

**DO NOT OPEN THIS TEST BOOKLET TILL YOU ARE ASKED TO DO SO.**

TR/CTSPTS/GS-I/19

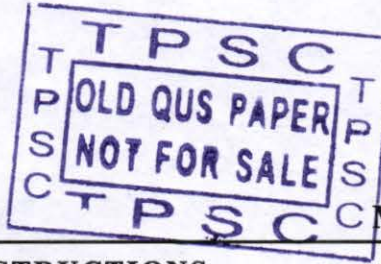
**TEST BOOKLET  
GENERAL STUDIES PAPER-I**

Test Booklet Series

(Signature of the Candidate)

(Invigilator's Signature)

Time Allowed : 3 hours (Three hours)



Maximum Marks : 150

**INSTRUCTIONS**

- PLEASE CHECK THE TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- ENCODE CLEARLY THE TEST BOOKLET SERIES IN THE APPROPRIATE PLACE IN THE ANSWER SHEET BY BLACK BALL POINT PEN ONLY.**
- This Test Booklet is divided into three sections, i.e. Section-I, Section-II and Section-III.
  - Section-I (MCQ pattern)** contains 100 items (questions). Each question, carrying one (1) mark only, has four responses (answers). You will select the response which you want to mark on the **OMR Sheet**. In case you feel that there is more than one correct response, mark the response which you consider the most appropriate. In any case, choose **ONLY ONE** response for each item.
  - Questions under **Section-II and Section-III (both are Conventional Method)** contain 25 marks each is to be answered in separate **Answer Books**. **2 (two) Answer Books will be supplied to each candidate for writing answers of Section-II and Section-III.** Answers to Section-II and Section-III must be written either in English or in Bengali. It must not be answered partly in English and partly in Bengali. This instruction should be followed scrupulously.
- You have to mark all your responses of **Section-I** by **Black Ball Point Pen only** on the separate Answer Sheet provided. See directions in the Answer Sheet.
- Before you proceed to answer the responses to various items in the Test Booklet, you have to fill in some particulars both in the OMR Answer sheet for section-I and in the Answer book for Section-II and Section- III.
- On completion of the Examination, you should handover the OMR Answer sheet for Section-I and Answer Books for Section- II and Section-III to the invigilator only. You are permitted to take the Test Booklet with you.
- Sheets for rough work are appended on the Test Booklet at the end.
- Penalty for wrong answers for Section-I only :**
  - There will be four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-fourth** of the marks assigned to that question will be deducted as penalty.
  - If a candidate gives more than one answer, it will be treated as a **Wrong Answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
  - If a question is left blank, i.e. no answer is given by the candidate, there will be **no penalty** for that question.

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## SECTION – I

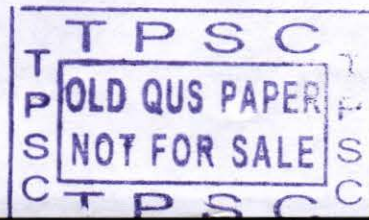
Four options are given against each of the following questions. Select the best/correct option from among the four options and encode in the answer sheet by using **Black Ball Point pen** only as per example given below :

**Example :** The wheel in our National Flag has

- (A) 20 spokes (B) 24 spokes  
(C) 30 spokes (D) 25 spokes

Answer : (A) ☒ (C) ☐ (D) ☐

1. Under which river in India the first underwater river tunnel was dug to lay train tracks ?  
(A) Jhelum  
(B) Teesta  
(C) Chambal  
(D) Hoogly
2. The 22nd National Conference on e.Governance was held at \_\_\_\_\_.  
(A) Shillong (Meghalaya)  
(B) Hyderabad (Telangana)  
(C) Aurangabad (Maharashtra)  
(D) Panchkula (Telengana)
3. The Jammu and Kashmir Re-organisation Act received the assent of President of India on \_\_\_\_\_.  
(A) 5th August, 2019  
(B) 6th August, 2019  
(C) 9th August, 2019  
(D) 7th August, 2019
4. According to Ethnologue which country has most languages ?  
(A) Nigeria  
(B) Papua New Guinea  
(C) Indonesia  
(D) India

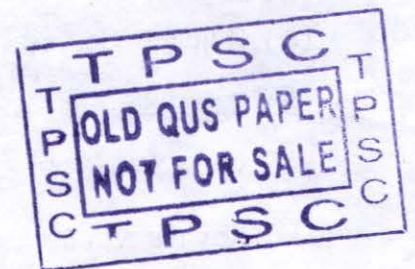




5. As per "All India Tiger Estimation Report, 2018, which one of the given below States has highest number of tigers ?  
 (A) Madhya Pradesh  
 (B) Karnataka  
 (C) Uttarakhand  
 (D) Maharashtra
6. The theme of '2019 International Youth Day' is —  
 (A) Transforming Education  
 (B) Youth for Peace  
 (C) Sustainable development  
 (D) Youth for Nation building
7. The first World Youth Conference on Kindness was held at —  
 (A) Mumbai  
 (B) Allahabad  
 (C) Chennai  
 (D) New Delhi
8. Which country has unveiled Bavar - 373 missile long-range, surface-to-air missile defense system ?  
 (A) Iran  
 (B) France  
 (C) China  
 (D) Russia
9. Which company inaugurated its World's largest campus in Hyderabad ?  
 (A) Snapdeal  
 (B) Flipkart  
 (C) Amazon  
 (D) Jabong
10. Among the following, which status Ladakh seeks to protect their land, culture and identity ?  
 (A) Statehood  
 (B) Tribal-area  
 (C) Restricted zone  
 (D) Regional State
11. What is the name of the contemporary artist who became the first Indian to be awarded the 'Joan Miro' prize ?  
 (A) Nalini Malini  
 (B) M. F. Hussain  
 (C) S. H. Raza  
 (D) Arpita Singh
12. The name of the space telescope used to discover the 18th hidden earth sized Exo-planets is  
 (A) Hubble  
 (B) Kepler  
 (C) Herschel  
 (D) Spitzer



13. Name the first village in India to have zero wooden stoves and no use for LPG cylinders and relying on solar powered stoves.
- (A) Marayoor village, Idukki district, Kerala
- (B) Rasra village, Ballia district, Uttar Pradesh
- (C) Anandpura village, Ahmedabad district, Gujarat
- (D) Bancha village, Betul district, Madhya Pradesh
14. What is the rank of India in the 'Global Peace Index 2019' released recently by Institute of Economics and Peace ?
- (A) 125
- (B) 141
- (C) 112
- (D) 87
15. Where was the 3rd edition of 'Namaste Thailand Festival 2019' held ?
- (A) Bengaluru
- (B) Agra
- (C) New Delhi
- (D) Vadodara
16. Which year is set by Government of India as the target year to end Tuberculosis ?
- (A) 2030
- (B) 2022
- (C) 2020
- (D) 2025
17. The name of the operation launched by Indian Navy in the Gulf of Oman to undertake maritime security
- (A) Operation Sankalp
- (B) Operation Gulf Peace
- (C) Operation Sagar
- (D) Operation Maritime
18. What is the name of the NASA's first Astrobee robot to fly under its own power in space ?
- (A) The Terminator
- (B) Slug Bot
- (C) Bumble
- (D) Leonardo
19. With which highest civilian award Prime Minister Narendra Modi was honoured by United Arab Emirates ?
- (A) Order of Zayed
- (B) Order of Mubarak
- (C) Order of Zolfaghar
- (D) Amir Amanullah Khan award
20. Which country sent life sized robot to the International Space Station (ISS) on August 23, 2019 ?
- (A) Japan
- (B) China
- (C) USA
- (D) Russia

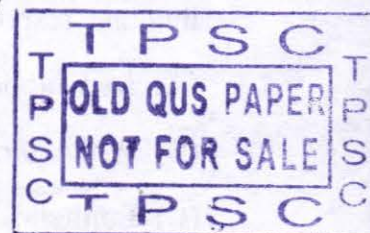




21. Name the Indian-American teenager who has won the '2019 – South Asian Spelling Bee' contest.
- (A) Chethan Sharma
  - (B) Navneeth Murali
  - (C) Sunil Mehta
  - (D) Adarsh Datta
22. Annual 'Konkan 2019' naval exercise was conducted with the participation of India and
- (A) Russia
  - (B) Japan
  - (C) UK
  - (D) New Zealand
23. Where the 'BRICS' Ministers of Environment meeting, 2019 was held ?
- (A) Sao Paulo — Brazil
  - (B) New Delhi — India
  - (C) Beijing — China
  - (D) Kostroma — Russia
24. Who among the following has been awarded with 'Ramon Magsaysay' award, 2019 ?
- (A) Rajdeep Sardesai
  - (B) Rajat Sharma
  - (C) Vinod Dua
  - (D) Ravish Kumar
25. 'World Immunization Week' is observed annually in the last week of
- (A) April
  - (B) June
  - (C) October
  - (D) November
26. Which is the correct order to show units from largest to smallest ?
- (A) Millilitres, decilitre, litre
  - (B) Litre, decilitre, millilitre
  - (C) Decilitre, millilitre, litre
  - (D) Litre, millilitre, decilitre
27. The brain of any computer system is
- (A) ALU
  - (B) Memory
  - (C) Control unit
  - (D) CPU
28. Widal test is employed to diagnose
- (A) Typhoid
  - (B) Cholera
  - (C) Tuberculosis
  - (D) AIDS



29. In medical terminology, USG stands for  
 (A) Undersized gland  
 (B) Ultrasonography  
 (C) Unsegmented gonads  
 (D) None of the above
30. The physical quantity which is measured as  $\text{Kg m/s}^2$  is  
 (A) Work  
 (B) Power  
 (C) Force  
 (D) Motion
31. Which of the following statements is correct ?  
 (A) Protons are negatively charged and are present in the nucleus  
 (B) Electrons are positively charged and are present in the nucleus  
 (C) Electrons are negatively charged and are present in the orbits  
 (D) The entire mass of atom is distributed in the orbits.
32. ELISA stands for  
 (A) Enzyme-linked immunosorbent assay  
 (B) Epithelium lesions in surface analysis  
 (C) Energy-linked immunity assay  
 (D) Enzyme-linked immunity analysis
33. Boiling point of water inside a sealed pressure cooker is  
 (A)  $100^\circ\text{C}$   
 (B)  $121^\circ\text{C}$   
 (C)  $95^\circ\text{C}$   
 (D)  $0^\circ\text{C}$
34. Which of the following cell organelles is referred to as the 'suicidal bags' or 'disposal units' ?  
 (A) Lysosome  
 (B) Peroxisomes  
 (C) Glyoxisomes  
 (D) Mitochondria
35. Dengu is caused by  
 (A) Bacteria  
 (B) Protozoa  
 (C) Virus  
 (D) Genetic disorder
36. Which of the following is not a property of acids ?  
 (A) All acids have sour taste  
 (B) All acids are corrosive in nature  
 (C) For acidic solutions  $\text{pH} = < 7$   
 (D) Acids turn red litmus to blue

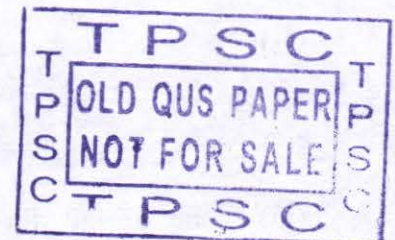




37. Magnification produced by a rear view mirror fitted in vehicles
- (A) is less than the object
  - (B) is more than the object
  - (C) is equal to the object
  - (D) can be more or less than the object depending upon the position of object in front of it.
38. Which of the following is not a renewable source of energy ?
- (A) Natural gas
  - (B) Geothermal energy
  - (C) Flowing water
  - (D) Biomass
39. Which of the following cells produce immune response in human body ?
- (A) Red blood cells
  - (B) White blood cells
  - (C) Epithelial cells
  - (D) Adipose cells
40. Which of the following is not a viral disease ?
- (A) Tuberculosis
  - (B) Polio
  - (C) Swine flu
  - (D) Hepatitis
41. Who is known as the 'Father of Green Revolution' in India ?
- (A) K. C. Mehta
  - (B) B.P. Paul
  - (C) M. S. Swaminathan
  - (D) C. Subramaniam
42. Opium is derived from which part of poppy plant ?
- (A) Seeds
  - (B) Leaves
  - (C) Bark
  - (D) Capsule
43. When was Edusat launched ?
- (A) October, 1988
  - (B) June, 2001
  - (C) September, 2004
  - (D) March 2008
44. Which of the following statements is not correct ?
- (A) Rh<sup>+</sup> person can donate blood to Rh<sup>+</sup> person
  - (B) Rh<sup>-</sup> person can donate blood to Rh<sup>-</sup> person
  - (C) Rh<sup>-</sup> person can donate blood to Rh<sup>+</sup> person
  - (D) Rh<sup>+</sup> person can donate blood to Rh<sup>-</sup> person



45. Which of the following is not a biofertilizer ?  
 (A) *Rhizobium*  
 (B) *Mucor*  
 (C) *Azotobacter*  
 (D) *Anabaena*
46. What is the rarest blood type in the world ?  
 (A) A  
 (B) O positive  
 (C) AB<sup>-</sup>  
 (D) B
47. Which of the following lenses would you prefer to read small letters in a dictionary ?  
 (A) A convex lens of focal length 50 cm  
 (B) A concave lens of focal length 50 cm  
 (C) A convex lens of focal length 5 cm  
 (D) A concave lens of focal length 5 cm
48. Time during which a job is processed by the computer is  
 (A) Delay time  
 (B) Real time  
 (C) Down time  
 (D) Execution time
49. The force responsible for the flow of water in river is  
 (A) Force of gravitation  
 (B) Force of friction  
 (C) Electrostatic force  
 (D) Magnetic force
50. Which of the following statements is not true about Bt cotton ?  
 (A) Bt cotton has increased profit margin of farmers  
 (B) Use of insecticides has reduced significantly  
 (C) Seeds of Bt cotton are cheaper than non-GM seeds  
 (D) Since the use of Bt cotton India's cotton export has doubled.
51. The sum of all odd numbers from 1 to 51 is  
 (A) 676  
 (B) 625  
 (C) 576  
 (D) 696
52. The greatest 3 digit number which is divisible by 7 is  
 (A) 998  
 (B) 976  
 (C) 994  
 (D) 987





53. The product of place value and face value of 5 in 65231 is

- (A) 28000
- (B) 25000
- (C) 27000
- (D) 26000

54. Which among  $3\sqrt{8}$ , 3,  $\sqrt[3]{1000}$ , 5 is greatest ?

- (A) 5
- (B) 3
- (C)  $\sqrt[3]{8}$
- (D)  $\sqrt[3]{1000}$

55. If  $\frac{2}{3}$ rd part of a number is greater by 7 than  $\frac{3}{5}$ th of it, then the number is

- (A) 60
- (B) 105
- (C) 150
- (D) 120

56. H. C. F. of  $\frac{4}{9}$ ,  $\frac{10}{21}$  and  $\frac{20}{63}$  is

- (A)  $\frac{1}{21}$
- (B)  $\frac{5}{63}$
- (C)  $\frac{2}{63}$
- (D) None of the above

57. If A's income is 25% more than B's income, then B's income is less than that of A's by

- (A)  $16\frac{2}{3}\%$
- (B) 12%
- (C) 20%
- (D) None of the above

58. If 20% of an electricity bill is deducted, then Rs.100 is still to be paid. What is the amount of original bill ?

- (A) Rs. 110
- (B) Rs. 115
- (C) Rs.120
- (D) Rs.125

59. Of 336 kg what per cent is 42 kg ?

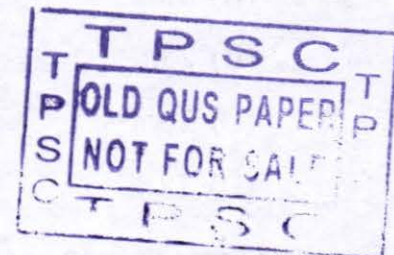
- (A) 12.5%
- (B) 10.5%
- (C) 13%
- (D) 7%

60. The average age of 7 family members is 75 years, but the average age of 6 of them is 74 years. What is the age of the 7th family member ?

- (A) 80 years
- (B) 81 years
- (C) 75 years
- (D) 70 years



61. The average of three numbers is 77. The first number is twice the second and the second number is twice the third. Then the first number is  
 (A) 33  
 (B) 77  
 (C) 66  
 (D) 132
62. The ratio of the present age of father to that of son is 7:2. After 10 years their ages will be in the ratio of 9:4. The present age of father is  
 (A) 35 years  
 (B) 40 years  
 (C) 30 years  
 (D) 25 years
63. The ratio of number of girls and boys participating in school sports is 4:5. If the number of girls is 212, the number of boys participating in sports is  
 (A) 256  
 (B) 265  
 (C) 251  
 (D) 270
64. A fruit seller buys oranges at 2 for a rupee and sells them at 5 for 3 rupees. His gain per cent is  
 (A) 10%  
 (B) 15%  
 (C) 20%  
 (D) 25%
65. By selling a car for Rs. 54,000 a car-seller gains 20%, then the cost price for the car is  
 (A) Rs. 50,000  
 (B) Rs. 48,000  
 (C) Rs. 52,000  
 (D) Rs. 45,000
66. If A and B together can complete a work in 18 days, A and C together in 12 days and B and C together in 9 days, then B alone can do the work in  
 (A) 18 days  
 (B) 24 days  
 (C) 30 days  
 (D) 40 days
67. S can copy 50 pages in 10 hours, S and P together can copy 300 pages in 40 hours. In how much time P can copy 30 pages ?  
 (A) 13 hours  
 (B) 11 hours  
 (C) 12 hours  
 (D) 9 hours
68. Rs. 1,200 is lent out at 5% per annum simple interest for 3 years. Then the amount after 3 years will be  
 (A) Rs. 1,380  
 (B) Rs. 1,470  
 (C) Rs. 1,290  
 (D) Rs. 1,240





69. Interest obtained on a sum of Rs. 5,000 for 3 years is Rs. 1,500, then the rate of interest was

- (A) 8% p.a.
- (B) 9% p.a.
- (C) 10% p.a.
- (D) 11% p.a.

70. A 200m long train crosses a platform of certain length in 15 seconds. Speed of the train is 90 km/hr. Then the length of the platform is

- (A) 300m
- (B) 225m
- (C) 150m
- (D) 175m

71. The ratio between the perimeter and breadth of a rectangle is 5:1. If the area of the rectangle is 216 sq. cm, then the length of the rectangle is

- (A) 18 cm
- (B) 24 cm
- (C) 16 cm
- (D) 20 cm

72. If the area of a circular field is 616 m<sup>2</sup> then the diameter of the field is

- (A) 16m
- (B) 28m
- (C) 20m
- (D) 18m

73. If  $X = \{ 2, 3, 4, 5 \}$  and  $Y = \{ 3, 4, 5, 6 \}$  be two sets then  $X \cup Y$  contains the number of elements

- (A) 4
- (B) 3
- (C) 5
- (D) 7

74. If  $A = \{ a, e, i, o, u \}$  and  $B = \{ e, o, g, h, k \}$  be two sets then the number of elements in  $A - B$  is

- (A) 3
- (B) 4
- (C) 2
- (D) 5

75. The arithmetic mean of 12 observations is 7.5. If the arithmetic mean of 7 of these observations is 6.5, then the mean of the remaining observations is

- (A) 5.5
- (B) 8.5
- (C) 9.2
- (D) 8.9.

76. A, B, C and D are playing cards. A and B are partners. D faces towards north. If A faces towards west, then who faces towards south ?

- (A) B
- (B) C
- (C) D
- (D) A and B both



77. A watch reads 4.30. If the minute hand points east, in what direction will the hour hand point ?

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

78. How many such pairs of letters are there in the word CORPORATE, each of which has as many letters in the same sequence between the word as in the English alphabet ?

- (A) None
- (B) One
- (C) Two
- (D) Three

79. Which letter in the word CYBERNETICS occupies the same position as it does in the English alphabet ?

- (A) C
- (B) E
- (C) I
- (D) T

80. Number of letters skipped in between adjacent letters in the series decreases by one. Which of the following series observes this rule ?

- (A) BGKNPR
- (B) CINRTU
- (C) EJNQST
- (D) LQUXAP

81. In the following series, the number of letters skipped in between the adjacent letters are in ascending order i.e. 1, 2, 3, 4. Which one of the following letter groups does not obey this rule ?

- (A) CEHLQ
- (B) DFIMR
- (C) GILPU
- (D) HJMPT

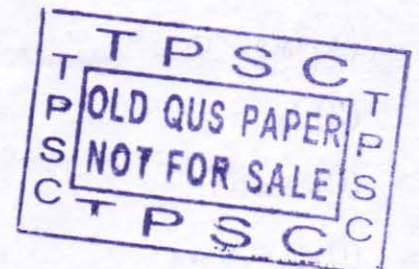
82. How many 6's are there in the following number series, each of which is immediately preceded by 1 or 5 and immediately followed by 3 or 9 ?

2 6 3 7 5 6 4 2 9 6 1 3 4 1 6 3 9  
1 5 6 9 2 3 1 6 5 4 3 2 1 9 6 7 1  
6 3

- (A) one
- (B) two
- (C) three
- (D) four

83. How many times will you write even numerals if you write all the numbers from 291 to 300 ?

- (A) 11
- (B) 13
- (C) 15
- (D) 17





84. If X finds that he is 12th from the right in a line of boys and 4th from the left, how many boys should be added to the line such that there are 28 boys in the line ?

- (A) 12
- (B) 13
- (C) 14
- (D) 20

85. If + means  $\times$ ,  $\times$  means  $-$ ,  $\div$  means  $+$  and  $-$  means  $\div$ , then which of the following gives the result of  $175 - 25 \div 5 + 20 \times 3 + 10$  ?

- (A) 77
- (B) 160
- (C) 240
- (D) 2370

86. Given that  $\times$  denotes 'greater than',  $\phi$  denotes 'equal to',  $<$  denotes 'not less than',  $\perp$  denotes 'not equal to',  $\Delta$  denotes 'less than' and  $+$  denotes 'not greater than', choose the correct statement from the following :

If  $a \times b \Delta c$  it follows that

- (A)  $a \phi c \Delta b$
- (B)  $b < a \times c$
- (C)  $a < b + c$
- (D)  $c + b < a$

87. If  $A + B = C + D$  and  $A + D > B + C$ , then which one of the following is wrong ?

- (A)  $A > B$
- (B)  $A > C$
- (C)  $C > D$
- (D)  $B > D$

88. Find the number when added to itself 13 times, gives 112.

- (A) 7
- (B) 8
- (C) 9
- (D) 11

89. Two bus tickets from city A to B and three tickets from city A to C cost Rs. 77 but three tickets from city A to B and two tickets from city A to C cost Rs. 73. What are the fares for cities B and C from A ?

- (A) Rs. 4, Rs. 23
- (B) Rs. 13, Rs. 17
- (C) Rs. 15, Rs. 14
- (D) Rs. 17, Rs. 13

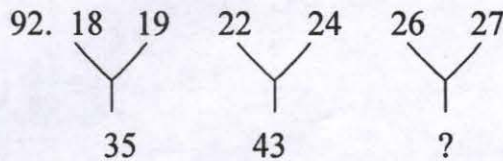
90. A father tells his son, "I was of your present age when you were born". If the father is 36 now, how old was the boy five years back ?

- (A) 13
- (B) 15
- (C) 17
- (D) 20



91. At the fair I bought 6 erasers and 2 pens for Rs. 15. If I bought 4 more erasers for Rs. 14 than pens for Rs. 9, the price of a pen would be

- (A) ₹ 1.50
- (B) ₹ 1.75
- (C) ₹ 2.25
- (D) ₹ 4.25



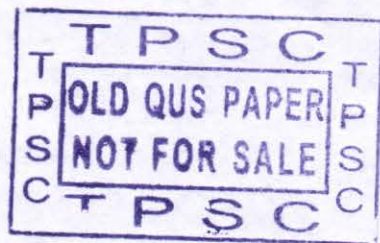
In the given figure find the missing character

- (A) 21
- (B) 25
- (C) 35
- (D) 45

93. Find the missing number in the matrix given below :

51	11	61
64	30	32
35	?	43

- (A) 25
- (B) 27
- (C) 32
- (D) 37



94. Find which of the following word can not be made from the letters of the given word : DESTRUCTION.

- (A) RUIN
- (B) TRUCK
- (C) TRUE
- (D) DIET

95. A hill always has

- (A) Trees
- (B) Animals
- (C) Water
- (D) Height

96. You have gone to enjoy a festival organised by a club. Suddenly you come across a lost child crying desperately . You would

- (A) neglect and walk away
- (B) ask the child to find his parents
- (C) ask him to stop crying and wait patiently for his parents
- (D) contact with the club authorities and make an arrangement for the parents.

97. What will be the next term in the series ? BKS, DJJ, FIU, —

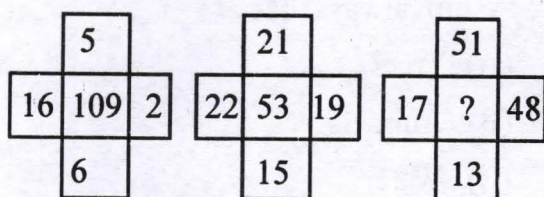
- (A) HJU
- (B) HHV
- (C) HBA
- (D) None of these.



98. A mirror always

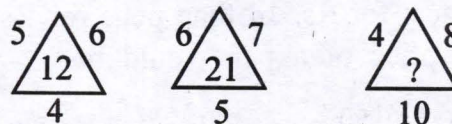
- (A) Reflects
- (B) Retracts
- (C) Distorts
- (D) Refracts

99. What is the missing number in the given figure ?



- (A) 7
- (B) 25
- (C) 49
- (D) 129

100. Find the missing character from the given alternatives :



- (A) 22
- (B) 30
- (C) 32
- (D) 42



## SECTION – II

Attempt any *five* questions out of the 6 questions given below : (1 mark each)  $1 \times 5 = 5$

Choose the correct answer and write in the answer script.

101. (i) The 8th International Conference on Biodiversity Conservation and Ecosystem Management will be held in :

- (a) New Delhi
- (b) Tokyo
- (c) Paris
- (d) Geneva

(ii) The number of individuals decreases from producer level to consumer level in :

- (a) Pyramid of number
- (b) Pyramid of biomass
- (c) Pyramid of energy
- (d) None of the above

(iii) The driving force for an ecosystem is :

- (a) Producers
- (b) Consumers
- (c) Biomass
- (d) Solar energy

(iv) The so-called good ozone is present in :

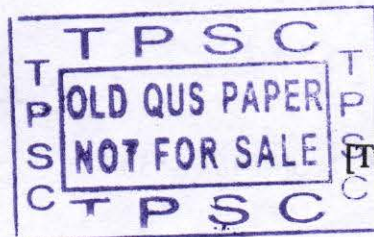
- (a) Troposphere
- (b) Stratosphere
- (c) Over Antarctica
- (d) Everywhere in small amounts

(v) Which BS emission standards government proposes to implement from April, 2020 ?

- (a) BS – IV
- (b) BS – V
- (c) BS – VI
- (d) BS – VII

(vi) How many hotspots of biodiversity have been identified on earth ?

- (a) 23
- (b) 34
- (c) 36
- (d) 42





102. Very short answer answer type questions. Attempt any *five* out of 6. (2 marks each).

2×5=10

- (i) Who initiated 'Man and Biosphere' programme ?
- (ii) Nitrogen and hydrocarbons react in the presence of sunlight . Name the secondary pollutants produced in the reaction.
- (iii) Name the ionising radiations produced due to decomposition of radioactive wastes.
- (iv) What do the jet airplanes and refrigerators have in common that has contributed to pollution ?
- (v) Where is the headquarters of United Nations Environmental programme ?
- (vi) Biological diversity is relatively greater in tropics. Give two reasons.

103. Short answer type questions. Attempt any *two* out of 3. (5 marks each)

5×2=10

- (i) What would happen if there is no CO<sub>2</sub> in the earth's atmosphere ?
- (ii) Differentiate between endangered and threatened species.
- (iii) Give a brief account of the impact of global climate change on human health.



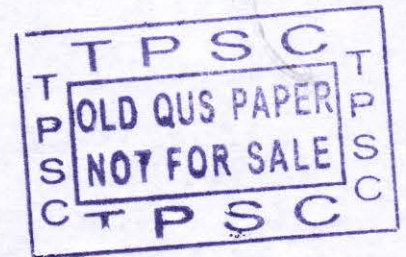
SECTION – III

104. Answer any *five* questions. (Each question carries 1 mark.)

1×5=5

Select the correct answer and write in answer script from the option given below :

- (i) Tripura is situated in the most vulnerable earthquake zone - V of India. Write (True or false.)
- (ii) All hazards result in Disaster. (True or false)
- (iii) Who is the Chairperson of Tripura Disaster Management Authority ?
  - (a) Minister (Revenue and PWD)
  - (b) Chief Minister
  - (c) Chief Secretary
  - (d) Minister, Health.
- (iv) Cyclones are named and their path is tracked by IMD in India. (True or false)
- (v) Magnitude of Earthquake is measured by
  - (a) Richter scale
  - (b) Mercalli scale
  - (c) Seismic scale
  - (d) None of the above
- (vi) Bhopal Gas Tragedy is a
  - (a) Fire disaster
  - (b) Industrial disaster
  - (c) Flood disaster
  - (d) Tsunami.



105. Answer any *five* questions. (Each question carries 2 marks.)

2×5=10

- (i) What are the two broad types of measures to mitigate the impacts of flood ?
- (ii) Can we mitigate drought ? Explain your answer.



- (iii) Name any four phases of Disaster Management cycle.
- (iv) What are the major natural hazards in State of Tripura ?
- (v) What is the difference between hazard and disaster ?
- (vi) Explain what is a Nuclear Disaster.

106. Answer any *two* questions. (Each question carries 5 marks.)

5×2=10

- (i) How earthquake occurs ? What are the effects of earthquake ? Explain Focus, Epicentre and Magnitude of an earthquake.
- (ii) What is Disaster Risk Reduction (DRR) ? What are NDMA, SDMA and DDMA under DM Act, 2005 and their roles in the Disaster Management in India ?
- (iii) What are floods ? Explain briefly the causes, effects of flood in North-Eastern India.

