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UP B.Ed
Previous Year Paper
2018



UTTAR PRADESH

B.Ed. Joint Entrance Exam

Solved Paper 2018

Paper I

Part I : General Knowledge

Codes

Column-I (Disease)	Column-II (Cause)
i. Ringworm	a. Protozoa
ii. Malaria	b. Bacteria
iii. Cholera	c. Fungi
iv. Anemia	d. Iron deficiency

Codes	i	ii	iii	iv
(a)	c	d	b	a
(b)	c	a	d	b
(c)	c	a	b	d
(d)	c	b	d	a

Part II : English Language

51. Select the correct transformation of the voice.

I know him.

(a) He is known to me
(b) He has been known to me
(c) He is known by me (d) He was known to me

52. Find out the figure of speech in the following sentence.

From the cradle to the grave

(a) Litotes (b) Transferred Epithet
(c) Metonymy (d) Synecdoche

53. Substitute one word for 'fear of heights'.

(a) Aerophobia (b) Algophobia
(c) Agoraphobia (d) Acrophobia

54. Fill in the blank with the word that creates the most logical sentence.

..... our low annual fee, you will receive a 20% discount if you sign up this week.

(a) In spite of (b) In addition to
(c) Because of (d) Due to

55. Choose the best alternative to replace the underlined word.

Ram wants to discuss a problem with his supervisor.

(a) talk over (b) talk through
(c) talk up (d) look up

56. Choose the appropriate word to complete the following sentence.

The railway line runs hill and plain.

(a) over (b) in (c) at (d) on

57. Choose the appropriate word to complete the following sentence.

Ram is my son.

(a) old (b) oldest (c) eldest (d) older

58. In which figure of speech as, so, like words are used?

(a) Fable (b) Allegory (c) Metaphor (d) Simile

59. What is one word for the following sentence?

Give tit for tat.

(a) Voluntary (b) Retaliate
(c) Forgery (d) Cemetery

60. Mark the word which is different in meaning in the group.

(a) Behold (b) Think (c) See (d) Look

61. Mark the correct meaning of the word.

'Pioneer'

(a) One who travels from one place to another
(b) One who leads others in any field
(c) One who prints well
(d) One who writes against the establishment

62. Choose the correct option of indirect speech.

Direct Speech : She said, "I do not wish to see any of you; go away."

Indirect Speech

(a) She said that she did not wish to see any of them and ordered them to go away
(b) None of these
(c) She said that I do not wish to see any of them and ordered them to go away
(d) She said that I do not wish to see any of you and ordered them to go away

63. Complete the following proverb.

While there is life, there is

(a) hope (b) None of these
(c) happiness (d) wealth

64. Choose the correct meaning of the proverb.

To save one's face

(a) to oppose (b) to hide oneself
(c) to evade disgrace (d) to say plainly

65. Fill in the blank with appropriate word.

He left the book the telephone.

(a) at (b) beside (c) besides (d) around

66. Choose the appropriate one word substitute.

That which can be carried

(a) Portable (b) Bearable
(c) Handy (d) Light

67. Replace the underlined word with suitable alternative.

Kalidas is the greatest of all other dramatists.

(a) between other
(b) in other
(c) among all the
(d) in all the other

68. Select the correct sentence in Indirect speech.

The father said to her, "May you succeed."

(a) The father told her that you might succeed
(b) The father wished her to succeed
(c) The father told her that you may succeed
(d) The father asked her to succeed

69. Which figure of speech is used in the following sentence?

All the world's a stage.

(a) Metaphor (b) Euphemism
(c) Metonymy (d) Metalepsis

70. Complete the following sentence by filling in a suitable Article.

..... sugar is bad for your teeth.

(a) The (b) None of these
(c) A (d) An

71. Fill in the blank.

A group of zebras is called a

(a) pride (b) pack (c) dazzle (d) streak

72. Choose the correct option from the following.

'Under wraps' means

(a) in a small place (b) in a wrapper
(c) in secret (d) with difficulty

73. Pick out antonym of the word.

'Corpulent'

(a) thin (b) curved (c) burly (d) sluggish

74. Mark the correct sentence.

(a) It is in the middle of you and I

(b) It is among you and me

(c) It is between you and me

(d) It is between you and I

75. Mark the correct sentence.

(a) One must not praise one self

(b) All the sentences are incorrect

(c) One should not praise his self

(d) One should not once praise himself

76. Mark the correct meaning of the idiom.

Break into

(a) enter by force (b) to be in pieces
(c) jail (d) stop suddenly

77. Mark the correct meaning of the idiom.

'Make up one's mind'

(a) persuade someone (b) remind
(c) retire (d) resolve

78. Mark the correct use of narration.

(a) I notified that I had changed my address

(b) I notified to the bank that I had changed my address

(c) I notified with the bank that I had changed my address

(d) I notified the bank that I had changed my address

79. Mark the correct antonym of the word

'Careful'

(a) discareful (b) careless
(c) caring (d) carefree

80. What is the word 'lovely' in the following sentence?

Sita is my **lovely** daughter.

(a) Adjective (b) None of these
(c) Noun (d) Adverb

81. Choose the suitable word to complete the sentence.

The mother ordered her son to remain while she ran to get milk.

(a) stationed (b) None of these
(c) stationary (d) stationery

82. What is affirmative of the following sentence?

None but the brave deserve the fair.

(a) The brave oneself deserve the fair
(b) None of these
(c) The brave alone deserve the fair
(d) The brave deserves the fair

83. Complete the hyphenated compound word.

..... witted
(a) Quick (b) Far (c) Over (d) Under

84. Choose the synonym of the word 'astute' from the following.

(a) ugly (b) dull
(c) intelligent (d) beautiful

85. Fill in the blank with appropriate conjunction.

The harvest truly is plenteous, the labourers are few.

(a) so (b) and
(c) but (d) yet

86. It is 10 O'clock my watch.

(a) by (b) on (c) in (d) at

87. June 2016 to March 2017 I was in France.

(a) From (b) None of these
(c) Around (d) Between

88. Choose the appropriate one word substitute.

Repetition of consonant sound

(a) Assonance (b) Pun
(c) Rhyme (d) Alliteration

89. Fill in the blank with appropriate word.
Rahul had a an pain in his stomach.
(a) great (b) acute
(c) high (d) deep

90. Find out the mis-spelt word.
(a) Excess (b) Laudable
(c) Miscreant (d) Seperete

91. Identify the underlined word in the following sentence.
He enjoyed sleeping in the open air.
(a) Infinitive (b) None of these
(c) Gerund (d) Participle

92. Which degree is used in the following sentence?
This boy is the cleverest of all.
(a) Comparative Degree
(b) None of them
(c) Positive Degree
(d) Superlative Degree

93. Identify the underlined word in the following sentence.
Her greatest pleasure is to dance.
(a) Participle (b) None of these
(c) Gerund (d) Infinitive

94. Select correct word to complete the following sentence.
Take heed you fall.
(a) lest (b) that
(c) without (d) except

95. Which word is used in the following sentence correctly?
He studied Latin the age of ten.
(a) for (b) of (c) since (d) from

96. Change the voice of the following sentence.
Do it.
(a) Allow to be done (b) None of these
(c) Let it be done (d) It is done

97. Which phrase is a correct meaning of the following sentence?
I am a trifle man in this gathering of scholars.
(a) double fry (b) triple fry
(c) small fry (d) big fry

98. Correct the following sentence by using appropriate article.
He had an one rupee note.
(a) No correction (b) No article
(c) the (d) a

99. Which figure of speech is used in the following sentence?
Swords clanged and guns boomed.
(a) Hyperbole (b) Metaphor
(c) Oxymoron (d) Onomatopoeia

100. Select correct word in the place of underlined word in the sentence.
All the candidates will give a test on Friday.
(a) accept (b) None of these
(c) appear (d) take

Paper II

Part I : Reasoning Ability

1. Find the odd one from the following.
(a) LEAN (b) LIEN
(c) LINE (d) NILE

2. What will we get after subtracting $(m + n)$ from $(m - n)$?
(a) $-2n$ (b) $+2n$
(c) $-2m$ (d) $+2m$

3. Find the odd one from the following
Talking, Sleeping, Walking, Eating
(a) Walking (b) Talking
(c) Eating (d) Sleeping

4. What will be the mirror image of FIXING?
(a) GNIXIF (b) FIXING (c) GNIXIF (d) FIXING

5. Find the missing number.

594	198
?	66

(a) 11 (b) 12 (c) 33 (d) 22

6. Choose the correct alternative.
Newspaper : Press :: Cloth : ?
(a) Tailor (b) Textile
(c) Fibre (d) Mill

7. Choose the odd one
 Curd, Butter, Oil, Cheese, Cream
 (a) Cream (b) Cheese (c) Oil (d) Curd

8. What will be the compound interest of ₹ 3000 for two years at the rate of 10% interest to be calculated annually?
 (a) ₹ 3630 (b) ₹ 600 (c) ₹ 630 (d) ₹ 3600

9. Vaibhav eats 10 purees in two days while Saurabh eats 20 purees in a day. How many days both Vaibhav and Saurabh will take to eat 250 purees?
 (a) 25 (b) 20 (c) 10 (d) 12

10. Find out the wrong term in the following series.
 3, 10, 27, 4, 16, 64, 5, 25, 125
 (a) 27 (b) 10 (c) 4 (d) 3

11. Complete the following series
 2, 7, 16, ?, 46, 67, 92
 (a) 32 (b) 29 (c) 31 (d) 25

12. Arrange the below given words in a meaningful sequence and then choose the most appropriate sequence from the given options.
 1. Book 2. Key 3. Door 4. Lock
 5. Room
 (a) 5, 1, 2, 4, 3 (b) 1, 5, 3, 4, 2
 (c) 2, 4, 3, 5, 1 (d) 4, 2, 3, 5, 1

13. The number of students in a college increases every year. Find out the number of students in 2018 from the following information?

Year	2013	2014	2015	2016	2017	2018
No. of Students	520	523	529	538	550	?

(a) 15 (b) 565 (c) 559 (d) 575

14. Pointing towards a woman, Amit said, 'Her father's only son is my father.' How is Amit related to that woman?
 (a) Son (b) Nephew
 (c) Husband (d) Brother

15. Find the remainder when $73 + 75 + 78 + 57 + 197$ is divided by 34.
 (a) 14 (b) 15 (c) 4 (d) 28

16. If TEACHER is written as VGCEJGT, how is CHILDREN written?
 (a) EJKNEGTP (b) EGKNFIP
 (c) EJKNFGTO (d) EJKNFTGP

17. Complete the following series.
 9, 25, 49, ?, 121
 (a) 97 (b) 81
 (c) 85 (d) 82

18. In a code language 297 means 'tie clip button'. Which number means button in that language if
 1. 926 means 'clip your tie'
 2. 175 means 'hole and button'?
 (a) 7 (b) 6 (c) 2 (d) 9

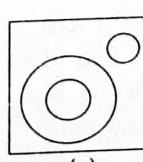
19. The average age of A, B and C is 18 yr. If B is two years older than A and five years younger than C, what is the age of C?
 (a) 22 yr (b) 23 yr (c) 24 yr (d) 25 yr

20. If first February, 1900 was Monday, what day it was on first March, 1901?
 (a) Sunday (b) Monday
 (c) Tuesday (d) Friday

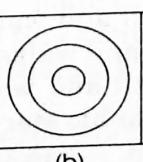
21. If City is called Village, Village is called Forest, Forest is called Sofa, Sofa is called Fridge, Fridge is called Room, then where do the Deer live?
 (a) Village (b) Sofa
 (c) Fridge (d) Room

22. Select the option for (?)
 $144 : 13 :: 36 : ?$
 (a) 1 (b) 2 (c) 6 (d) 7

23. Identify the diagram that best represents the relationship between classes given below.
 Teachers, Researchers, Scientists



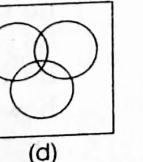
(a)



(b)



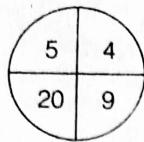
(c)



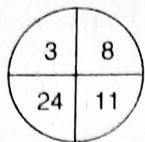
(d)

24. If 22nd day of a month was Sunday, what day was it on 13th day?
 (a) Thursday (b) Friday
 (c) Saturday (d) Sunday

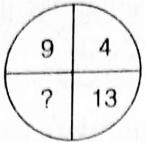
25. Insert the missing number



(a) 36
(c) 26



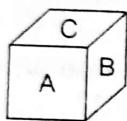
(b) 32
(d) 42



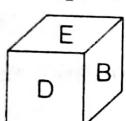
26. X, Y and Z are friends. X is eldest followed by Y and Z. X is two years elder to Y and 5 yr elder to Z. The sum of present age of X and Z is three times the age of Y, 5 yr ago. What is the current age of Y?

(a) 14
(c) 16
(b) 12
(d) 18

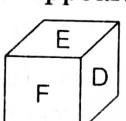
27. Three positions of a dice are shown below. Which alphabet will come on the opposite face on which alphabet F appears?



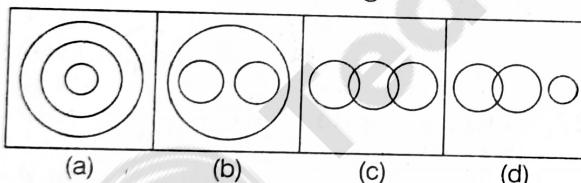
(a) B
(c) E



(b) A
(d) C



28. Which of the following venn diagrams correctly depicts the relationship among Cement, House and Bridge.



(a)
(b)
(c)
(d)

29. Complete the series

30, 100, 180, 270, ?
(a) 370
(b) 410
(c) 420
(d) 430

30. A man walks 2 km towards East and then he turns to South and walks 4 km. Again he turns to East and walks 1 km after this he turns to North and walks 8 km. Now how far is he from his starting point?

(a) 3 km
(b) 4 km
(c) 5 km
(d) 7 km

31. Find the square of 0.01.

(a) 0.1
(b) 0.01
(c) 0.001
(d) 0.0001

32. Fill in the blank (?) space

HI : CD :: 89 : ?
(a) 34
(b) 43
(c) 45
(d) 98

33. In a problem of simple multiplication, one child reversed the digits of both the numbers and carried out the multiplication. It was found that the product was exactly the same as the one expected from the original numbers. Which one are the original numbers?

(a) 14, 22
(b) 13, 62
(c) 19, 33
(d) 42, 28

34. The position of how many digits will remain the same if the digits in the number '84617925' are rearranged in descending order.

(a) one
(b) two
(c) three
(d) All will change (None)

35. A mountaineer spent $\frac{1}{4}$ of his life as a

carpenter, $\frac{1}{5}$ as an actor, $\frac{1}{3}$ as a manager

and 13 yr in an old age home. What is his present age?

(a) 80 yr
(b) 70 yr
(c) 85 yr
(d) 60 yr

36. Ankit is richer than Balwant. Chetan is richer than Ankit. Dinesh is richer than Chetan. Sameer is richest of all. Who among them have least wealth?

(a) Balwant
(b) Ankit
(c) Dinesh
(d) Chetan

37. If we reverse the second half of the English alphabet series starting from A to Z, then which letter will be 14th to the right of 6th letter from the left.

(a) F
(b) R
(c) T
(d) U

38. Select the missing term from the options that will complete the missing series.

CAT, FDW, IGZ, ?

(a) KJA
(b) KTC
(c) LHD
(d) LJC

39. Below are given four words. The 1st and 2nd words have the same relation as 3rd and 4th. Fill in the question mark (?) from the given options.

? : Time :: Thermometer : ?

(a) Watch, Heat
(b) Sun, Temperature
(c) Watch, Temperature
(d) Day, Energy

40. Substitute the question mark (?) from the given options

Bird : Fish :: Aeroplane : ?

(a) Ship
(b) Car
(c) Water
(d) Air

41. Three of the following four are alike in certain ways and so form a group. Which is odd one that does not belong to the group?
 (a) DEHG (b) RSVU (c) LMQP (d) JKNM

42. V, W, X, Y, Z are five friends. VXZ are fond of Mango. WXY like Apple. VWZ like Guava. WXZ like Banana. V and Y are fond of Orange. WYZ like Chickoo.
 Fruits liked by X are
 (a) Mango, Apple and Banana
 (b) Guava, Orange and Banana
 (c) Banana, Chickoo and Apple
 (d) Mango, Chickoo and Guava

43. Out of the four words which one cannot be formed by using the letter of the given word?
CORRESPONDING
 (a) DROPER (b) SUPERIOR
 (c) GRINDER (d) DISCERN

44. There are five houses P, B, T, D, C in a row. P is on the right side of B and left side of T. C is on the right side of P. B is on the right of D. Which house is in the middle?
 (a) B (b) P (c) T (d) D

45. A person is to reach the top of pole which is 60 m high. Every minute he climbs 5 m but then slips down 4 m. In how many minutes he will reach the top?
 (a) 60 (b) 59 (c) 56 (d) 55

46. Which method of teaching is more desirable for primary school children?
 (a) Verbal
 (b) Pictorial
 (c) Verbal and pictorial combined
 (d) Real life experience

47. Which behaviour in a student should be considered as more serious?
 (a) Talks in the class during teaching.
 (b) Often pushes students.
 (c) Asks too many questions in class.
 (d) Remains withdrawn.

48. Today a father's age is four times the age of his son. Ten years back father's age was 14 times his son's age. If the sum of the present ages of both is 65 yr, what is their present ages?
 (a) 44 and 11 (b) 40 and 10
 (c) 48 and 12 (d) 52 and 13

49. Which of the following equations will result in 22?
 (a) $16 \div 12 + 8 - 13 \times 15$
 (b) $16 - 12 \times 8 \div 13 + 15$
 (c) $16 \times 12 \div 8 + 13 - 15$
 (d) $16 + 12 - 8 \times 13 \div 15$

50. In the following series, what will be in the place of?
 AZB, CYD, EXF, ?, IVJ, KUL
 (a) GUF (b) GWG (c) GWH (d) HWH

Part II : Science Group

51. Three consecutive positive integers is such that the sum of the first integer square and the product of the second and the third is 191. Find these integers.
 (a) 2, 5, 9 (b) 15, 17, 19
 (c) 10, 13, 18 (d) 9, 10, 11

52. The simplest form of $\frac{x^2}{x^3 + y^3} + \frac{xy}{(x+y)^2}$ is
 (a) $\frac{x(x+y)}{y(x^2 - xy + y^2)}$ (b) $\frac{x(x+y)}{y(x^2 + xy + y^2)}$
 (c) $\frac{x(x-y)}{y(x^2 + xy + y^2)}$ (d) $\frac{x(x-y)}{y(x^2 - xy + y^2)}$

53. HCF of $(x^2 + 4x + 4)$ and $(3x^2 - 12)$ is
 (a) $x + 1$ (b) $x + 2$
 (c) $x + 3$ (d) $x + 4$

54. If $\alpha + \beta = 24$ and $\alpha - \beta = 8$, then find the quadratic equation, these roots are α and β
 (a) $x^2 - 24x + 128 = 0$ (b) $x^2 - 2x + 11 = 0$
 (c) $x^2 - 12x + 20 = 0$ (d) $x^2 - x + 1 = 0$

55. In a cricket match, a batswoman hits a boundary 6 times out of 30 balls she plays. Find the probability that she did not hit a boundary.
 (a) $\frac{1}{5}$ (b) $\frac{2}{5}$ (c) $\frac{3}{5}$ (d) $\frac{4}{5}$

56. The simplest form of $\frac{x^2 - 5x + 6}{x^2 - 9x + 20} + \frac{x^2 - 3x + 2}{x^2 - 5x + 4}$ is
 (a) $\frac{x-3}{x-5}$ (b) $\frac{x+3}{x-5}$ (c) $\frac{x-3}{x+5}$ (d) $\frac{x+3}{x+5}$

57. The value of $\sin^2 \theta + \frac{1}{1 + \tan^2 \theta}$ is
 (a) $\cos^2 \theta$ (b) $\sin^2 \theta$ (c) 1 (d) $\sec^2 \theta$

58. The sale price of a clock with 8% sales tax is ₹ 810. The clock's face value will be
 (a) ₹ 750 (b) ₹ 700 (c) ₹ 800 (d) ₹ 650

59. The ratio of two circles diameters is 4 : 9. The ratio of circumferences of these circles.
 (a) 4 : 9 (b) 3 : 7 (c) 2 : 1 (d) 4 : 7

60. A person is able to stream a boat with 18 km in 4 h and the opposite of the stream takes 12 h to return. The speed of the stream is
 (a) 1 km/h (b) 1.5 km/h (c) 2 km/h (d) 1.75 km/h

61. The length, breadth and height of a room are 5 m, 4 m and 3 m, respectively. Find the cost of white washing the walls of the room and the ceiling at the rate of ₹ 7.50 per m²
 (a) ₹ 555 (b) ₹ 259 (c) ₹ 348 (d) ₹ 459

62. A 200 m long train is going to speed 70 km/h. A 150 m long train is coming in front of him. So he crosses the first train in 10 seconds. Then, tell what would be the speed of another train?
 (a) 25 km/h (b) 36 km/h (c) 45 km/h (d) 56 km/h

63. If p th term is q and q th term is p of a AP, then n th term will be
 (a) $(p + q - n)$ (b) $(p - q + n)$
 (c) $(p - q - n)$ (d) $(p + q + n)$

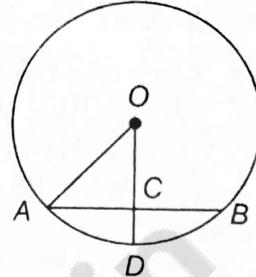
64. What is the sum of the square of natural numbers from 1 to 20.
 (a) 1120 (b) 1978 (c) 2870 (d) 579

65. A and B can complete any work in 10 days and 15 days, respectively. With the help of C he completed this work in 4 days. Then, tell how alone C can complete it in days.
 (a) 12 days (b) 14 days (c) 16 days (d) 18 days

66. The value of $\log_6 7 \times \log_7 8 \times \log_8 9 \times \log_9 6$ is
 (a) 0 (b) 1 (c) -1 (d) 2

67. If $x = 2 - \sqrt{3}$, then the value of $x^2 + \frac{1}{x^2}$ is
 (a) 14 (b) -14 (c) 2 (d) -2

68. In figure if $OA = 5$ cm, $AB = 8$ cm and chord OD is perpendicular on AB , then CD equals to



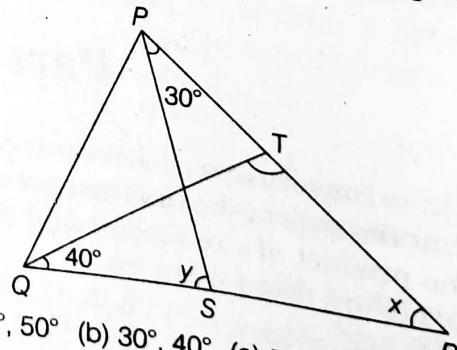
(a) 2 cm (b) 3 cm (c) 4 cm (d) 5 cm

69. If θ is acute angle such that $\sin \theta = \cos \theta$, then the value of $2 \tan^2 \theta + \sin^2 \theta - 1$ is
 (a) $\frac{1}{2}$ (b) $\frac{1}{\sqrt{2}}$ (c) $\frac{3}{2}$ (d) $\frac{\sqrt{3}}{2}$

70. The value of $\frac{\sin A}{1 + \cos A} + \frac{1 + \cos A}{\sin A}$ is
 (a) $\sec A$ (b) $2 \sec 2A$
 (c) $\operatorname{cosec} A$ (d) $2 \operatorname{cosec} A$

71. At the rate of simple interest in 4 yr, ₹ 1200 becomes ₹ 1488 if the simple interest rate increases at 3%, then how much will amount be
 (a) ₹ 1632 (b) ₹ 1244 (c) ₹ 1192 (d) ₹ 1891

72. In figure if $QT \perp PR$, $\angle TQR = 40^\circ$ and $\angle SPR = 30^\circ$, then value of x, y respectively, is



(a) $20^\circ, 50^\circ$ (b) $30^\circ, 40^\circ$ (c) $50^\circ, 80^\circ$ (d) $40^\circ, 70^\circ$

73. The total expending of paint of a solid circular ball is ₹ 308, at the rate of ₹ 2. Then, the diameter of ball is
 (a) 3 cm (b) 4 cm (c) 7 cm (d) 9 cm

74. Two circles of radii 5 cm and 3 cm intersect at two points and the distance between their centres is 4 cm. Find the length of the common chord.
 (a) 2 cm (b) 4 cm (c) 6 cm (d) 8 cm

75. If $x - \frac{1}{x} = 2$, then the value of $x^2 + \frac{1}{x^2}$ is
 (a) 2 (b) 4 (c) 6 (d) 8

76. In an electrical circuit three incandescent bulbs A, B and C of rating 40 W, 60 W and 100 W respectively are connected in parallel to an electric source. Which of the following is likely to happen regarding their brightness?

- (a) Brightness of all the bulbs will be the same
- (b) Brightness of bulb A will be the maximum
- (c) Brightness of bulb B will be more than that of A
- (d) Brightness of bulb C will be less than that of B

77. A child is standing in front of a magic mirror. She finds the image of her head bigger, the middle portion of her body of the same size and that of the legs smaller. The following is the order of combinations for the magic mirror from the top.

- (a) Plane, convex and concave
- (b) Convex, concave and plane
- (c) Concave, plane and convex
- (d) Convex, plane and concave

78. To convert an AC generator into DC generator

- (a) split ring type commutator must be used
- (b) slip rings and brushes must be used
- (c) a stronger magnetic field has to be used
- (d) a rectangular wire loop has to be used

79. In a hydro power plant

- (a) Potential energy possessed by stored water is converted into electricity
- (b) kinetic energy possessed by water is converted into electric energy
- (c) electricity is extracted from water
- (d) water is converted into steam to produce electricity

80. Unit of electric power may also be expressed as

- (a) Volt Ampere (b) kilowatt hour
- (c) Watt second (d) Joule second

81. Where should an object be placed in front of a convex lens to get a real image of the size of object?

- (a) At the principal focus of lens
- (b) At twice the focal length
- (c) At infinity
- (d) Between optical centre of lens and its principal focus

82. Commercial electric motors do not use

- (a) an electromagnet to rotate the armature
- (b) effectively large number of turns of conducting wire in the current carrying coil
- (c) a permanent magnet to rotate the armature
- (d) a soft iron core on which the coil is wound

83. The danger signals installed at the top of the tall buildings are in red colour. These can be easily seen from a distance because among all other colours, the red light

- (a) is scattered the most by smoke or fog
- (b) is scattered the least by smoke or fog
- (c) is absorbed the most by smoke or fog
- (d) moves fastest in air

84. Which of the following phenomena contributes significantly to the reddish appearance of the sun at sunrise and sunset?

- (a) Dispersion of light
- (b) Scattering of light
- (c) Total internal reflection of light
- (d) Reflection of light from the earth

85. Above curie temperature

- (a) a ferromagnetic substance becomes paramagnetic
- (b) a paramagnetic substance becomes diamagnetic
- (c) a diamagnetic substance becomes paramagnetic
- (d) a paramagnetic substance becomes ferromagnetic

86. Oils on treating with hydrogen in the presence of palladium or nickel catalyst from fats. This is an example of

- (a) addition reaction
- (b) substitution reaction
- (c) displacement reaction
- (d) oxidation reaction

87. Vinegar is a solution of

- (a) 50% - 60% acetic acid in alcohol
- (b) 5% - 8% acetic acid in alcohol
- (c) 5% - 8% acetic acid in water
- (d) 50% - 60% acetic acid in water

88. Generally, non metals are not conductors of electricity. Which of the following is a good conductor of electricity?

- (a) Diamond (b) Graphite
- (c) Sulphur (d) Fullerene

89. Galvanisation is a method of protecting iron from rusting by coating it with a thin layer of
 (a) gallium
 (b) aluminium
 (c) zinc
 (d) silver

90. Which of the following statements is true for acids?
 (a) Bitter and change red litmus to blue
 (b) Sour and change red litmus to blue
 (c) Sour and change blue litmus to red
 (d) Bitter and change blue litmus to red

91. Which one of the following properties is not generally exhibited by ionic compounds?
 (a) Solubility in water
 (b) Electrical conductivity in solid state
 (c) High melting and boiling points
 (d) Electrical conductivity in molten state

92. Electrical wires have a coating of an insulating material, which is generally
 (a) Sulphur
 (b) Graphite
 (c) PVC
 (d) All can be used

93. Stainless steel is very useful material in our life. In stainless steel, iron is mixed with
 (a) Ni and Cr
 (b) Cu and Cr
 (c) Ni and Cu
 (d) Cu and Au

94. Which of the following is used for dissolution of gold?
 (a) Hydrochloric acid
 (b) Sulphuric acid
 (c) Nitric acid
 (d) Aqua - regia

95. Lungs are enclosed in
 (a) perichondrium
 (b) pericardium
 (c) pleural membrane
 (d) peritoneum.

96. Arteries are best defined as the vessels which
 (a) carry blood away from the heart to different organs
 (b) break up into capillaries which reunite to form a vein
 (c) carry blood from one visceral organ to another visceral organs
 (d) supply oxygenated blood to the different organs

97. Hydrochloric acid (HCl) is secreted by which of the following cells of stomach?
 (a) Chief cells
 (b) Parietal cells (oxyntic cells)
 (c) Peptic cells
 (d) Goblet cells

98. Which of the following is true for photosynthesis?
 (a) Reduction of CO_2 and water
 (b) Oxidation of CO_2 and water
 (c) Reduction of CO_2 and oxidation of water
 (d) Oxidation of CO_2 and reduction of water

99. The manufactured food in a green plant moves from the leaves to other parts through
 (a) xylem
 (b) phloem
 (c) cortex
 (d) pith

100. Which of the following is a pair of viral diseases?
 (a) Ringworm, AIDS
 (b) Common cold, AIDS
 (c) Dysentery, common cold
 (d) Typhoid, tuberculosis.

Answers

Paper I

1	(b)	2	(c)	3	(a)	4	(b)	5	(b)	6	(d)	7	(a)	8	(a)	9	(a)	10	(d)
11	(a)	12	(a)	13	(b)	14	(c)	15	(d)	16	(b)	17	(c)	18	(d)	19	(d)	20	(a)
21	(a)	22	(c)	23	(d)	24	(a)	25	(b)	26	(d)	27	(b)	28	(b)	29	(b)	30	(a)
31	(c)	32	(d)	33	(d)	34	(d)	35	(d)	36	(c)	37	(a)	38	(c)	39	(c)	40	(a)
41	(c)	42	(d)	43	(b)	44	(c)	45	(d)	46	(c)	47	(a)	48	(b)	49	(d)	50	(a)
51	(a)	52	(c)	53	(d)	54	(b)	55	(a)	56	(a)	57	(c)	58	(d)	59	(b)	60	(b)
61	(b)	62	(a)	63	(a)	64	(c)	65	(b)	66	(a)	67	(c)	68	(b)	69	(a)	70	(b)
71	(c)	72	(c)	73	(a)	74	(c)	75	(a)	76	(a)	77	(d)	78	(d)	79	(b)	80	(a)
81	(b)	82	(d)	83	(a)	84	(c)	85	(c)	86	(a)	87	(a)	88	(d)	89	(b)	90	(d)
91	(d)	92	(d)	93	(d)	94	(a)	95	(d)	96	(c)	97	(c)	98	(d)	99	(d)	100	(d)

Paper II

1	(a)	2	(a)	3	(c)	4	(d)	5	(d)	6	(d)	7	(c)	8	(c)	9	(c)	10	(b)
11	(b)	12	(c)	13	(b)	14	(b)	15	(c)	16	(d)	17	(b)	18	(a)	19	(a)	20	(c)
21	(b)	22	(d)	23	(d)	24	(b)	25	(a)	26	(a)	27	(a)	28	(c)	29	(a)	30	(c)
31	(d)	32	(a)	33	(b)	34	(a)	35	(d)	36	(a)	37	(c)	38	(d)	39	(c)	40	(a)
41	(c)	42	(a)	43	(b)	44	(b)	45	(c)	46	(c)	47	(d)	48	(d)	49	(c)	50	(c)
51	(d)	52	(a)	53	(b)	54	(a)	55	(d)	56	(a)	57	(c)	58	(a)	59	(a)	60	(b)
61	(a)	62	(d)	63	(a)	64	(c)	65	(a)	66	(b)	67	(a)	68	(a)	69	(c)	70	(d)
71	(a)	72	(c)	73	(c)	74	(c)	75	(c)	76	(c)	77	(c)	78	(a)	79	(b)	80	(a)
81	(b)	82	(c)	83	(b)	84	(b)	85	(a)	86	(a)	87	(c)	88	(b)	89	(c)	90	(c)
91	(b)	92	(c)	93	(a)	94	(d)	95	(c)	96	(a)	97	(b)	98	(c)	99	(b)	100	(b)