

PARTICULARS TO BE FILLED IN BY THE CANDIDATE	
Name of the Candidate <i>Mohd Shehfaisef</i>	NCNS
Roll Number <i>707991</i>	
Application Number <i>7519991</i>	
Name of the Centre <i>Faculty of Law</i>	Question Booklet Number 14683
Centre Code <i>156</i>	
Date of the Test <i>18/09/18</i>	
Signature of the Candidate <i>Mohd Shehfaisef</i>	

Maximum Marks : 100

Time (Test Duration) : 02 hours

INSTRUCTIONS

- Complete all entries on the cover page and put your signature in the space provided.
- Use only Ball Point Pen (black/blue) for making entries in the Question Booklet and the OMR Answer Sheet.

1. The Question Booklet consists of 24 pages (including cover sheet) and contains 100 questions. Count the number of pages and questions before attempting the questions. Discrepancy, if any, must immediately be brought to the notice of the Invigilator.
2. The time (test duration) as specified above shall be reckoned from the moment of distribution of the Question Booklets.
3. Blank space in the Question Booklet may be used for rough work.
4. Each question is followed by four alternative answers. Select only one answer, which you consider as the most appropriate. Shade the relevant circle against the corresponding question number on the OMR Answer Sheet. Selecting more than one answer for a question, even if one of the selected answers is correct, would result in its being treated as an incorrect answer.
5. Answers should ONLY be marked on the OMR Answer Sheet. No answer should be written on the Question Booklet.
6. The candidate is required to separate the original OMR Answer Sheet and its carbonless copy at the perforation carefully after the Admission Test. He/She shall hand over the original OMR Answer Sheet and the Admit Card to the Invigilator before leaving his/her seat and take with him/her the carbonless copy of the OMR Answer Sheet and the Question Booklet.
Failure to hand over the original OMR Answer Sheet and the Admit Card will result in the cancellation of the candidature.

1- ریو ادا جیل میں گاندھی جی نے کون سی زبان سیکھی؟

- (a) بنگالی
(b) اردو
(c) فارسی
(d) بھونچ پوری

2- ہاکی کے جادوگر دھیان چند کا انتقال کب ہوا؟

- (a) ۳ دسمبر ۱۹۷۹ء
(b) ۴ جولائی ۱۹۸۰ء
(c) ۵ اکتوبر ۱۸۸۵ء
(d) ۳ اگست ۱۹۹۷ء

3- دقیا نوی لفظ کے کیا معنی ہیں؟

- (a) بگڑا ہوا
(b) بہت پرانا
(c) دیہاتی
(d) عقل مند

4- علامہ اقبال اردو کے بہت بڑے

- (a) ناول نگار تھے
(b) نثر نگار تھے
(c) افسانہ نگار تھے
(d) شاعر تھے

5- حاضر کا متضاد ہے

- (a) پیش
(b) غائب
(c) حواضر
(d) دور

11. निम्नलिखित में से कौन सा शब्द सही है ?

(a) प्रदर्शिनी

~~(b) प्रदर्शनी~~

(c) प्रदृशनी

(d) प्रंदशनी

12. 'अत्याचार' में लगा उपसर्ग है -

(a) अ

(b) अति

(c) अत्य

~~(d) अत्या~~

13. 'दूध' का पर्यायवाची है -

(a) अमृत

~~(b) क्षीर~~

(c) अम्बु

(d) पेय

14. 'घड़ों पानी पड़ना' मुहावरे का अर्थ है -

(a) पानी डालना

~~(b) शर्मिंदा होना~~

(c) घड़े में पानी भरना

(d) गीला होना

15. 'जाति न पूछो साधु की, पूछ लीजिए ज्ञान' पंक्ति किस कवि की है -

- (a) सूरदास
- (b) कबीरदास
- (c) तुलसीदास
- (d) मलूकदास

16. 'भगवान के डाकिए' कविता किसके द्वारा रचित है -

- (a) दिनकर
- (b) महादेवी
- (c) निराला
- (d) कबीर

17. रामचरितमानस की रचना किस भाषा में हुई है?

- (a) ब्रज भाषा
- (b) अवधी
- (c) भोजपुरी
- (d) खड़ी बोली

18. हिन्दी दिवस कब मनाया जाता है ?

- (a) 15 अगस्त
- (b) 25 जून
- (c) 14 सितम्बर
- (d) 25 जनवरी

19. The synonym of the word **jubilant** is

- (a) Intelligent
- (b) Beautiful
- (c) Funny
- ~~(d) Joyful~~

20. The antonym of the word **timid** is

- ~~(a) Bold~~
- (b) Coward
- (c) Fearful
- (d) Melancholy

21. I _____ the computer. It is all right now.

- ~~(a) have repaired~~
- (b) has repaired
- (c) was repaired
- (d) am repaired

22. The servant always complies _____ the wishes of his master.

- (a) to
- (b) with
- (c) in
- ~~(d) towards~~

23. Select the passive form of the sentence "The boys were playing cricket."

- (a) Cricket had been played by the boys.
- (b) Cricket has been played by the boys.
- (c) Cricket was played by the boys.
- ~~(d) Cricket was being played by the boys.~~

24. I enjoy visiting many different countries _____ I wouldn't want to live anywhere else but India.

(a) and

(b) but

(c) or

(d) so

25. A bomb scare _____ a delay of the flight.

(a) caused

(b) cause

(c) was caused

(d) had causing

26. We often go fishing _____ the river bank.

(a) toward

(b) inside

(c) along

(d) with

27. The shop _____ at 9 o'clock every morning.

(a) open

(b) opens

(c) is opening

(d) opened

28. The idiom "cut corners" means

(a) To cut the corner of a drawing

(b) When something is done badly to save money

(c) To take on a task that is way too big

(d) To turn sharply

[P.T.O.]

29. "Cycling is fun." What is **cycling** in the sentence?
- (a) Infinitive
 - (b) Gerund
 - ~~(c) Perfect participle~~
 - (d) Adjective

30. Which of the following is **incorrectly** spelt?
- (a) receive
 - ~~(b) difraud~~
 - (c) believe
 - (d) deceive

31. A four digit number $abcd$ is divisible by 11 if only
- (a) $(a + b) - (c + d)$ is divisible by 11
 - (b) $(a - c) - (b + d)$ is divisible by 11
 - (c) $(a - c) - (b - d)$ is divisible by 11
 - (d) $(b + d) - (a + c)$ is divisible by 11

32. $(18x^3 + 48x^2 + 32x) \div (3x + 4)$ is equal to
- ~~(a) $6x^2 + 8x$~~
 - (b) $2x(4x + 3)$
 - (c) $9x^2 + 4x$
 - (d) None of these

$$\begin{array}{r} 18x^3 + 48x^2 + 32x \\ \underline{3x + 4} \\ 18x^3 + 36x^2 + 32x \\ \underline{12x^2 + 32x} \\ 24x^2 + 32x \end{array}$$

33. Maximum interior angle possible for a regular polygon is
- (a) 50°
 - ~~(b) 60°~~
 - (c) 70°
 - (d) 80°

$$\begin{array}{r} 3x + 4 \overline{) 18x^3 + 48x^2 + 32x} \\ \underline{18x^3 + 36x^2 + 32x} \\ 12x^2 + 32x \\ \underline{12x^2 + 32x} \\ 0 \end{array}$$

34. The area of a trapezium-shaped field is 480 m^2 , the distance between two parallel sides is 15 m and one of the parallel side is 20 m. Find the other parallel side

- (a) 20 m
- ~~(b) 44 m~~
- (c) 54 m
- (d) 64 m

$$\frac{1}{2} \times 15 (20 + x) = 480$$

$$\frac{1}{2} \times 15 \times 15x = 480$$

$$\therefore 15x = \frac{480 \times 2}{15} = 128$$

$$x = \frac{128}{15} = 8.53$$

35. An aquarium is in the form of a cuboid whose external measures are $80 \text{ cm} \times 30 \text{ cm} \times 40 \text{ cm}$. The base, side face and back face are to be covered with a coloured paper. The area of the coloured paper required is

- (a) 3200 cm^2
- (b) 4600 cm^2
- (c) 7500 cm^2
- ~~(d) 8000 cm^2~~

$$2(80 + 30) \times 40 = 2 \times 110 \times 40 = 220 \times 40 = 8800$$

$$2 \times 80 \times 40 = 2 \times 3200 = 6400$$

$$2 \times 30 \times 40 = 2 \times 1200 = 2400$$

$$8800 + 6400 + 2400 = 17600$$

36. A rectangular piece of paper $11 \text{ cm} \times 4 \text{ cm}$ is folded without overlapping to make a cylinder of height 4 cm. The volume of the cylinder so formed is

- (a) 9.6 cm^3
- (b) 22.5 cm^3
- ~~(c) 38.5 cm^3~~
- (d) 154 cm^3

$$2\pi r$$

$$\frac{44}{7} = \frac{22r}{7}$$

$$22r = 44$$

$$r = 2$$

$$V = \pi r^2 h = \pi \times 2^2 \times 4 = 4\pi \times 4 = 16\pi = 50.24$$

37. Express 4^{-3} as a power with the base 2

- (a) 2^{-3}
- (b) 2^{-4}
- ~~(c) 2^{-5}~~
- (d) 2^{-6}

$$4^{-3} = (2^2)^{-3} = 2^{-6}$$

[P.T.O.]

38. Simplify $\left\{\left(\frac{1}{3}\right)^{-2} - \left(\frac{1}{2}\right)^{-3}\right\} + \left(\frac{1}{4}\right)^{-2}$

(a) 16

~~(b) $\frac{1}{16}$~~

(c) 1

(d) None of the above

Handwritten work for Q38:
 $9 - 8 \div 16$
 $(9 - 8) \div (4)^2 = 8$
 $\frac{1}{16}$

39. If the weight of 12 sheets of thick paper is 40 grams, how many sheets of the same paper would weight $2\frac{1}{2}$ kilograms?

(a) 450

(b) 550

(c) 650

~~(d) 750~~

Handwritten work for Q39:
 $2.5 \times 1000 = 2500$
 $40 = 12$
 $1 = \frac{12}{40} \times 2500$
 750
 $\frac{25}{40} \times 2500$
 $\frac{25}{40} \times 2500 = 1562.5$

40. A machinery worth Rs 10500 depreciated by 5%. Its value after one year will be

(a) Rs 9890

~~(b) Rs 9975~~

(c) Rs 9000

(d) Rs 9750

Handwritten work for Q40:
 $\frac{95}{100} \times 10500$
 $\frac{105}{95}$
 $\frac{525}{9450}$
 9975

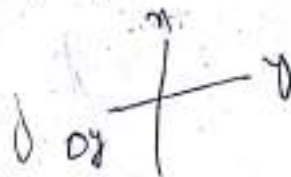
41. The coordinates of a point lying on y-axis are

(a) (0, 0)

~~(b) (0, y)~~

(c) (x, 0)

(d) (x, y)



Handwritten work for Q41:
 $8 - 2 \times 100$
 1080
 8

42. Find the value of m when $\frac{5^m + 5^{-3}}{5^2} = 5^3$

- ~~(a) 2~~
- (b) 4
- (c) 6
- (d) 8

Handwritten work for Q42:
 $\frac{5^m + 5^{-3}}{5^2} = 5^3$
 $5^m + 5^{-3} = 5^3 \times 5^2 = 5^5$
 $5^m = 5^5 - 5^{-3}$
 $5^m = 5^5 - \frac{1}{5^3}$
 $5^m = \frac{5^8 - 1}{5^3}$
 $m+1 = 3$
 $m = 2$

43. Two coins are tossed simultaneously. What is the probability of getting one head and one tail?

- ~~(a) $\frac{1}{2}$~~
- (b) $\frac{1}{4}$
- (c) $\frac{2}{3}$
- (d) $\frac{3}{4}$

Handwritten work for Q43:
 $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

44. If the points $(1, 3)$, $(-1, 3)$, $(2, 3)$, $(-4, 3)$ and $(8, 3)$ are joined together, then the resulting line will be

- ~~(a) parallel to x-axis~~
- (b) parallel to y-axis
- (c) parallel to both x and y-axis
- (d) passing through the origin



45. If $A : B = 3 : 4$ and $B : C = 5 : 6$, then $A : C$ is

- (a) 5 : 9
- (b) 3 : 4
- (c) 1 : 2
- ~~(d) 5 : 8~~

Handwritten work for Q45:
 $\frac{3}{4} \times \frac{5}{6} = \frac{15}{24} = \frac{5}{8}$

[P.T.O.]

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- Pythagorean triplet in which one member is 12 is
- (a) 12, 32, 35
 - ~~(b) 12, 35, 37~~
 - (c) 12, 36, 38
 - (d) 12, 37, 39

$2m - m$
 2
 6
 $36 - 1$
 35
 $6 + 1$

47. A shopkeeper purchased 200 bulbs for Rs 10 each. However, 5 bulbs were fused and had to be thrown away. The remaining bulbs were sold at Rs 12 each. The gain or loss % is
- (a) 10 %
 - (b) 13 %
 - (c) 15 %
 - ~~(d) 17 %~~

~~1250~~
 $\frac{12}{370}$
 $\frac{195}{2340}$
 $\frac{17}{240} \times 100$
 $\frac{2000}{50}$
 $\frac{195}{1150}$
 $\frac{195}{1150}$
 $\frac{195}{1150}$
 $\frac{390}{2340} \times 100$

48. Factorisation of $(2a - b)^2 + 2(2a - b) - 8$ would be
- ~~(a) $(2a - b + 4)(2a + b - 2)$~~
 - (b) $(a - 2b + 2)(2a + b - 4)$
 - (c) $(2a - b + 4)(2a - b - 2)$
 - (d) $(2a + b - 4)(2a - b + 2)$

49. If $\sqrt{7x - 8} = -x$, then value of x is

~~(a) $\sqrt{7x - 8}$~~
~~(b) $-\frac{1}{2}$~~
~~(c) $\frac{1}{2}$~~
~~(d) 3~~
 $-x = \frac{2\sqrt{7x-8}}{2}$
 $-x = \frac{\sqrt{7x-8}}{1}$
 $\sqrt{7x-8} = -x$
 $(\sqrt{7x-8})^2 = (-x)^2$
 $7x - 8 = x^2$
 $7x - 2 = -x$
 $7x - 2 = -x$

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50. If two medians of a triangle are congruent, the triangle is
- (a) an equilateral triangle
 - (b) an isosceles triangle
 - (c) an obtuse angled triangle
 - (d) a scalene triangle



51. The point at which two co-ordinate axis meet is called
- (a) ordinate
 - (b) abscissa
 - (c) quadrant
 - (d) origin

52. In a triangle, centroid always divides medians in the ratio of

- (a) 2:1
- (b) 3:1
- (c) 4:1
- (d) 5:1

$$\frac{2}{3} \times \frac{3}{2}$$

$$\frac{2}{3}$$

$$\begin{aligned} &(\sqrt{x-1})(\sqrt{x+1}) + 1 = 0 \\ &\underline{\underline{\sqrt{x-1} + 1 = \sqrt{x+1}}} \end{aligned}$$

53. If $(\sqrt{x-1}) - (\sqrt{x+1}) + 1 = 0$, then $4x$ equals to

- (a) 0
- (b) $4\sqrt{-1}$
- (c) $1\frac{1}{5}$
- (d) 5

54. A pit 5 m long and 3.5 m wide is dug to a certain depth. If the volume of earth taken out of it is 14 m^3 , what is the depth of the pit?

- (a) 80 cm
- (b) 8 m
- (c) 8 dm
- (d) 80 mm

$$\begin{aligned} 5 \times 3.5 \times \text{depth} &= 14 \times 28 \\ 16.5 \times \text{depth} &= 140 \\ \frac{140}{16.5} &= \text{depth} \\ \frac{1400}{165} &= \text{depth} \\ \frac{280}{33} &= \text{depth} \end{aligned}$$

55. The difference between two whole numbers is 66. The ratio of the two numbers is 2:5. What are the two numbers?

- (a) 22, 100
- (b) 22, 110
- (c) 44, 100
- (d) 44, 110

$$\frac{110}{44} = \frac{5}{2}$$

$$2x - 5x = 66$$

$$-3x = 66$$

$$x = -22$$

56. Six pipes are required to fill a tank in 1 hour 20 minutes. How long will it take to fill the tank if only 5 pipes of the same type are used?

- (a) 1 hour 16 minutes
- (b) 1 hour and 26 minutes
- (c) 1 hour 36 minutes
- (d) 2 hours 36 minutes

$$6 = 80$$

$$5 = 136$$

$$\frac{80}{6} \times 5 = \frac{80 \times 5}{6} = \frac{400}{6} = 66 \frac{4}{6} = 66 \frac{2}{3}$$

57. Two times a number is a 100% increase in the number. If we take half the number what would be the decrease in per cent?

- (a) 100%
- (b) 75%
- (c) 50%
- (d) 25%

58. The product of two rational numbers is $\frac{-28}{81}$. If one of them is $\frac{-2}{3}$, then the other number is

- (a) 14/17
- (b) 13/27
- (c) 14/27
- (d) 11/28

$$-\frac{2}{3} \times x = \frac{-28}{81}$$

$$-162x = -84$$

$$x = \frac{84}{162} = \frac{14}{27}$$

59.

A trader buys certain items at 32 % off the list price and he wants to make a profit of 25 % after allowing a discount of 20 %. At what per cent above the list price should he mark the items?

- (a) 4.15 %
- (b) 5.25 %
- (c) 6.15 %
- (d) 6.25 %

$$\begin{array}{r} 450 \\ 75 \\ \hline 1200 \end{array}$$

$$\begin{array}{r} 7500 \\ 1200 \\ \hline 1700 \end{array}$$

$$\frac{1677500 \times 1}{1000}$$

60.

Shyam deposited in a bank Rs 7500 for 6 months at the rate of 8 % interest compounded quarterly. Find the amount he received after 6 months.

- (a) Rs 6800
- (b) Rs 6803
- (c) Rs 7800
- (d) Rs 7803

$$7500 \times \left(1 + \frac{8}{100}\right)^2$$

$$7500 \times \left(1 + \frac{8}{100}\right)^2$$

$$7500 \times \frac{108}{100} \times \frac{108}{100}$$

$$7500 \times 1.1664$$

$$8748$$

61.

Ram buys a refrigerator for Rs 4000 on credit. The rate of interest for the first year is 5 % and the second year is 15 %. How much will it cost him if he pays the amount after two years?

- (a) Rs 3830
- (b) Rs 4830
- (c) Rs 5830
- (d) Rs 6830

$$\frac{4000 \times 5 \times 1}{100} = 200$$

$$4000 + 200 = 4200$$

$$\frac{4200 \times 15 \times 1}{100} = 630$$

$$4200 + 630 = 4830$$

62.

Three cubes of sides 3 cm, 4 cm, and 5 cm are melted and a new cube is formed. Find the side of the new cube

- (a) 3 cm
- (b) 4 cm
- (c) 5 cm
- (d) 6 cm

$$3^3 + 4^3 + 5^3 = 27 + 64 + 125 = 216$$

$$6^3 = 216$$

$$6^2 = 36$$

$$6 \times 36 = 216$$

63. The median and the mean of the data given below are

2, 5, 5, 7, 4, 2, 3, 8, 3, 7

- (a) 5.5 and 4.5
- (b) 4.5 and 4.5
- (c) 5.5 and 4.6
- (d) 4.5 and 4.6

Handwritten notes for Q63: $2, 2, 3, 3, 4, 5, 5, 7, 7, 8$. The number 5 is circled. Below it, 4.5 is written.

64. Present ages of Kuldeep and Asad are in the ratio 5:8. Five years ago this ratio was 4:7. After 10 years, the ages of Kuldeep and Asad will be

- (a) 10 years, 14 years
- (b) 15 years, 28 years
- (c) 30 years, 48 years
- (d) 35 years, 50 years

Handwritten notes for Q64: A box containing $\frac{5-5+10}{8-5+10}$.

Handwritten notes for Q64: $\frac{5+5}{8+5} = \frac{4}{7}$, $35+45 = 27+20$, $3x = 15$, $x = 5$.

65. In the following data, the mode is

5, 3, 9, 5, 3, 2, 8, 9, 9, 9, 7, 6, 5, 5, 3, 2, 7, 6, 8, 9

- (a) 5
- (b) 9
- (c) 2
- (d) 7

Handwritten notes for Q65: $2, 2, 3, 3, 5, 5, 5, 5, 7, 7, 7, 8, 8$. The number 9 is circled. Below it, $5+10 = 15$ and $7, 7, 7, 7, 9$ are written.

66. Distance covered by a man walking for 12 minutes at a speed of 3.5 km per hour is

- (a) 1.7 km
- (b) 0.07 km
- (c) 0.7 km
- (d) 1.07 km

Handwritten notes for Q66: $60 \times 3.5 = \frac{3.5}{60}$, $\frac{5n-5}{5n-5} = \frac{4}{7}$, $35n$, $\frac{0.7}{3.5} = \frac{2}{10}$.

67. _____ crops are usually sown with the beginning of the first rains in July during the south-west monsoon season.
- (a) Rabi
 - (b) Kharif
 - (c) Mansal
 - (d) None of these
68. All living cells and many of the tiny organelles internal to cells are bounded by thin membranes. These membranes are composed primarily of
- (a) phospholipids
 - (b) amino acid
 - (c) gelatin
 - (d) carbohydrates
69. The number of nuclei present in zygote is
- (a) zero
 - (b) one
 - (c) two
 - (d) three
70. Insulin is a hormone produced by the _____ that allows your body to use sugar (glucose) from carbohydrates in the food that you eat for energy or to store glucose for future use.
- (a) liver
 - (b) pancreas
 - (c) kidney
 - (d) brain
71. The human skeleton is composed of around _____ bones at birth.
- (a) 210
 - (b) 270
 - (c) 310
 - (d) 370

72. Liquefied petroleum gas (LPG or LP gas) used in Indian homes is a mixture of
- (a) methane and ethane
 - (b) propane and butane
 - (c) methane and butane
 - (d) ethane and butane
73. Non-metal oxides such as _____ and _____ are responsible for acid rain.
- (a) sulphur oxide and hydrogen peroxide
 - (b) sulphur dioxide and nitrogen oxide
 - (c) carbon monoxide and nitrogen oxide
 - (d) carbon monoxide and hydrogen peroxide
74. _____ is a group of living organisms consisting of similar individuals capable of exchanging genes or interbreeding.
- (a) Family
 - (b) Species
 - (c) Genus
 - (d) Order
75. _____ are tiny particles in the air that reduce visibility and cause the air to appear hazy when levels are elevated.
- (a) PM1.5
 - (b) PM2.5
 - (c) PM3.5
 - (d) PM4.5
76. In eukaryotes, all the space inside the cell membrane but outside the nucleus is the gel-like
- (a) xylem
 - (b) enzyme
 - (c) cytoplasm
 - (d) phloem sap

77. The small spherical body inside the nucleus is called
- (a) mitochondria
 - (b) chromatin
 - (c) nucleolus
 - (d) chromosome
78. Which of the following is part of female reproductive system?
- (a) Testes
 - (b) Uterus
 - (c) Scrotum
 - (d) Prostate
79. Velocity of the sound is greatest in
- (a) metallic solid
 - (b) liquid
 - (c) gas
 - (d) vacuum
80. Which of the following is the best conductor of electricity?
- (a) gold
 - (b) silver
 - (c) copper
 - (d) palladium
81. The _____ cells in the retina of the human eye function best in relatively bright light.
- (a) cone
 - (b) rod
 - (c) sclera
 - (d) uvea

82. Which of the following metal is not extracted by electrolysis?
(a) Aluminium
(b) Iron
(c) Sodium
(d) Potassium
83. Louis Pasteur and Émile Roux developed the first _____ vaccine.
(a) smallpox
(b) rabies
(c) AIDS
(d) tuberculosis
84. Kanha National Park is located in
(a) Andhra Pradesh
(b) Gujarat
(c) Madhya Pradesh
(d) Rajasthan
85. Which of the following hormone is essential for the growth and development of all vertebrates including humans?
(a) Estrogen
(b) Thyroxine
(c) Prolactin
(d) Glucagon
86. _____ is a process by which nitrogen in the Earth's atmosphere is converted into ammonia (NH_3) or other molecules available to living organisms.
(a) Fermentation
(b) Nitrogen fixation
(c) Nitrosis fixation
(d) Photosynthesis

87. Polyester is a category of polymers that is made up of repeating units of
- (a) Ethane
 - (b) Ester
 - (c) Ethanol
 - (d) Pentene
88. When we press the bulb of a dropper with its nozzle kept in distilled water, air in the dropper is seen to escape in the form of bubbles. Once we release the pressure on the bulb, distilled water gets filled in the dropper. The rise in dropper is due to
- (a) gravity of the earth
 - (b) special property of the rubber of the bulb and distilled water
 - (c) atmospheric pressure
 - (d) none of these
89. The image formed by a plane mirror is always
- (a) virtual, upright, and of smaller shape and size as the object it is reflecting.
 - (b) real, upright, and of larger shape and size as the object it is reflecting.
 - (c) virtual, upright, and of same shape and size as the object it is reflecting.
 - (d) real, upright, and of same shape and size as the object it is reflecting.
90. Which of the following has the highest calorific value and may be considered as the best fuel but is highly inflammable and difficult to store and transport?
- (a) Methane
 - (b) Hydrogen
 - (c) CNG
 - (d) LPG

91. The pressure produced when a force of 50 N is applied over an area of 10 m² is

(a) $2\frac{1}{5} \text{ N/m}^2$

(b) $3\frac{1}{5} \text{ N/m}^2$

~~(c) 5 N/m^2~~

(d) $5\frac{1}{5} \text{ N/m}^2$

$$\frac{F}{A}$$

$$\frac{50}{10}$$

92. The pressure exerted by a fluid

(a) decreases with depth

~~(b) increases with depth~~

(c) does not change with depth

(d) depends upon the liquid

93. Ball bearings are used to

(a) increase friction

~~(b) decrease friction~~

(c) keep friction constant

(d) none of these

94. When electrolysis of water is carried out, water is decomposed into

(a) oxygen gas only

(b) hydrogen gas only

~~(c) both hydrogen and oxygen~~

(d) oxygen gas and copper

95. A point at ground level below which an earthquake originates is called

~~(a) epicentre~~

(b) richter

(c) fault

(d) volcano

96. A kaleidoscope consists of three mirrors set at an angle of _____ to form multiple images of the object in front of it.

- (a) 30 degrees
- (b) 45 degrees
- ~~(c) 60 degrees~~
- (d) 90 degrees

97. Which of the following is primarily used in preparation of smoke screens?

- (a) oxygen
- (b) copper
- (c) nitrogen
- ~~(d) phosphorus~~

98. An instrument used to measure the pressure of liquids at different depths is

- ~~(a) a barometer~~
- (b) a manometer
- (c) a hygrometer
- (d) an anemometer

99. Loudness of sound is determined by

- (a) time period
- ~~(b) amplitude of vibrating body~~
- (c) frequency of the vibrating body
- (d) none of these

100. The electrical resistance of a circuit is defined as

- (a) product of voltage applied to the electric current which flows through it
- (b) ratio of voltage applied to the electric current which flows through it
- ~~(c) difference between voltage applied and electric current which flows through it~~
- (d) none of these

6- ۱۸۵۷ء میں کون سا واقعہ پیش آیا؟

- (a) آزادی کی پہلی جنگ ہوئی
(b) پہلی عالمی جنگ ہوئی
(c) ہندوستان آزاد ہوا
(d) دوسری جنگ عظیم ہوئی

7- حکام کا واحد ہے؟

- (a) حاکم
(b) حکم
(c) حکماء
(d) حکیم

8- اچھا انسان میں انسان کیا ہے؟

- (a) اسم
(b) صفت
(c) کلمہ
(d) ضمیر

9- سرسید کہاں کے رہنے والے تھے؟

- (a) مراد آباد
(b) آگرہ
(c) علی گڑھ
(d) دلی

10- لفظ ”اعتراف“ کا صحیح معنی کیا ہے؟

- (a) خوش ہونا
(b) تسلیم کرنا
(c) غور کرنا
(d) سنا