल नम्बर

Booklet Number पुस्तिका संख्या

310400

SCHOLASTIC APTITUDE TEST
(For Students of Class X)

Time : 90 Minutes Max. Marks : 100
(For Blind Candidates Time : 2 Hours)

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you open the question booklet.

1. Answers are to be given on a separate answer sheet (OMR sheet).
2. Write your Roll Number as allotted to you in the admission card very clearly on the test-booklet and darken the appropriate circles on the answer sheet as per instructions given.
3. There are 100 questions in this test. All are compulsory. The question numbers 1 to 40 belong to Sciences. 41 to 60 to Mathematics and 61 to 100 are on Social Science subjects.
4. Please follow the instructions given on the answer sheet for marking the answers.
5. If you do not know the answer to any question, do not waste time on it and pass on to the next one. Time permitting, you can come back to the questions, which you have left in the first instance and attempt them.
6. Since the time allotted for this question paper is very limited, you should make the best use of it by not spending too much time on any one question.
7. Rough work can be done on the given Blank Pages at the back of the booklet but not on the answer sheet/loose paper.
8. Every correct answer will be awarded one mark. There will be no negative marking.
9. Please return the Answer sheet (OMR Sheet) only to the invigilator after the test.
10. Hindi version of the question paper will be considered as final in case of any dispute arising out of variation in translated version.

PLEASE TURN OVER THE PAGE AND START YOUR WORK.

शैक्षिक योग्यता परीक्षा

(कक्षा X के विद्यार्थियों के लिए)

समय : 90 मिनट पूर्णांक : 100
(दृष्टिहीन अभ्यर्थियों के लिए समय : 2 घंटे)

परीक्षार्थियों के लिए निर्देश

प्रश्न पुस्तिका खोलने से पहले निम्न निर्देशों को ध्यान से पढ़िए।

1. उत्तर एक अलग उत्तर पत्रक (ओ० एम० आर० शीट) में देने हैं।
2. कृपया अपना रोल नम्बर जैसा कि आपके प्रवेश पत्र पर दिया गया है, निर्देशानुसार टेस्ट पुस्तिका पर बहुत स्पष्ट लिखिये और उत्तर-पत्रक पर दिये गये गोलों को काला करें।
3. इस परीक्षा में 100 प्रश्न हैं। सभी प्रश्न अनिवार्य हैं। प्रश्न संख्या 1 से 40 विज्ञान, 41 से 60 गणित और 61 से 100 सामाजिक विज्ञान विषयों पर आधारित हैं।
4. कृपया उत्तर चिह्नित करने के लिए उत्तर-पत्रक पर दिये गये निर्देशों को ध्यान से समझ कर उनकी अनुपालना कीजिए।
5. यदि आप किसी प्रश्न का उत्तर नहीं जानते हैं तो उस पर बहुत समय न गंवाइये और अगले प्रश्न पर बढ़ जाइये। यदि बाद में समय मिले तो जिन प्रश्नों को आपने पहले छोड़ दिया था, उन पर वापस आकर उनके उत्तर दीजिए।
6. क्योंकि इस प्रश्न पत्र के लिए निर्धारित समय बहुत सीमित है, इसलिए इसका अधिकतम उपयोग कीजिये और किसी प्रश्न पर बहुत समय न लगाइये।
7. रफ कार्य पुस्तिका के अंत में दिए गए रिक्त पृष्ठों पर किया जा सकता है किन्तु उत्तर-पत्रक/अलग कागज पर नहीं।
8. प्रत्येक सही उत्तर का एक अंक प्रदान किया जाएगा। इसमें ऋणात्मक अंकन नहीं होगा।
9. कृपया परीक्षा के बाद केवल उत्तर-पत्रक (ओ० एम० आर० शीट) ही निरीक्षक को लौटाइए।
10. अनुवादित विवरण में अन्तर से उठे किसी भी विवाद की स्थिति में प्रश्न-पत्र के हिन्दी विवरण को निर्णायक माना जाएगा।

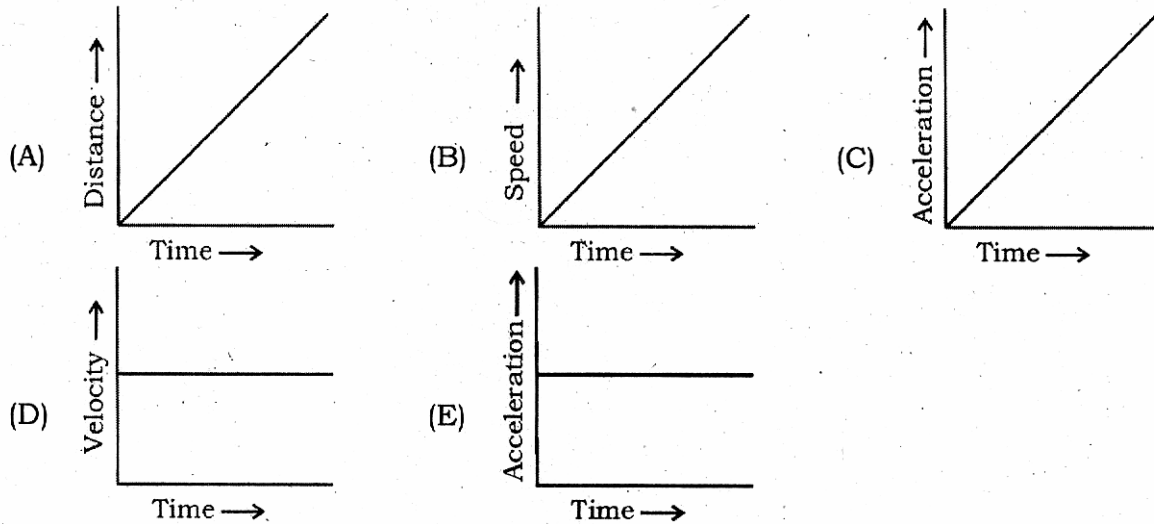
कृपया पृष्ठ पलटिये और अपना कार्य आरम्भ कीजिए।

BSER 2018

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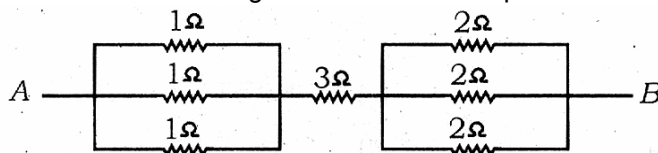
**NATIONAL TALENT SEARCH EXAMINATION-2018, RAJASTHAN
SCHOLASTIC APTITUDE TEST (SAT) PAPER**

1. Consider the following five graphs (note the axes carefully) Which of the following represents motion at constant speed ?



- (1) D only (2) D and E (3) A, B and C (4) A and D
2. A bullet of mass 50 gm is horizontally fired with a velocity 100 ms^{-1} from a gun of mass 10 kg. What will be the recoil velocity of the gun ?
(1) 100 ms^{-1} (2) 500 ms^{-1} (3) 0.5 ms^{-1} (4) Zero
3. A ball is shot vertically upward with a given initial velocity. It reaches a maximum height of 100 m. If on a second shot, the initial velocity is doubled then the ball will reach a maximum height of
(1) 70.7 m (2) 141.4 m (3) 200 m (4) 400 m
4. Let M denotes the mass of earth and let R denotes its radius. The ratio g/G at earth's surface is
(1) R^2/M (2) M/R^2 (3) M/R (4) R/M
5. The unit 'hertz' is same as
(1) second (2) second^{-1} (3) metre (4) metre^{-1}
6. A sound wave has a frequency of 10 kHz and wavelength 3 mm. How much time will it take to travel 3 metre ?
(1) 0.1 sec (2) 1 sec (3) 10 sec (4) 0.01 sec.
7. The size of image formed by a concave mirror is same as the size of object. The position of the object will be
(1) at F (2) between F & C (3) at C (4) between C & infinity.
8. A convex lens has focal length 30 cm. If an object is placed at a distance of 15 cm from it then the magnification produced by the lens is
(1) 6.66 (2) 0.5 (3) 1 (4) 2
9. The electrical resistivity of a conducting wire is K. If its length and area of cross section doubled then the new resistivity of the wire will be
(1) K (2) 2K (3) $K/2$ (4) $K/4$.

10. What is the equivalent resistance of the given circuit between points A and B ?



- (1) $10\ \Omega$ (2) $4\ \Omega$ (3) $\frac{14}{3}\ \Omega$ (4) $\frac{17}{6}\ \Omega$
11. 4 bulbs rated 100 W each, operate for 6 hours per day. What is the cost of the energy consumed in 30 days at the rate of Rs.5/kWh ?
 (1) Rs. 360 (2) Rs. 90 (3) Rs. 120 (4) Rs. 400.

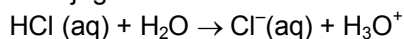
12. An electric current is passed through a straight wire. Magnetic compasses are placed at the points A and B. True statement is



- (1) their needles will not deflect
 (2) only one of the needles will deflect
 (3) both the needles will deflect in the same direction
 (4) the needles will deflect in the opposite direction.
13. Which diagram below illustrates the path of a light ray as it travels from a given point in air to another given point Y in glass



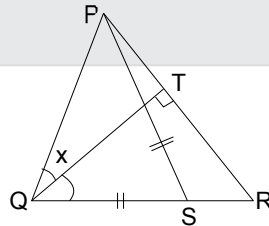
14. Conjugate base of HCl in the following reaction is :



- (1) $\text{H}_3\text{O}^{\oplus}$ (2) H_2O (3) Cl^{\ominus} (4) HCl
15. The chemical formula of Plaster of Paris is
 (1) CaSO_4 (2) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ (3) $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$ (4) $\text{CaSO}_4 \cdot \text{H}_2\text{O}$
16. Which type of catalyst is ethanol in the following reaction ?
 $\text{CHCl}_3 + \text{O}_2 \xrightarrow{\text{C}_2\text{H}_5\text{OH}} 2\text{COCl}_2 + 2\text{HCl}$
 (1) Positive catalyst (2) Negative catalyst (3) Bio-catalyst (4) Autocatalyst
17. Metalloid among the following is :
 (1) lithium (2) sulphur (3) sodium (4) silicon

18. The IUPAC name of $\begin{array}{l} \text{CH}_3 \\ \diagdown \\ \text{C} = \text{CH}_2 \\ \diagup \\ \text{CH}_3 \end{array}$ is
- (1) 1, 1-dimethyl-2-ethene (2) 2-methyl-1-propene
 (3) 2, 2-dimethyl ethene (4) 2-methyl prop-2-ene
19. The polymer formed by condensation of adipic acid and hexamethylene diamine is :
 (1) isoprene (2) rayon (3) terylene (4) nylon-6, 6
20. The method for separation of mixture of common salt and ammonium chloride is
 (1) fractional distillation (2) sublimation (3) chromatography (4) crystallization
21. Number of molecules present in 14 gm N_2 molecule is :
 (1) 6.022×10^{23} (2) 3.011×10^{23} (3) 1.51×10^{23} (4) 6.022×10^{22}
22. Which of the following elements has an electronic configuration 2, 8, 6 ?
 (1) Sulphur (2) Oxygen (3) Phosphorus (4) Chlorine
23. Which of the following elements shows variable valency ?
 (1) Na (2) Mg (3) Fe (4) Zn
24. Formula of aluminium carbonate is
 (1) $\text{Al}_2(\text{CO}_3)_3$ (2) Al_2CO_3 (3) Al_2HCO_3 (4) AlCO_3
25. Formula of Freon-112 is :
 (1) $\text{C}_2\text{F}_2\text{Cl}_4$ (2) CF_2Cl_2 (3) CFCl_3 (4) CCl_3F .
26. The element X reacting with chlorine forms a water soluble compound having high melting point. Element X is
 (1) magnesium (2) argon (3) carbon (4) neon
27. Which tissue is found in fibrous covering of coconut ?
 (1) Parenchyma (2) Collenchyma (3) Sclerenchyma (4) Meristematic tissue.
28. Nucleus of the cell was discovered by
 (1) Robert Hooke (2) Leeuwenhoek (3) Robert Brown (4) Virchow
29. Which of the following is a plant hormone ?
 (1) Insulin (2) Thyroxine (3) Cytokinin (4) Oestrogen
30. Plant group more sensitive to the levels of sulphur dioxide in air is
 (1) Thallophyta (2) Lichen (3) Pteridophyta (4) Gymnosperm
31. Examples of perennial, evergreen and woody plants are
 (1) Funaria, Marchantia (2) Marsilea, Horse-tail (3) Cycas, Pinus (4) Ulothrix, Spirogyra
32. Turgidity of cell is maintained by
 (1) Vacuole (2) Lysosome (3) Plastid (4) Golgi body
33. The substance not essential for photosynthesis is
 (1) Sunlight (2) Chlorophyll (3) Nitrogen (4) Carbon dioxide

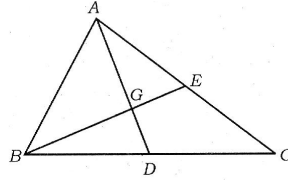
34. The nature of nerve impulse is
 (1) Chemical (2) Magnetic (3) Electrochemical (4) Electromagnetic
35. The example of uricotelic animals is
 (1) fishes (2) reptiles (3) amphibians (4) mammals
36. According to Mendel in monohybrid cross the genotypic ratio of F_2 generation is
 (1) 3 : 1 (2) 9 : 3 : 3 : 1 (3) 1 : 1 (4) 1 : 2 : 1
37. Example of connective tissue is
 (1) Cartilage (2) Skeletal muscles (3) Skin of animals (4) nerve cells.
38. The example of egg laying mammal is
 (1) Bat (2) kangaroo (3) Pigeon (4) Echidna
39. Non-communicable disease is
 (1) Cancer (2) AIDS (3) Amoebiasis (4) Jaundice
40. Animals of which phylum are pseudocoelomate ?
 (1) Porifera (2) Platyhelminthes (3) Aschelminthes (4) Mollusca
41. If $\frac{3+2\sqrt{3}}{3-\sqrt{3}} = a + \sqrt{3} b$, then the value of $\sqrt{a+b}$ where a and b are rational numbers is
 (1) 5 (2) 8 (3) 2 (4) 16
42. For which positive values of k and p, equations $2x^2 + px + 8 = 0$ and $p(x^2 + x) + k = 0$ have equal roots ?
 (1) k = 1, p = 4 (2) k = 2, p = 8 (3) k = 4, p = 8 (4) k = 2, p = 4
43. If α, β are zeroes of polynomial $x^2 - p(x + 1) - k$ such that $(\alpha + 1)(\beta + 1) = 6$, then value of k is
 (1) 5 (2) -1 (3) -3 (4) -5
44. Which is unit digit of $6^{18} - 5^{10}$?
 (1) 5 (2) 8 (3) 1 (4) 9
45. In the following figure $QT \perp PR$ and $QS = PS$. If $\angle TQR = 40^\circ$ and $\angle RPS = 20^\circ$, then value of x is



- (1) 80° (2) 25° (3) 15° (4) 35°
46. Which term of A.P. $20, 19\frac{1}{4}, 18\frac{1}{2}, \dots$ is first negative term ?
 (1) 18th (2) 15th (3) 28th (4) 27th
47. The angles of elevation of the top of a 12 m high tower from two points in opposite directions with it are complementary. If distance of one point from its base is 16 m, then distance of second point from tower's base is
 (1) 24 m (2) 9 m (3) 12 m (4) 18 m

48. If $m = \frac{\cos A}{\cos B}$ and $n = \frac{\cos A}{\sin B}$, then $(m^2 + n^2) \cos^2 B$ is equal to
 (1) m^2 (2) n^2 (3) $m^2 + n^2$ (4) $m + n$
49. If ratio of heights of two similar triangles is 4 : 9, then ratio between their areas is
 (1) 2 : 3 (2) 3 : 2 (3) 81 : 16 (4) 16 : 81
50. In a circle of 10 cm radius, two chords $AB = AC = 12$ cm, then the length of the chord BC is
 (1) 12 cm (2) 9.6 cm (3) 19.2 cm (4) 7.2 cm
51. If mean of ten consecutive odd numbers is 120, then the mean of first five odd numbers among them is
 (1) 113 (2) 115 (3) 114 (4) 116
52. Find the area of shaded region, where side of square ABCD is 10 cm and two arcs drawn from two opposite vertices of the square.
-
- (1) $\frac{200}{7}$ sq. unit (2) $\frac{400}{7}$ sq. unit (3) $\frac{600}{7}$ sq. unit (4) $\frac{100}{7}$ sq. unit
53. Find the capacity of a glass which is in the shape of frustum of height 14 cm and diameters of both circular ends are 4 cm and 2 cm.
 (1) $\frac{308}{3}$ cm³ (2) $\frac{298}{21}$ cm³ (3) 112 cm² (4) $\frac{298}{21}$ cm²
54. If a point P $\left(\frac{23}{5}, \frac{33}{5}\right)$, divides line AB joining two points A (3, 5) and (x, y) internally in ratio of 2 : 3, then the value of x and y will be
 (1) x = 4, y = 7 (2) x = 5, y = 9 (3) x = 7, y = 9 (4) x = 7, y = 8
55. If a leap year is selected randomly, then what is the probability of having 53 Monday in this year
 (1) $\frac{1}{7}$ (2) $\frac{2}{7}$ (3) $\frac{53}{366}$ (4) $\frac{52}{365}$
56. If the length of circumference of a circle is 60 cm more than its diameter then length of its circumference is
 (1) 14π cm (2) 28π cm (3) 35π cm (4) 42π cm

57. In given $\triangle ABC$, AD and BE are median of triangle which intersect each other at point G. If area of $\triangle BDG$ is 1 cm^2 , then what is the area of DCEG?



- (1) 2 cm^2 (2) 3 cm^2 (3) 4 cm^2 (4) 1 cm^2
58. What is the radian value of angle $60^\circ 30'$?
- (1) $\frac{\pi^C}{3}$ (2) $\frac{121}{360} \pi^C$ (3) $\frac{121 \pi^C}{180}$ (4) $\frac{121}{540} \pi^C$
59. The diameter of a sphere is decreased by 25%. By what per cent does its curved surface area decrease?
- (1) 25% (2) 56.25% (3) 43.75% (4) 62.5%
60. Value of $(x - y)^3 + (y - z)^3 + (z - x)^3$ is –
- (1) $(x - y)^3 (y - z)^3 (z - x)^3$ (2) $3(x - y)(y - z)(z - x)$
(3) $x^3 + y^3 + z^3 - 3xyz$ (4) $x^3 + y^3 + z^3 - 2x^2y - 2y^2z - 2z^2x$
61. Match List-I with List-II correctly and choose the correct code from the following :
- | | |
|---|--|
| <p>List-I</p> <p>(A) Meeting of the Estates General</p> <p>(B) Bastille was destroyed on</p> <p>(C) Abolishment of feudal system in France</p> <p>(D) Swore of Tennis Court</p> | <p>List-II</p> <p>(i) 20th June, 1789</p> <p>(ii) 4th August, 1789</p> <p>(iii) 14th July, 1789</p> <p>(iv) 5th May, 1789.</p> |
|---|--|
- Code:
- | | | | |
|--------|-----|-----|-----|
| A | B | C | D |
| (1) i | ii | iii | iv |
| (2) iv | iii | ii | i |
| (3) iv | i | ii | iii |
| (4) i | iv | iii | ii. |
62. The state of India where the Jallianwalla Bagh is situated, is
- (1) Haryana (2) Uttar Pradesh (3) Punjab (4) Rajasthan.
63. The German King in 1871 was
- (1) William I (2) Napoleon III (3) Frederik William IV (4) Emmanuel II.
64. Who discovered the spinning jenny ?
- (1) John Ke (2) T.E. Nicholson (3) Raphael Samuel (4) James Hargreaves
65. The year of the Partition of Bengal was
- (1) 1903 (2) 1905 (3) 1907 (4) 1909.

66. Which one of the following countries was not among the Allied Powers ?
(1) England (2) France (3) Russia (4) Germany.
67. When was the publication of Bengal Gazette initiated ?
(1) 1750 (2) 1780 (3) 1850 (4) 1880.
68. Consider the following points :
(A) Mahatma Gandhi started Salt March with his 78 confidential volunteers.
(B) Mahatma Gandhi violated the Salt law at Dandi on April 20th, 1930. Choose the correct answer from the codes given below :
(1) only (A) (2) only (B) (3) both (A) and (B) (4) none of these.
69. After which war the British rule was founded in India ?
(1) Battle of Sabrao (2) Battle of Panipat
(3) Battle of Plassey (4) Second Anglo Mysore war.
70. When was the Great Economic Depression between the two World Wars held ?
(1) 1921 (2) 1929 (3) 1935 (4) 1939.
71. Who composed Ananda Math ?
(1) Rabindranath Tagore (2) Munsii Premchand
(3) Mahatma Gandhi (4) Bankim Chandra Chattopadhyay
72. 'Khadar' is found in
(1) the northern mountain region (2) Thar desert
(3) the vast northern plain (4) the peninsular plateau.
73. The rising place of the largest river of peninsular plateau is
(1) Betul (2) Nasik (3) Jabalpur (4) Cuddalore.
74. The quantity of rainfall received on the Western Ghats by south-west monsoon
(1) 100 - 150 cm (2) 150 - 200 cm (3) 200 - 250 cm (4) above 250 cm.
75. In which Indian forest are silver, fir and pine trees found ?
(1) " Tropical deciduous forest (2) Montane forest
(3) Mangrove forest (4) Tropical evergreen rain forest
76. Match List - I and List - II and choose the correct code from the following
- | | |
|------------------|-----------------|
| List - I | List - II |
| (A) Northern end | (i) 8° 4' N |
| (B) Southern end | (ii) 37° 6' N |
| (C) Eastern end | (iii) 68° 7' E |
| (D) Western end | (iv) 97° 25' E. |
- Code :
- | | | | |
|---------|-----|----|-----|
| A | B | C | D |
| (1) ii | iii | iv | i |
| (2) i | ii | iv | iii |
| (3) ii | i | iv | iii |
| (4) iii | ii | i | iv. |

77. Which of the following is the major sugarcane producing state ?
 (1) Uttar Pradesh (2) Rajasthan (3) West Bengal (4) Madhya Pradesh.
78. Important deposits of which mineral are found in Koraput in Odisha ?
 (1) Iron ore (2) Coal (3) Copper (4) Bauxite.
79. In which year was the first successful cotton textile mill established in India ?
 (1) 1853 (2) 1854 (3) 1855 (4) 1856..
80. Indian population policy 2000 not includes
 (1) free education (2) free from diseases
 (3) reducing infant mortality rate below 30 (4) increase the employment opportunities.
81. Gas transportation pipeline which passes through Kota in Rajasthan is
 (1) Guwahati — Barauni — Allahabad — Kanpur (2) Barauni — Rajbandh — Haldia
 (3) Hazira - Vijapur — Jagdishpur (4) Salaya — Virarngam — Mathura — Delhi
82. In which state of India is red yellow soil found ?
 (1) Chhattisgarh (2) Rajasthan
 (3) Jammu and Kashmir (4) None of these.
83. In which House is the finance bill presented first ?
 (1) Rajya Sabha (2) Lok Sabha
 (3) Both Lok Sabha and Rajya Sabha anywhere (4) Reserve Bank of India.
84. Who among the following is a part of the political executive?
 (1) District Collector (2) Secretary of the Ministry of Home Affairs
 (3) Home Minister (4) Director General of Police.
85. Which of the following institutions can make changes to an existing law of our country ?
 (1) Supreme Court of India (2) International Court of Justice
 (3) Prime Minister (4) Parliament
86. Which one of the following is considered as a fundamental right according to the Constitution of India ?
 (1) Right to work (2) Right to adequate livelihood
 (3) Right to protect one's culture (4) Right to get higher education.
87. Match the following in reference to constitution making process :
 (A) B.N. Rao (i) President of the Constituent Assembly
 (B) B.R. Ambedkar (ii) Member of the Drafting Committee
 (C) Rajendra Prasad (iii) Chairman of the Drafting Committee
 (D) T.T. Krishnamachari (iv) Legal Advisor.
- (1) (A) - iv, (B) - iii, (C) - i, (D) - ii (2) (A) - iv, (B) - ii, (C) - i, (D) - iii
 (3) (A) - i, (B) - iii, (C) - iv, (D) - ii (4) (A) - iii, (B) - iv, (C) - i, (D) - ii.
88. Choose the correct statement describing the word 'code of conduct':
 (A) A set norms and guidelines to be followed by Political parties
 (B) A set of norms and guidelines to be followed by candidates in Election
 (C) Guidelines for election commission
 (D) Compulsory voting for voters.
 (1) A, B, C (2) A, B (3) B, C (4) C, D
89. According to the constitution of India, how many maximum no. of judges can be appointed in supreme court ?
 (1) 29 + 1 (2) 30 + 1 (3) 28 + 1 (4) 31 + 1

90. How many members will be nominated in Legislative council ?
 (1) $\frac{1}{3}$ (2) $\frac{1}{2}$ (3) $\frac{1}{6}$ (4) $\frac{1}{4}$
91. By which Article of the constitution of India is the Prime minister appointed ?
 (1) 74th (2) 75th (3) 52nd (4) 61st
92. The vice president of India is elected by
 (1) elected members of Lok Sabha
 (2) all members of Rajya Sabha
 (3) elected members of Lok Sabha & Rajya Sabha
 (4) all members of Lok Sabha, Rajya Sabha and all Legislative assemblies
93. Match List – I and List – II and choose the correct code from the given codes :
- | | | | |
|----------------------|--|-----------------------|--|
| List - I | | List – II | |
| (A) Union list | | (i) Computer Software | |
| (B) State list | | (ii) Communications | |
| (C) Concurrent list | | (iii) Police | |
| (D) Residuary Powers | | (iv) Forests | |
- Code :
- | | | | |
|---------|-----|----|-----|
| A | B | C | D |
| (1) iii | ii | i | iv |
| (2) ii | iii | iv | i |
| (3) ii | iv | i | iii |
| (4) iv | iii | ii | i |
94. The example of capital is
 (1) Water (2) Forest (3) Climate (4) Machine
95. The rabi crop is
 (1) Jowar (2) Bajra (Millet) (3) Maize (4) Wheat
96. In India the currency note is issued by
 (1) Reserve Bank of India (2) State Bank of India
 (3) NABARD (4) Bank of India
97. The source of institutional credit is
 (1) Money lender (2) Landlord (3) Bank (4) Relatives
98. The example of tertiary sector is
 (1) Agriculture (2) Fisheries
 (3) making sugar from sugarcane (4) Banking services.
99. The Government of India enacted the law of "Right to Information" Act in
 (1) October, 2005 (2) November, 2006 (3) December, 2007 (4) January, 2008.
100. The Multinational Company of India is
 (1) Infosys (2) Asian Paints (3) Tata Motors (4) All of these.

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