CGMS-24

Total Time : 150 Minutes

Total Marks : 120

SEAT NO.

INSTRUCTIONS FOR STUDENTS

Please read the following instructions carefully and then answer the questions on OMR answer sheet only

1. All questions are compulsory.

2. The blank pages are given in this question booklet for rough work.

3. You must have to submit the OMR SHEET to the invigilator upon completion of the examination.

4. Please do not mark anything against the options A, B, C, D, in the question booklet.

5. Please carefully read OMR and Hall ticket instructions.

6. It is compulsory to write the category (A, B, C, D, E) on the OMR SHEET which is given at the top corner of the question paper.

SPACE FOR ROUGH WORK

(1) The following numbers are arranged in a specific method. Write the number which will be there at the place of "?"

9, 169, 529, 1089, ?

(A) 1849   (B) 1489   (C) 1249   (D) 2399

(2) Which word will be formed after arranging the letters of the following word in alphabetical order?

Mira

(A) Aimr   (B) Amir   (C) Mira   (D) Rami

Answer the question No. 3 and 4 by considering the digit indicated with respective alphapet.

1	2	3	4	5	6	7
ગ	મ	ન	જ	વ	ર	સ

(3) What will be the total of letters used in the sentence 'ગમન જ વર' :

(A) 21   (B) 20   (C) 780   (D) 870

(4) Which among the following is true for word 'સરસવ'?

(A) 7675   (B) 7576   (C) 25   (D) 18

(5) Subtract:

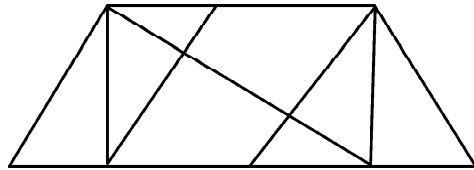$$\begin{array}{r} 90054 \\ -\ 34567 \\ \hline \end{array}$$

(A) 55487   (B) 54587   (C) 55388   (D) 55397

(6) Divide: $3321 \div 27$

(A) 132   (B) 123   (C) 131   (D) 133

(7)

How many triangles are there in the figure given above?

(A) 12   (B) 16   (C) 14   (D) 13

(8) Identify the odd one out:

(A) Milk   (B) Ghee   (C) Cheese   (D) Butter

(9) If you write all the numbers from 1 to 100 then how many times will you write number 3?

(A) 20   (B) 18   (C) 25   (D) 29

(10) Maitra is at number 21 in the attendance register of a class of 51 students so what will be her sequence if started from the last?

(A) 30   (B) 31   (C) 26   (D) 21

(11) Suggest the suitable relation on the basis of the example given below:

Gujarat : Gandhinagar : : Maharashtra : ………………

(A) Pune (B) Mumbai

(C) Nagpur (D) Goa

(12) 25 : 37 : : 49 : …………………

(A) 41 (B) 64 (C) 65 (D) 66

(13) Identify the odd one out :

(A) Tiger (B) Cow

(C) Lion (D) Wolf

(14) I am standing in the front of my house facing east. After turning left, I start walking 10 metres, after that I walk 5 metres towards right side. Then I walk 5 metres towards south and after that I walk 5 metres in the west.

Now I am in which direction of my house?

(A) North (B) West

(C) South (D) East

(15) In a code language PAINT is represented by 74128 and EXCEL is represented by 93596 then ACCEPT can be represented by which method?

(A) 455798 (B) 455978

(C) 554978 (D) 735961

(16) What will be the weight of Brinjals as shown in the given figure ?
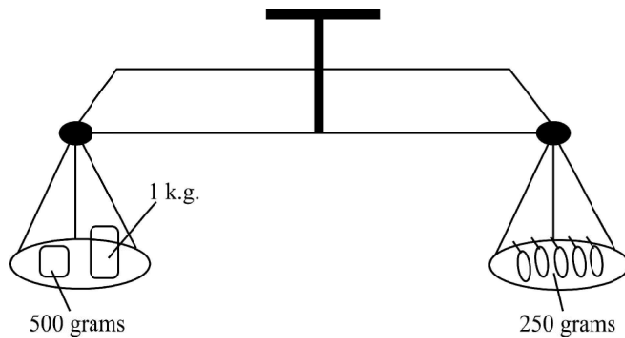
(A) 1250 grams (B) 1500 grams

(C) 1150 grams (D) 500 grams

(17) Sameer divides a cake in 4 equal parts. He gives one part to his brother. The remaining cake weighs 750 grams then what was the weight of complete cake?

(A) 800 grams (B) 1000 grams

(C) 1100 grams (D) 1200 grams

(18) Five boxes A, B, C, D, E are arranged as shown in the figure. The last box E is shifted upwards from below.
  – If the same process is repeated twice again then
  – Which box will be at the lowest position?

A
B
C
D
E
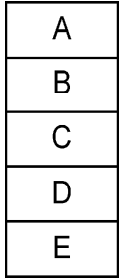
(A) B (B) A (C) C (D) D

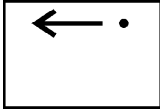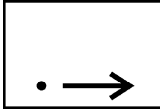(19) Which digit will be there at the place of ?
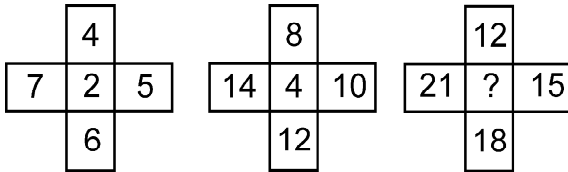
(A) 4 (B) 8 (C) 6 (D) 10

(20) Which of the following figures given in the options will match with the given figure if the figure is rotated at the 90 degrees angle?

(A)

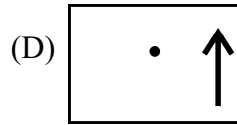(B)

(C)

(D)

(21) $\Big|$, ═══ , $\parallel\!\parallel\!\parallel$, ≡≡≡ , ………?……… (which will be the next figure)

(A) ≡≡≡ (B) ≡≡≡ (C) $\parallel\!\parallel\!\parallel\!\parallel\!\parallel$ (D) $\parallel\!\parallel\!\parallel\!\parallel$

(22)

, ………?……… (which will be the next figure)

(A)   (B)

(C)   (D)
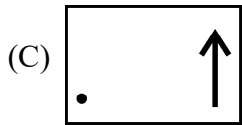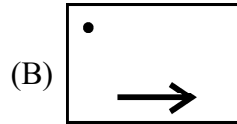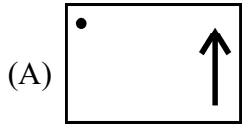
(23) Multiply:
5609
× 203
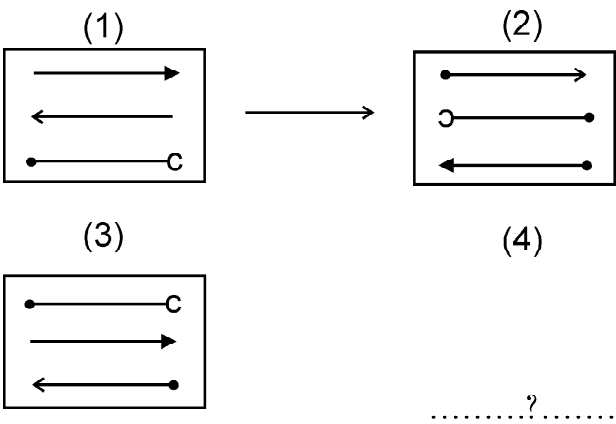
(A) 11,38,627   (B) 11,83,627

(C) 11,34,627   (D) 11,38,527

(24)

(1)   → (2)

(3)   (4) ………?………

(A)   (B)

(C)   (D)
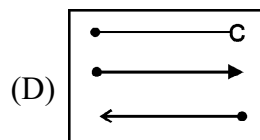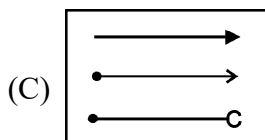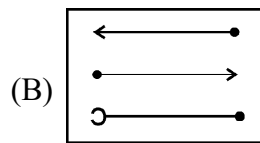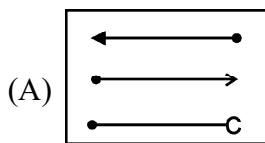
(25) Identify image of the following object placed opposite to a plane mirror from the options given below:

(A)   (B)

(C)   (D)
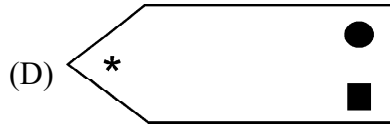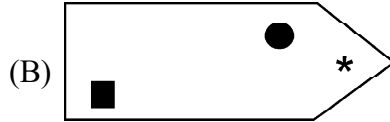
(26) Fill in the blank on the basis of the relation given below:

5 : 125 :: 3 : ………?………

(A) 81   (B) 27   (C) 9   (D) 18

(27) Identify image of the following word placed opposite to a plane mirror from the options given below:

MATHS

(A) MATHS   (B) ƧTHAM

(C) ƧHTAM   (D) ƧMTAH

(28) If your face is in the direction of rising Sun then north will be in which direction?

(A) On your right hand side   (B) On your left hand side

(C) On your backside   (D) Information is incomplete.

(29) On cutting the dotted line as shown in the given figure of a cylindrical shaped object which of the following figures will be there?

(A)   (B)   (C)   (D)
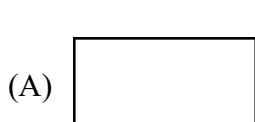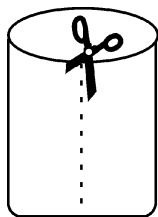
(30) Which term will be there in the following series?

1, 2, 2, 4, 8, 32, ……?………

(A) 264   (B) 128   (C) 256   (D) 246

(31)
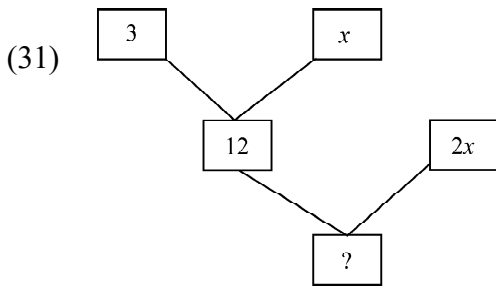
Which number will be there at the place of (?)

(A) 24   (B) 36   (C) 48   (D) 96

(32) If $\dfrac{3}{7} = \dfrac{27}{A} = \dfrac{B}{105}$ then what will be the value of A and B?

(A) A = 9, B = 45   (B) A = 9, B = 15   (C) A = 63 = B = 45   (D) A = 63, B = 15

(33) If 25 is subtracted from five times of 25 then the answer will be?

(A) Zero   (B) Five   (C) Twenty Five   (D) Hundred

(34) Fruit : Tomato : : Root : ……………

(A) Cabbage   (B) Cauliflower   (C) Carrot   (D) Cucumber

(35) NE : North-east : : SE : …………

(A) South   (B) North-west   (C) South-west   (D) South-east

● Find out the word/option which is different in the following question numbers from (36) to (39) :

(36) Novel, Newspaper, News Channel, Periodicals

(A) Novel   (B) Newspaper   (C) News Channel   (D) Periodicals
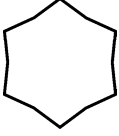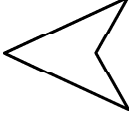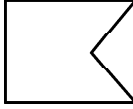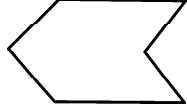
(37) Violin, Sitar, Flute, Veena

(A) Violin   (B) Sitar   (C) Flute   (D) Veena

(38) Rice, Barley, Jowar, Millet

(A) Rice   (B) Barley   (C) Jowar   (D) Millet

(39) Noisy Mischief, Hustle and Bustle, Patience, Fun

(A) Noisy Mischief   (B) Hustle and Bustle

(C) Patience   (D) Fun

(40) Which of the following alphabets is forming minimum angles than other alphabets?

(A) M   (B) N   (C) O   (D) P

(41) Which of the following statements is not true?

(A) Whole numbers are closed under addition   (B) Whole numbers are closed under subtraction

(C) Integers are closed under addition   (D) Integers are closed under subtraction

(42) What is y in $2y + \dfrac{5}{2} = \dfrac{37}{2}$?

     (A) Coefficient   (B) Power   (C) Variable   (D) Term

(43) Which of the following is a convex polygon?

     (A)   (B)   (C)   (D)

(44) Four exterior angles of a pentagon are $60^0, 50^0, 100^0, 40^0$ then what will be its fifth exterior angle ?

     (A) 30^0 (B) 50^0 (C) 90^0 (D) 110^0

(45) What will be the angle of 25% portion in a pie chart near the centre of a circle?

     (A) 25^0 (B) 45^0 (C) 90^0 (D) 180^0

(46) Which of the following numbers is not a complete square?

     (A) 1225   (B) 2585   (C) 8100   (D) 10000

(47) Length of a rectangle is $10x^2 y$ units and width is $4xy^3$ units. Its area in square units will be ?

     (A) $40x^2y^2$ (B) $40x^2y^3$ (C) $40x^3y^3$ (D) $40x^3y^4$

(48) In which statement there is no inverse proportion:

     (A) Number of workmen and time needed in completion of the task

     (B) Area of land per person and total population on the earth

     (C) Number of pen and amount needed to buy them

     (D) Time needed in traveling 100 Km and speed of vehicle

(49) If in a diagram two types of information is shown simultaneously then it is known as _____?

     (A) Picture diagram   (B) Bi-circle diagram

     (C) Perpendicular diagram   (D) Bi-perpendicular diagram

(50) What will be the cube of 19 ?

     (A) 4913   (B) 5832   (C) 6859   (D) 8000

(51) Printed price of an item is ₹ 840 and the selling price is ₹ 714 so what will be the percentage of profit?

     (A) 15%   (B) 12%   (C) 9%   (D) 16%

(52) What will be the standard form of 0.0000000934?

     (A) 9.34×10^7 (B) 9.34×10^8 (C) 9.34×10^{-8} (D) 9.34×10^{-7}

(53) On subtracting which of the following from $-5ab + 3a^2 + 2b^2$ we will get $a^2 + 2ab + b^2$?

     (A) $2a^2 - 7ab + b^2$ (B) $a^2 - 7ab - b^2$ (C) $2a^2 + 12ab + b^2$ (D) $a^2 - 2ab + 2b^2$

(54) Total surface area of a cubic box having length of 8 cm will be?

     (A) 380 cm^2 (B) 348 cm^2 (C) 360 cm^2 (D) 384 cm^2

(55) There are 50 winners in a game. Each player gets ₹ 20 as prize. If 10 winners are there then how much money each player will get?

(A) ₹ 40   (B) ₹ 60   (C) ₹ 80   (D) ₹ 100

(56) What will be the coefficient of a upon dividing $9a^2 + 18a$ by $a + 2$?

(A) 9   (B) $\dfrac{1}{2}$ (C) 18   (D) 9a

(57) In a right angled triangle ABC $\angle B = 90^0$. If AB = 6 cm, AC = 10 cm then BC = ……..cm

(A) 6   (B) 8   (C) 12   (D) 35

(58) What is the full form of GST ?
(A) Gujarat Service Tax   (B) Gujarat State Tax
(C) Goods and Service Tax   (D) Goods and Sales Tax

(59) Which of the following is a suitable option for homogeneous terms $\angle$?
(i) Terms having equal variables and equal powers are called homogeneous terms.
(ii) Equal coefficients are not compulsory.
(iii) Their coefficients should be equal.
(iv) Their variables are not equal but equal powers of variables are not compulsory.

(A) (i) and (iii)   (B) (i) and (ii)   (C) (ii) and (iv)   (D) (i) and (iv)

(60) Height of an electric pole is 16 metres. Its shadow is 10 metres in length. In the same condition if length of shadow of a tree is 15 metres then height of the tree will be?

(A) 21 metres   (B) 24 metres   (C) 32 metres   (D) 48 metres

(61) Which microorganism causes Malaria ?
(A) Bacteria   (B) Mould   (C) Parasite   (D) Virus

(62) Which element of petroleum is used to make colours?
(A) Bitumen   (B) Kerosene   (C) Diesel   (D) Paraffin wax

(63) On rubbing straw with a paper and then taking the straw closer to the pieces of the paper these pieces attract towards the straw. This event is an example of which force?
(A) Frictional force   (B) Electrostatic force
(C) Gravitational force   (D) Ligament force

(64) Distance between two parallel mirrors is 50 cm. How many images will be formed if a candle is placed between these two parallel mirrors?
(A) Infinite   (B) 100   (C) 50   (D) 1

(65) Which of the following is an antibiotic ?
(A) Sodium bicarbonate   (B) Hydrochloric acid
(C) Streptomycin   (D) Carbon dioxide

(66) In which form is Energy released during combustion ?
(A) Light   (B) Heat   (C) Temperature   (D) Both A and B

(67) Name the hormone secreted from testicles.
(A) Estrogen   (B) Testosterone   (C) Adrenaline   (D) Thyroxine

(68) Which unicellular organism reproduces through asexual reproduction ?
(A) Amoeba   (B) Paramecium   (C) Yeast   (D) Bacteria

(69) In which medium sound is not transmitted ?
(A) Air   (B) Water   (C) Cube   (D) Vacuum

(70) Transparent front part of the eye is called as ?
(A) Cornea   (B) Lens   (C) Iris   (D) Visionary

(71) The local animal of Pachmarhi tribe reserved area is _____?
(A) Rhinoceros   (B) Flying squirrel
(C) Kangaroo   (D) An owl

(72) Which of the following is a good conductor of electricity?
(A) Rubber   (B) Plastic   (C) Water   (D) A piece of wood

(73) Which of the following is not used to lower the friction between 2 parts of a machine?
(A) Oil   (B) Grease   (C) Graphite   (D) Soil

(74) Which of the following sound is inaudible to humans but audible to dogs?
(A) 25 Hz   (B) 500 Hz   (C) 15 KHz   (D) 21 KHz

(75) How many properly arranged pictures should be screened before the eyes in one second so that those pictures can look in motion?
(A) 13   (B) 10   (C) 16   (D) 4

(76) For removing weeds and making soil soft in a field it is used –
(A) Plough   (B) Hoe
(C) Equipment of sowing seeds   (D) Thresher

(77) What is the main reason of global warming?
(A) Increasing ratio of carbon dioxide in air   (B) Increasing ratio of oxygen in air
(C) Increasing ratio of nitrogen in air   (D) Increasing ratio of sulphur dioxide in air

(78) A person is having diabetes. What factors are responsible for this?
(A) His/her thyroid gland does not produce thyroxine
(B) His/her pancreas does not produce enough insulin
(C) His/her adrenal gland does not produce less adrenalin
(D) His/her pituitary gland does not produce growth hormone

(79) What is the number of oscillation per second called?
(A) Amplitude   (B) Time period
(C) Frequency   (D) Speed

(80) What will be the result of projecting light perpendicularly on a plane mirror?
(i) Angle of incidence will be 0
(ii) Angle of reflection will be 0
(iii) Angle of incidence will be 90^0
(iv) Angle of reflection will be 90^0

(A) (i) and (ii)　　　(B) (iii) and (iv)　　　(C) (i) and (iv)　　　(D) (ii) and (iii)

(81) Forecast of which of the following is not possible?
(A) Cyclone　　　(B) Earthquake　　　(C) Whirlwind　　　(D) Rain

(82) આપેલા શબ્દોમાં કયો શબ્દ 'જાતિવાચક સંજ્ઞા' છે ?
(A) ગિરનાર　　　(B) ગાય　　　(C) કબીરવડ　　　(D) પર્વતમાળા

(83) અર્થની રીતે જુદો પડતો શબ્દ કયો છે ?
(A) ચટાકો　　　(B) લિજ્જત　　　(C) જાયકો　　　(D) પમરાટ

(84) 'ઋતુઓની રાણી એટલે વર્ષા.' વાક્યમાં કયું પદ 'વિશેષણ' છે ?
(A) ઋતુઓની　　　(B) રાણી　　　(C) એટલે　　　(D) વર્ષા

(85) આપેલા શબ્દોમાં કયો શબ્દ 'ક્રિયાવિશેષણ' છે ?
(A) હોશિયાર　　　(B) સાંભળવું　　　(C) દરરોજ　　　(D) લાંબું

(86) સાચી જોડણી હોય તેવો શબ્દ કયો છે ?
(A) ઊકળાટ　　　(B) ઉદ્દેશ્ય　　　(C) મનસુબો　　　(D) નિરીક્ષણ

(87) 'ધીમા ધીમા પવનમાં ઝાડ-વેલનાં પાન ફરફરતાં થતો અવાજ' ને શું કહેવાય ?
(A) મર્મર　　　(B) લહેર　　　(C) કંપન　　　(D) ટંકારવ

(88) 'હૈયું ખોલવું' રૂઢિપ્રયોગનો અર્થ શું થાય ?
(A) માર્ગદર્શક થવું　　　(B) ખાનગી વાત કહેવી
(C) મદદ કરવી　　　(D) ફિદા થઈ જવું

(89) ઝવેરચંદ મેઘાણીનું 'ઉપનામ' શું છે ?
(A) વૈશંપાયન　　　(B) વિલાપી　　　(C) કલ્યાણયાત્રી　　　(D) વાર્તાકાર

(90) વિરુદ્ધાર્થી શબ્દોની કઈ જોડ ખોટી છે ?
(A) સુકાળ × દુકાળ　　　(B) સબળ × અબળ　　　(C) સ્વપ્ન × દુઃસ્વપ્ન　　　(D) સત્કર્મ × દુષ્કર્મ

(91) સંજ્ઞા અને તેના પ્રકારની દૃષ્ટિએ ખોટો વિકલ્પ કયો છે ?
(A) લશ્કર - સમૂહવાચક સંજ્ઞા　　　(B) સૈનિક - જાતિવાચક સંજ્ઞા
(C) પાવાગઢ - વ્યક્તિવાચક સંજ્ઞા　　　(D) ઘાસ - દ્રવ્યવાચક સંજ્ઞા

(92) શબ્દાર્થની સાચી જોડ હોય તેવો વિકલ્પ કયો છે ?
(A) વેન - જીદ　　　(B) ટીખળ - કારણ　　　(C) લ્હેરખી - નવાઈ　　　(D) આંચકો - અશાંતિ

(93) 'श्रोता' शब्द का बहुवचन क्या होता है ?
(A) श्रोते　　　(B) श्रोताओं　　　(C) श्रोतागण　　　(D) श्रोताएँ

(94) 'बच्चों की <u>प्रार्थनाएँ</u> बेकार नहीं जातीं ।' वाक्य में रेखांकित शब्द 'प्रार्थनाएँ' संज्ञा का कौन-सा प्रकार है ?
(A) जातिवाचक संज्ञा   (B) भाववाचक संज्ञा   (C) समूहवाचक संज्ञा   (D) व्यक्तिवाचक संज्ञा

(95) 'साँप लोटना' मुहावरे का सही अर्थ क्या होता है ?
(A) बहुत रोना   (B) ईर्ष्या होना   (C) लज्जित होना   (D) निराश होना

(96) 'हार की जीत' इकाई का प्रकार कौन सा है ?
(A) यात्रावृत   (B) रेखाचित्र   (C) कहानी   (D) कविता

(97) निम्नलिखित वाक्य में रेखांकित शब्द का अव्यय का कौन सा प्रकार है ?
● <u>राम के साथ</u> लक्ष्मण भी वन में गए ।
(A) संबंधबोधक अव्यय   (B) क्रिया विशेषण अव्यय
(C) समुच्चय बोधक अव्यय   (D) विस्मयादि बोधक अव्यय

(98) Red box is .... than black box.
(A) Smallar   (B) Smallest   (C) Small   (D) Smaller

(99) Find out the word having different meaning from others –
(A) giant   (B) big   (C) tiny   (D) huge

(100) Asha sings a song, ... ?
(A) does she   (B) doesn't she   (C) don't she   (D) do she

(101) .... visited the science fair ?
(A) Who   (B) When   (C) What   (D) Why

(102) .... cups of ice cream are there in this packet ?
(A) How much   (B) How   (C) How many   (D) What

(103) Arrange the story in right sequence:
1. He wants some rest.
2. He put his bag down and sat under the tree.
3. A cap seller sells many caps during the day.
4. He is tired and thirsty.
(A) 4, 3, 1, 2   (B) 3, 4, 2, 1   (C) 4, 2, 1, 3   (D) 3, 4, 1, 2

(104) સાચો સ્પેલીંગ શોધો.
(A) Advertisement   (B) Adwartisement   (C) Advertment   (D) Advrtisement

(105) Pinky : I am hungry, mummy. Can you give me some biscuits ?
Mummy : ....
(A) Here it is.   (B) Here they are.   (C) It's okay.   (D) Here you are.

(106) Mamta is a clever girl .... she got the first prize in the quiz.
(A) therefore   (B) because   (C) but   (D) or

(107) Mickey slapped Jumbo : યોગ્ય પ્રશ્નવાક્ય પસંદ કરો.
(A) Why did Mickey slapped Jumbo ?   (B) Why do Mickey slap Jumbo ?
(C) Why did Mickey slap Jumbo ?   (D) Why Mickey slapped Jumbo ?

(108) After which battle did Britishers establish themselves as owner of colony from as a mere business tribe ?
(A) Battle of Plassey (B) Battle of Buxar
(C) Mysore war (D) Maratha war

(109) Whom did Gandhiji select for Individual Satyagrah?
(A) Vinoba Bhave (B) Sardar Patel (C) Jawaharlal Nehru (D) Maulana Azad

(110) "Foreign rule and Foreign laws are unacceptable to Indians" – Who stated it ?
(A) Mahatma Gandhi (B) William Bentinck
(C) Sardar Patel (D) Warren Hastings

(111) Which British officer was assassinated by Mangal Pandey ?
(A) Dalhousie (B) Munro (C) Clive (D) Hugeson

(112) What is the percentage of fresh water on earth?
(A) 1.9% (B) 2.7% (C) 1% (D) 21%

(113) A nation where the elected representatives administer, is called –
(A) Presidential Nation (B) Democratic nation
(C) Communist Nation (D) Capitalist nation

(114) Which of the following information is incorrect regarding the public interest litigation?
(A) An individual or an organization cannot apply for it
(B) In a litigation of public interest an individual will not get benefit whereas society is benefitted
(C) High court may give punishment for misuse of this litigation
(D) Ineligible applicants may be punished by High court

(115) Which tribals used to live in the present Hazaribagh area of Jharkhand?
(A) Munda (B) Santhal (C) Kol (D) Kopa

(116) Which of the following towns was known as the Manchester of India?
(A) Ahmedabad (B) Nagpur (C) Solapur (D) Vadodara

(117) Which land is favourable for crop of Millet?
(A) Black (B) Sandy (C) Mountainous (D) Black Mud

(118) What age was fixed for Right to vote at the time of constitution drafting ?
(A) 21 years (B) 18 years (C) 16 years (D) 26 years

(119) Who can remove a judge of the Supreme Court ?
(A) Prime Minister (B) Director (C) Vice President (D) President

(120) Which state registers the highest production of cotton in India?
(A) Gujarat (B) Kerala (C) Bihar (D) Punjab

◆◆◆

SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK

પરીક્ષા પૂરી થયાબાદ **OMR** શીટ ખંડ નિરીક્ષકને પરત કર્યા બાદ જ પરીક્ષા ખંડ છોડવાનો રહેશે. તેમ કરવામાં કસૂર થયેથી શિસ્તભંગના પગલા લઇ પરીક્ષા માટે જે તે ઉમેદવારને ગેરલાયક ઠેરવવામાં આવશે.