### राष्ट्रीय प्रतिभा खोज परीक्षा ( प्रथम स्तर ) 2019 NATIONAL TALENT SEARCH EXAMINATION ( FIRST LEVEL ) 2019

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Booklet Number	पुस्तिका संख्य

## SCHOLASTIC APTITUDE TEST (For Students of Class X)

Time: 120 Minutes Max. Marks: 100 (For Blind Candidates Time: 2 Hours 30 Minutes)

# INSTRUCTIONS TO CANDIDATES Read the following instructions carefully before you open the question booklet.

 Answers are to be given on a separate answer sheet (OMR sheet).

- Write your Roll Number as allotted to you in the admission card very clearly on the testbooklet and darken the appropriate circles on the answer sheet as per instructions given.
- There are 100 questions in this test. All are compulsory. The question numbers 1 to 13 belong to Physics, 14 to 26 Chemistry, 27 to 33 Botany, 34 to 40 Zoology, 41 to 60 Mathematics, 61 to 71 History, 72 to 82 Geography, 83 to 93 Political Science and 94 to 100 are on Economics subjects.
- 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.
- 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.
- Every correct answer will be awarded one mark. There will be no negative marking.
- 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 : 120 मिनट पूर्णांक : 100 ( दृष्टिहीन अभ्यर्थियों के लिए समय : 2 घंटे 30 मिनट )

परीक्षार्थियों के लिए निर्देश प्रश्न पुस्तिका खोलने से पहले निम्न निर्देशों को ध्यान से पढ़िए।

- उत्तर एक अलग उत्तर पत्रक (ओ० एम० आर० शीट) में देने हैं।
- क्रपया 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।
- इस परीक्षा में 100 प्रश्न हैं। सभी प्रश्न अनिवार्य हैं। प्रश्न संख्या 1 से 13 भौतिक विज्ञान, 14 से 26 रसायन विज्ञान, 27 से 33 वनस्पति विज्ञान, 34 से 40 प्राणी विज्ञान, 41 से 60 गणित, 61 से 71 इतिहास, 72 से 82 भूगोल, 83 से 93 राजनीति विज्ञान एवं 94 से 100 अर्थशास्त्र विषयों पर आधारित हैं।
- 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।
- क्योंकि इस प्रश्न पत्र के लिए निर्धारित समय बहुत सीमित है, इसलिए इसका अधिकतम उपयोग कीजिये और किसी प्रश्न पर बहुत समय न लगाइये।
- रफ कार्य पुस्तिका के अंत में दिए गए रिक्त पृथ्ठों पर , किया जा सकता है किन्तु उत्तर-पत्रक/अलग कागज पर नहीं।
- प्रत्येक सही उत्तर का एक अंक प्रदान किया जाएगा। इसमें ऋणात्मक अंकन नहीं होगा।
- 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 2019

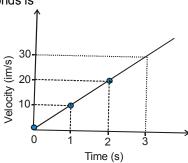
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### **NATIONAL TALENT SEARCH EXAMINATION-2018-19, RAJASTHAN** SCHOLASTIC APTITUDE TEST (SAT) PAPER & SOLUTION

- 1. The inertia of a body depends upon.
  - (1) Gravitational acceleration
- (2) Centre of gravity of body

(3) Shape of body

- (4) mass of body
- More mass more inertia, less mass less inertia Sol.
- Ans. (4)
- 2. Velocity-time graph of a body moving with uniform acceleration is shown in the diagram. The distance travelled by the body in 3 seconds is



- (1) 90 m
- (2) 45 m
- (3) zero
- (4) 10 m

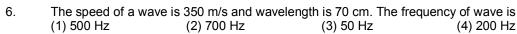
Sol. Area under v-t graph represent distance so

Distance = 
$$\frac{1}{2} \times 30 \times 3 = 45$$
m

- Ans. (2)
- 3. The distance between two masses is to be halved. The gravitational force between them will be (1) double (2) one-fourth (3) quadruple (4) half
- $F = \frac{Gm_1m_2}{r^2}$ Sol. Now,  $\frac{Gm_1m_2}{(r/2)^2} = \frac{4Gm_1m_2}{r^2} = 4F$
- Ans. (3)
- 4. Which statement is correct among the following for gravitational acceleration (g) due to earth?
  - (1) The value of g is equal at poles and equatorial circle
  - (2) The value of g is more at poles than at equatorial circle
  - (3) The value of g is more at equatorial circle than at poles
  - (4) None of these
- $g_P \propto \frac{1}{R_P^2} \& g_e \propto \frac{1}{R_e^2}$ Sol.

  - $R_{e} > R_{P}$ So  $g_p > g_e$
- Ans.
- 5. Which waves are used in the device "SONAR"?
  - (1) Audible waves
- (2) Ultrasound waves (3) Infrasound waves (4) Light waves

- Ans.
- (2)



Sol.  $v = n\lambda$ 

$$n = \frac{v}{\lambda} = \frac{350}{70 \times 10^{-2}} = 500 \text{ Hz}$$

Ans. (1)

7. Which defect in human eye arises due to the irregularities in spherical shape of cornea ?
(1) Cataract (2) Hypermetropia or long sightedness

(3) Myopia or short sightedness

(2) Hypermetropia or long sightedness(4) Astigmatism

Ans. (4)

8. Focal length of convex lens is +40 cm. The power of this lens will be

(1) + 4 dioptre

- (2) + 2.5 dioptre
- (3) + 40 dioptre
- (4) + 25 dioptre

Sol. 
$$P = \frac{100}{f(cm)} \implies P = \frac{100}{40} = 2.5D$$

Ans. (2)

9. Match the electric devices given in Column–A with their symbols shown in Column–B.



(b) Rheostat

(c) Electric cell

(d) Plug key

(iv) \_\_\_\_\_

Then correct answer is

$$(1) \ (a) - \ (iii), \ (b) - (i), \ (c) - (iv), \ (d) - (ii)$$

- (2) (a) (iii), (b) (iv), (c) (ii), (d) (i)
- (3) (a) (iii), (b) (ii), (c) (i), (d) (iv)
- (4) (a) (iii), (b) (iv), (c) (i), (d) (ii)

Ans. (4

- 10. Which one of the following is not a part of direct current generator?
  - (1) Commutator

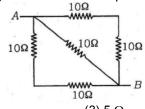
(2) Sliprings

(3) Armature

(4) Carbon brushes

Ans. (2)

11. The equivalent resistance of the given circuit between points A and B is



(1) 40  $\Omega$ 

(2) 4  $\Omega$ 

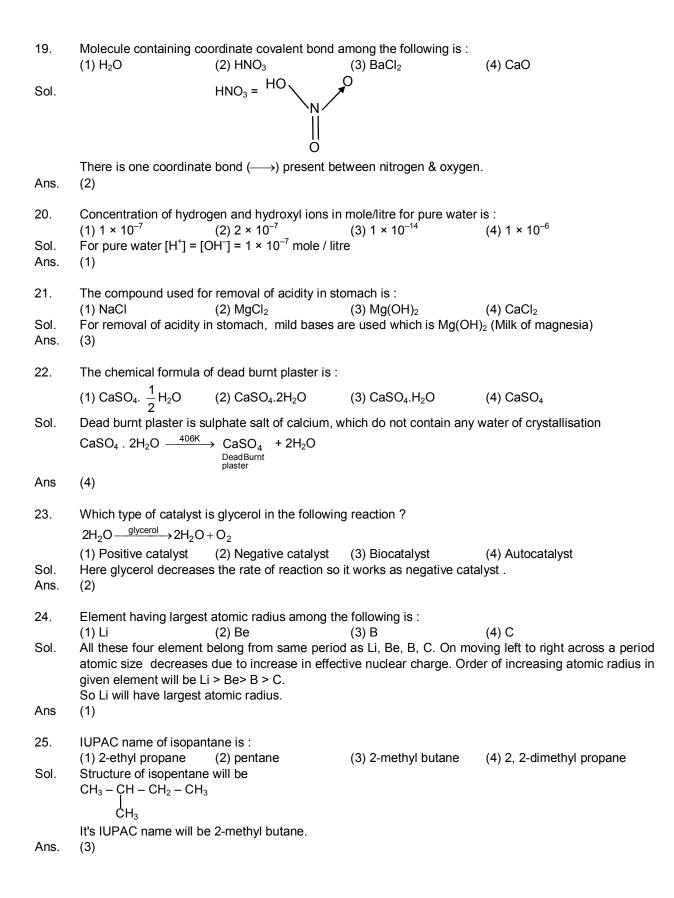
(3) 5  $\Omega$ 

(4)  $0.2 \Omega$ 

Sol. 
$$R_{AB} = \frac{10}{2} = 5 \Omega$$

Ans.

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12.
          If 4 joule work is to be done in stretching a spring by 4 cm then spring constant of the spring is
          (1) 5 \times 10^3 \text{ N/m}
                                          (2) 5 \times 10^4 \text{ N/m}
                                                                           (3) 2 \times 10^3 \text{ N/m}^{-1}
                                                                                                           (4) 2 \times 10^4 \text{ N/m}
          U = \frac{1}{2}kx^2
Sol.
          k = \frac{2U}{x^2} = \frac{2}{x^2} = \frac{2}{4 \times 4 \times 10^{-4}} = \frac{1}{2} \times 10^4 = 5 \times 10^3 \text{ N/m}
Ans.
13.
          The electric device which is having more use time and less electricity consumption is
          (1) Incandescent bulb
                                                                           (2) CFL
          (3) LED
                                                                           (D) Tube light
Ans.
          (3)
14.
          Homogeneous mixture among the following is:
                                           (2) cloud
                                                                           (3) smoke
                                                                                                           (4) air
Sol.
          Air \rightarrow N<sub>2</sub> \rightarrow 78%, O<sub>2</sub> \rightarrow 21%
          Rest -CO<sub>2</sub>, H<sub>2</sub>S etc.
          Air is homogeneous mixture
Ans (4)
          The substance showing sublimation property among the following is:
15.
          (1) common salt
                                          (2) copper sulphate
                                                                           (3) potassium nitrate
                                                                                                           (4) camphor
Sol.
          (1) Common salt -NaCl
          (2) Copper sulphate - CuSO<sub>4</sub>
          (3) Potassium nitrate - KNO<sub>3</sub>
          (4) Camphor -sublime - C<sub>10</sub>H<sub>16</sub>O Shows sublimation
Ans
16.
          Number of molecule present in 32 g of O<sub>2</sub> is:
                                                                           (3) 1.51 \times 10^{23}
                                                                                                           (4) 6.022 \times 10^{22}
          (1) 6.022 \times 10^{23}
                                          (2) 3.011 \times 10^{23}
          Mole = \frac{\text{Given mass of molecules}}{\text{Mole}} = \frac{\text{No. of molecule}}{\text{Mole}}
Sol.
                          Molecularmass
                                                           6.023 \times 10^{23}
          As per question \Rightarrow \frac{32}{32} = \frac{\text{No.of O}_2 \text{ molecule}}{6.023 \times 10^{23}}
          \Rightarrow No. of O<sub>2</sub> molecule = 6.023 × 10<sup>23</sup>
Ans
17.
          Number of neutrons is isotope of hydrogen, tritium is:
                                                                                                           (4) 3
          (1) 0
                                           (2) 1
                                                                           (3) 2
Sol.
          Isotopes of hydrogen
                                           _{1}H^{1}
                                                                           _{1}H^{2}
                                                                                                            ₁H³
                                           Protium
                                                                           Deutirium
                                                                                                            Tritium
          Proton
                                           1
                                                                           1
                                                                                                            1
          Neutron
                                           0
                                                                                                           2
                                                                           1
          Electron
                                                                           1
                                                                                                            1
          Since, A = Z + n
               \Rightarrow n = A – Z
               \Rightarrow n = 3 –1 = 2
          So No. of neutron in tritium = 2
Ans.
18.
          The formula of chloride of an element X is XCl<sub>3</sub>. The formula of its oxide will be :
                                          (2) XO<sub>3</sub>
          (1) XO_2
                                                                           (3) X_2O_3
                                                                                                           (4) X_3O_2
          Since element chloride = XCl<sub>3</sub>
Sol.
          then valency of X = 3
          Oxide of element X = X^{+3} O^{-2} = X_2 O_3
Ans.
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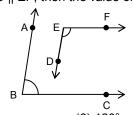


26.	The polymer of acrylon (1) Polythene	(2) Polyvinyl chloride	(3) Polyvinyl cyanide	(4) Polystyrene	
Sol.	Chemical formula of ac	rylonitrile $\rightarrow$ CH <sub>2</sub> = CH –	CN		
	$ \begin{array}{c} CH_2 = CH \\ CN \end{array} $ Acrylonitrile	risation CH <sub>2</sub> - CH CN n Polyvinyl cyanide			
Ans.	(3)				
27.	The cell organelle disco	overed by de Duve is			
Ans.	(1) Plastid (3)	(2) Ribosome	(3) Lysosome	(4) Centrosome	
28.	The example of hydrop		(0) 14	(A) Q	
Ans.	<ul><li>(1) Hydrilla, Calotropis</li><li>(4)</li></ul>	(2) Lotus, Salsola	(3) Moss, Lichen	(4) Sagittaria, Trapa	
29.		es in the growing pollen			
Ans.	(1) one (2)	(2) two	(3) three	(4) seven	
30.	The main method of rep			(A) Q (E)	
Ans.	(1) Budding (1)	(2) Sporogenesis	(3) Cutting	(4) Grafting	
31.		re reserves established i			
Ans.	(1) 18 (1)	(2) 118	(3) 142	(4) 669	
32.	The bark of which plant (1) Aloe vera (3) Curcuma longa	is used as medicine?	(2) Terminalia arjuna (4) Papaver somniferur	n	
Ans.	(2)				
33.	In which year was India Organisation?	n Space Research comr	mittee changed into India	n Space Research	
34.	(1) 1965 Bacterial disease is	(2) 1969	(3) 1975	(4) 1981	
Ans.	(1) Dengue (3)	(2) Polio myelitis	(3) Tuberculosis	(4) Chicken pox	
35.	Honey bee culture is kr		(2) Coriouttura	(4) Dissisuation	
Ans.	<ul><li>(1) Silviculture</li><li>(2)</li></ul>	(2) Apiculture	(3) Sericulture	(4) Pisciculture	
36.	Disease caused by defi		(2) Course	(4) Diekoto	
Ans.	<ul><li>(1) Night blindness</li><li>(4)</li></ul>	(2) Beri-beri	(3) Scurvy	(4) Rickets	
37.	Universal donor blood g	· · _	(O) A.D.	(4) D	
Ans.	(1) A (2)	(2) O	(3) AB	(4) B.	
38.	Skeletal muscles are (1) striated and volunta (3) Striated and involun		(2) Unstriated and volum (4) Unstriated and invol		

- 39. Water vascular system is found in (2) Echinodermata (1) Cnidaria Ans. (2) 40. Which of the following is not a secondary reproductive organ? (1) Fallopian tube (2) Uterus Ans. 41. (2)  $\sqrt{2}$  $\frac{2\sqrt{11}}{7\sqrt{11}} = \frac{2}{7}$  is rational number. Sol. Ans. 42.
- (3) Mollusca (4) Annelida
- (4) Vagina

- Which of the following is not an irrational number?

- - $\frac{2\sqrt{11}}{7\sqrt{11}}$  is not an irrational number.
- If a polynomial  $x^4 4x^2 + x^3 + 2x + 1$  is divided by x 1, then remainder will be (4) - 1
- $P(x) = x^4 4x^2 + x^3 + 2x + 1$ Sol.  $P(x) \div (x - 1)$ Remainder =  $P(1) = (1)^4 - 4(1)^2 + (1)^3 + 2(1) + 1$ = 1 - 4 + 1 + 2 + 1 = 1
- Ans.
- 43. The sum of the digits of a two digit number is 14. If 18 is subtracted from the number, digits are reversed. Find the number (4)76
- (2) 77 (3)68(1)86N = 10x + yN' = 10y + xSol. x + y = 14N - 18 = N'(10x + y) - 18 = 10y + x9(x - y) = 18x - y = 2from (1) & (2)  $\sqrt{\text{we get }} x = 8 \text{ } x = 6$ N = 86
- Ans. (1)
- In the given figure, AB || ED and BC || EF, then the value of ∠ABC + ∠DEF is 44.

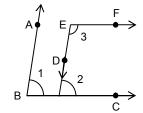


- (1) 90°
- $(2) 180^{\circ}$
- (3) 120°
- (4) 360°

Sol.

$$\angle$$
 1 =  $\angle$  2 AB || DE \_\_\_\_(1)  
 $\angle$  2 +  $\angle$  3 = 180° \_\_\_(2)  
From (1) & (2)  
 $\angle$  1 +  $\angle$  3 = 180°

Ans. (2)



45. How many cubic centimetres make 100 kilolitre?

 $(1) 10^{10}$ 

 $(2) 10^5$ 

 $(3) 10^8$ 

 $(4) 10^6$ 

Sol.  $1000 \text{ cm}^3 = 1 \text{ I}$ 

 $1 \text{ kl} = 1000 \times 1000 \text{ cm}^3$ 

 $100 \text{ kl} = 10^8 \text{ cm}^3$ 

Ans. (3)

46. 5<sup>th</sup> term of an A.P. is 10 more than its 3<sup>rd</sup> term. What is the difference of its 9<sup>th</sup> and 6<sup>th</sup> terms?

(1) 15

(2) 3

(3)6

(4) 10

Sol.  $a_5 = 10 + a_3$ 

a + 4d = 10 + a + 2d

2d = 10

d = 5

 $a_9 - a_6 = a + 8d - (a + 5d)$ 

= 3d = 3 (5) = 15

Ans. (1)

47. If tan A =  $\sqrt{2}$  –1 where A is an acute angle then the value of sin A • cos A will be

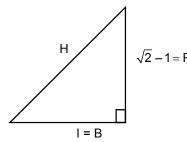
(1) 2√2

(2)  $\sqrt{2}$ 

(3)  $\frac{1}{2\sqrt{2}}$ 

(4)  $\frac{3}{\sqrt{2}}$ 

Sol.  $A = \frac{\sqrt{2} - 1}{1}$ 



$$h = \sqrt{P^2 + B^2}$$

$$=\sqrt{(\sqrt{2}-1)^2+1^2}$$

$$=\sqrt{2+1-2\sqrt{2}+1}$$

$$= \sqrt{4 - 2\sqrt{2}}$$

SinA Cos A = 
$$\frac{\sqrt{2} - 1}{\sqrt{4 - 2\sqrt{2}}} \times \frac{1}{\sqrt{4 - 2\sqrt{2}}}$$

$$=\frac{\sqrt{2}-1}{4-2\sqrt{2}}=\frac{\sqrt{2}-1}{2\sqrt{2}(\sqrt{2}-1)}=\frac{1}{2\sqrt{2}}$$

Ans. (3)

48. The multiplication of all prime numbers between 1 and 10 is

(1) 105

(2) 945

(3)210

(4) 1890

Sol.  $2 \times 3 \times 5 \times 7 = 210$ 

Ans.

(3)

49. If the roots of 
$$(b-c) x^2 + (c-a) x + (a-b) = 0$$
 are real equal, then which of the following is true? (1)  $2b = a + c$  (2)  $2a = b + c$  (3)  $2c = a + b$  (4)  $2b = a - c$ 

Sol. 
$$(b-c)x^2 + (c-a)x + (a-b) = 0$$
  
for equal roots  
 $D = 0$   
 $(c-a)^2 - 4(b-c)(a-b) = 0$   
 $c^2 + a^2 - 2ac - 4ba + 4b^2 + 4ac - 4bc = 0$   
 $c^2 + a^2 + 4b^2 - 4ab - 4bc + 2ac = 0$ 

$$(c + a - 2b)^2 = 0$$
  
 $c + a = 2b$ .

Ans. (1)

50. For which value of k, a pair of equations 
$$x + y - 4 = 0$$
,  $2x + ky - 3 = 0$  has no solution? (1) 0 (2) 2 (3) 6 (4) 8

Sol. 
$$x + y - 4 = 0$$
,  $2x + ky - 3 = 0$ 

$$\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$$

$$\frac{x}{2x} = \frac{y}{ky}$$

$$\Rightarrow$$
 2xy = kxy

$$k = 2$$
.

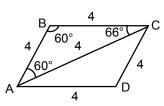
Ans. (2)

(1) 
$$\frac{\sqrt{3}}{2}$$

(3) 
$$2\sqrt{3}$$

(4) 
$$4\sqrt{3}$$

Sol.



area 
$$\triangle ABC = \frac{\sqrt{3}}{4}(4)^2 = 4\sqrt{3}$$

area ABCD = 
$$8\sqrt{3} = \frac{1}{2} \times 4 \times d_2$$

$$d_2 = 4\sqrt{3}$$
.

Ans. (4)

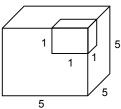
$$0,\ 1,\ 2,\ 3,\ 4,\ 5,\ 6,\ 7,\ 8,\ 9,\ 10,\ 11,\ 12,\ 13,\ 14,\ 15,\ 16$$

Mean = 
$$\left(\frac{n+1}{2}\right)^{th}$$
 term

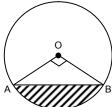
$$= \left(\frac{17+1}{2}\right)^{th} term$$

- 53. A cube of edge 1 cm is cut from a corner of a solid cube of edge 5 cm. What is the total surface area of the solid remained?
  - (1) 150 cm<sup>2</sup>
- (2) 149 cm<sup>2</sup>
- (3) 151 cm<sup>2</sup>
- (4) 147 cm<sup>2</sup>

Sol.



- Ans. (1)
- 54. In the given figure, chord AB subtends an angle 90° at centre O of the circle having radius 4 cm. Area of the shaded region will be



- (1)  $(4\pi 2)$  cm<sup>2</sup>
- (2) 4  $(\pi 2)$  cm<sup>2</sup>
- (3)  $(\pi 8)$  cm<sup>2</sup>
- (4)  $(\pi 2)$  cm<sup>2</sup>
- Sol. Area of shaded region = Area of sector Area of triangle

$$= \frac{\theta}{360} \pi r^2 - \frac{1}{2} \times b \times h$$

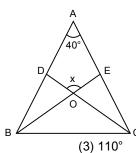
$$= \frac{90}{360} \pi (4)^2 - \frac{1}{2} \times 4 \times 4$$

$$= 4\pi - 8$$

$$= 4(\pi - 2) \text{ cm}^2$$
(2)

Ans. (2

55. In the given figure, AB = AC,  $\angle$ BAC = 40°, BE and CD are angle bisectors of  $\angle$ B and  $\angle$ C respectively. If  $\angle$ DOE = x, the value of x is



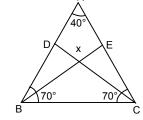
- (1) 140°
- $(2) 70^{\circ}$

 $(4) 40^{\circ}$ 

Sol.

$$\angle$$
 BAC = 40°  
 $\angle$  ABC =  $\angle$  ACB =  $\frac{180 - 40}{2}$  =  $\frac{140}{2}$  = 70°  
 $\angle$ BOC = 180° - (35 + 35)  
= 180° - 70°  
= 110°  
 $\angle$ COD = 110°. (vertically opposite angle)

Ans.



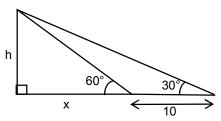
(1) 
$$5\sqrt{3}$$
 m

(2) 5 
$$(\sqrt{3}-1)$$
 m

(3) 5 
$$(\sqrt{3} + 1)$$
 m

(4) 
$$3\sqrt{5}$$
 m

Sol.



$$tan60^{\circ} = \frac{h}{x} \Rightarrow x = \frac{h}{\sqrt{3}}$$

$$tan30^{\circ} = \frac{h}{x+10}$$

$$\frac{1}{\sqrt{3}} = \frac{h}{\frac{h}{\sqrt{3}} + 10}$$

$$\left(\frac{h}{\sqrt{3}} + 10\right) \times \frac{1}{\sqrt{3}} = h$$

$$\frac{h}{3} + \frac{10}{\sqrt{3}} = h$$

$$\frac{10}{\sqrt{3}} = \frac{2h}{3}$$

$$\frac{10\times3}{2\sqrt{3}}=h\Rightarrow5\sqrt{3}$$

Ans. (1

57. A die is thrown once. If the probability of getting a number less than 4 is x and the probability of getting a number greater than 4 is y, then x - y is

$$(1) \frac{5}{6}$$

(2) 
$$\frac{1}{6}$$

(3) 
$$\frac{2}{3}$$

(4) 
$$\frac{1}{3}$$

Sol. 1,2,3,4,5,6

$$\frac{3}{6} = \frac{1}{2} = x$$

$$\frac{2}{6} = \frac{1}{3} = y$$

$$x - y = \frac{1}{2} - \frac{1}{3}$$

$$x - y = \frac{3 - 2}{6} = \frac{1}{6}$$

Ans. (2

(2) Kumbhalgarh Fort (3) Pune Fort

(4) Surat Fort.

(2) Vasudev Hari Chapekar

(4) Vinayak Damodar Savarkar

(1) Raygarh Fort

The founder of 'Abhinav Bharat' was

(1) Chandrashekhar Azad

(3) Mahatma Gandhi

Ans.

63.

Ans.

(1)

(4)

64. Ans.	Who discovered the wa (1) Henry Cort (2)	ater frame ? (2) Richard Archrite	(3) James Bridali	(4) Jethrotal	
65. Ans.		ia Movement proposal pa (2) 8 <sup>th</sup> August, 1941	assed ? (3) 8 <sup>th</sup> August, 1940	(4) 15 <sup>th</sup> August, 1942	
66.	The state of India whe	re the Kalibanga is situat	ed is		
Ans.	(1) Punjab (2)	(2) Rajasthan	(3) Gujarat	(4) Jammu & Kashmir	
67. Ans.	Triratna is related to (1) Buddhist philosophy (4)	(2) Vedic philosophy	(3) Islamic philosophy	(4) Jain philosophy	
Alis.	(4)				
68. Ans.	What is the modern na (1) Malaysia (3)	me of Champa ? (2) Thailand	(3) Vietnam	(4) Indonesia	
69. Ans.	(B) Swami Vivekanand	oy established Vedanta ( a wrote a book named S swer from the codes give	atyartha Prakash.	e wrong	
70. Ans.	Who was the king of R (1) Czar Nicholas First (3)		ussian Revolution of 191 (3) Czar Nicholas Seco		
71. Ans.	Who was the publisher (1) Bal Gangadhar Tila (3) Lala Lajpat Rai (4)		(2) Dayanand Saraswa (4) Harishchandra Muk		
72.	Which one of the follow	ring rivers does not flow	on the eastern coastal pl	ain ?	
Ans.	(1) Krishna (3)	(2) Godavari	(3) Narmada	(4) Kaveri	
73.	The plateau between E (1) Bhorat	hainsrorgarh and Bijauliy (2) Uparmaal	ya in Rajasthan is known (3) Malwa	as (4) Royalseema	
Ans.	(2)				
74. Ans.	Which one of the follow (1) Chilika (4)	ring is not a Lagoon lake (2) Pulicat	? (3) Kolleru	(4) Dal	
75. Ans.	The duration of summe (1) mid-September to r (2) December to Febru (3) March to mid-june (4) mid-June to mid-Se (3)	nid-December ary	dian Meteorological Dep	artment is	

76.	In which district of Rajasthan is Amrita Devi E (1) Jodhpur (2) Bikaner			er Sancturay deve Barmer	eloped ? (4) Ganganagar				
Ans.	(1)								
77. Ans.	The joint project of Gujarat, Madhya Pra (1) Bhakhra Nangal Project (3) Chambal Valley Project (4)			radesh and Rajasthan states is (2) Mahi Bajaj Sagar Project (4) Sardar Sarovar Project					
78.	(A) (B) (C) (D) Code: (1) (2) (3) (4)	List – I (District Ajmer Tonk Pali Bundi		C (iv) (i) (ii) (iii)	(i) (ii) (iii) (iv)  (i) (iii) (iv) (iv)	ne correct ansv List – II (Lake) Sardar Sam Ana Sagar Navalakha Tordi Sagar		iven below :	
Ans.	(2)								
79. Ans.	The pre (1) 40 - (3)		e of iron o		in magn 0 – 60 %	netite iron-ore i	is (3) 60 – 70 %	(4) 70 – 80%	
80. Ans.		one of th ttorgarh	ne followi	ng is ce (2) B		ty of Rajastha	n ? (3) Nimbahera	(4) Nagaur	
81. Ans.	The district having lowest population growth rate if (1) Nagaur (2) Bikaner (4)			owth rate in R	ajasthan during 20 (3) Bhilwara	001 – 2011 is (4) Ganganagar.			
82.			ject' by li			was started in			
Ans.	(1) 198 (2)	2		(2) 1	992		(3) 2002	(4) 2012	
83.	In which country is direct democracy found ? (1) Italy (2) Japan (3) Switzerland (4) India					(4) India			
Ans.	(3)	<b>'</b>		(2) 0	арап		(3) Switzerland	(4) Iliula	
84. Ans.	Who has the right to promulgate an ordinance when the Parliament is not in session?  (1) Supreme Court  (2) President  (3) Prime Minister  (4) Lok Sabha (2)							ær	
85. Ans.		/hose ple ne Minis			governo hief Min	or hold office ? ister	(3) President	(4) Vice-President	
86. Ans	What is (1) 62 y		ximum aç		etirement 5 years	t for judges of	Supreme Court ? (3) 60 years	(4) 70 years	

87. Ans.	The term of the Presid (1) 4 years (2)	ent of India is (2) 5 years	(3) 2 years	(4) 3 years				
88.	(1) 15 <sup>th</sup> August, 1947 (3) 26 <sup>th</sup> January, 1950	Constitution of India adop	oted ? (2) 9 <sup>th</sup> December, (4) 26 <sup>th</sup> November					
Ans.	(4)							
89.	Forced labour is prohib (1) Right to equality (3) Right against Explo	oited in which Fundament itation	al Right of India ? (2) Right to freedo (4) Right to freedo					
Ans.	(3)							
90.	By which constitutional (1) 42 <sup>nd</sup>	amendment Fundament (2) 40 <sup>th</sup>	al Duties are added in the (3) 43 rd	e Constitution of India ? (4) 45 <sup>th</sup>				
Ans.	(1)							
91.	Where is the only Cantonment Board established in Rajasthan at present?							
Ans.	(1) Nasirabad (1)	(2) Jaipur	(3) Chittorgarh	(4) Jodhpur				
92.	Panchsheel is based of (1) Buddhist philosoph		(3) Islamic philosophy	(4) Hindu philosophy				
Ans.	(1)							
93.	List - I  (A) Nagar Nigam  (B) Zilla Parishad  (C) Panchayat Samiti  (D) Gram Panchayat  Code:  ABCD  (1) (i) (ii) (iii) (iv)  (2) (iii) (i) (ii) (iv)  (3) (iv) (iii) (ii) (i)  (4) (iv) (i) (ii) (iii)	- II and Choose the corre	ect code from the give co Llst - II (i) Zilla Pramukh (ii) Pradhan (iii) Sarpanch (iv) Mayor (Mahapoura)					
Ans.	(4)							
94.	The nation of socialist economy is (1) Japan (2) China (3) France (4) United States of American							
Ans.	(2)	(_)	(6) 1 101100	(i) Cimou ciatos cir uncinca				
95.	The Kharif crop is (1) Wheat	(2) Barley	(3) Maize	(4) Gram				
Ans.	(3)							
96. Ans.	The function of comme (1) Issue of currency (3) Lender of last reso (4)		(2) Credit Control (4) Acceptance of peop	le's deposits				

97. The formula of measuring per capita income is National income Population (1) Per capita income = (2) Per capita income = Population National income Total consumption Population (3) Per capita income = (4) Per capita income = Population Total consumption Ans. (1) 98. The characteristic of Indian economy is: (1) Equality of income (2) Lack of poverty (3) Lack of unemployment (4) Low per capita income Ans. (4) 99. In India the first effort to measure poverty was done by : (1) Dadabhai Naoroji (2) D.T. Lakdawala (3) Prof. Robbins (4) Prof. Keynes Ans. (1) 100. In India the Consumer Day is celebrated on: (1) 2nd October (2) 15th August (3) 24th December (4) 26th January Ans. (3)