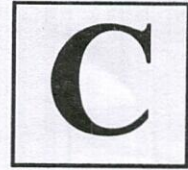


**DO NOT OPEN THIS TEST BOOKLET TILL YOU ARE ASKED TO DO SO.**

**TR/CTSPTS(M)/GS-I/TPSC/2023**

Test Booklet Series

**TEST BOOKLET  
GENERAL STUDIES PAPER – I**



\_\_\_\_\_  
(Signature of the Candidate)

\_\_\_\_\_  
(Invigilator's Signature)

**Time Allowed – 3 hours (Three hours)**

**Maximum Marks – 150**

**INSTRUCTIONS**

1. 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.
2. ENCODE CLEARLY THE TEST BOOKLET SERIES IN THE APPROPRIATE PLACE IN THE ANSWER SHEET BY BLACK BALL POINT PEN ONLY.
3. (a) This Booklet is divided into three sections, i.e., Section-I, Section-II and Section-III.  
(b) **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 Answer 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.  
(c) Questions under **Section-II and Section-III (both are Conventional Methods)** 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 be answered partly in English and partly in Bengali. This instruction should be followed scrupulously.
4. 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.
5. 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.
6. 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 away the Test Booklet with you.
7. Sheets for rough work are appended on the Test Booklet at the end.
8. **Penalty for wrong answers for Section-I only :**
  - (a) 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 mark assigned to that question will be deducted as penalty.
  - (b) 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.
  - (c) If a question is left blank, i.e. no answer is given by the candidate, there will be **no penalty** for that question.

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

TPSCNOTES.COM

Four options are given against each of the following questions. Select the best/correct option from among the four options and encode on 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)

### SECTION - I

- How many numbers between 3500 and 4500 are perfect squares ?  
(A) 8 (B) 9  
(C) 7 (D) 10
- In a Code Language if 'APPEAL' is coded as '256572' and 'PLAY' is coded as '7259' then in the same way 'PEARL' is coded as  
(A) 25679 (B) 25768  
(C) 25387 (D) None of these
- Choose the correct number from the following options to fill-up in the question mark in the series given below :  
3624, 4363, 3644, 4563, 3664, ?  
(A) 4263 (B) 4763  
(C) 4363 (D) 4563

4. Complete the given series by choosing the appropriate option

BEH, KNZ, TWZ, ?

(A) BDF

(B) ADG

(C) CFI

(D) IJL

5. Find the missing term in the following series :

CIL, F40, I9R, 116U, ?

(A) O25X

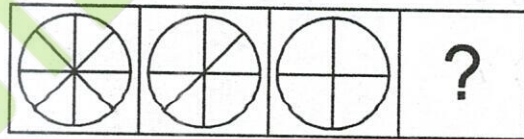
(B) N25X

(C) N25Y

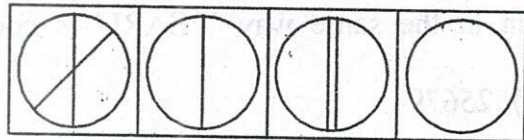
(D) N20Z

6. In the question four problem figures are given. Select a figure from the answer figures so that it will continue the same series as given in the problem figures

Problem figures :



Answer figures :



(A)

(B)

(C)

(D)

7. A dog is taken out every evening by the owner where house faces East. They walk 200m West, then 500m in South direction. Then in which direction they should take to reach home ?

(A) North

(B) North-West

(C) South-East

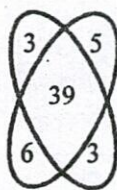
(D) North-East

8. Write the missing numerical value in the following figure :

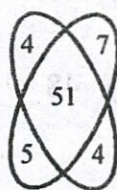


- (A) 17 (B) 8  
(C) 9 (D) 18

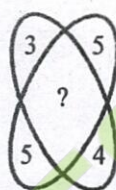
9. Choose the missing numerical value in the following figure (c) :



(a)



(b)



(c)

- (A) 37 (B) 45  
(C) 35 (D) 47

10. If in a Code Language STAR = 50 and CIRUS = 65 then 'PLANET' will be

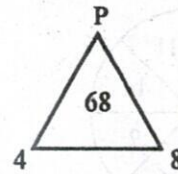
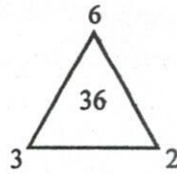
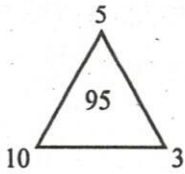
- (A) 68 (B) 84  
(C) 78 (D) 94

11. What is the number in place of '?' for the given below series ?

2Y23, 3V19, 5V17, ?

- (A) 7V9 (B) 7W15  
(C) 7T13 (D) None of these

12. What is the number that should come in place of 'P'?



(A) 2

(B) 4

(C) 6

(D) 3

13. If in a certain code  $23 \times 26 = 42$  and  $11 \times 15 = 19$ , then  $32 \times 16 = ?$

(A) 40

(B) 41

(C) 44

(D) 48

14. If 'FRIEND' is coded as 'HUMJTK', then how is 'CANDLE' written in that code?

(A) EDRIRL

(B) DCQHQB

(C) DEQJQM

(D) ESJFME

15. Arrange the following according to dictionary :

1. Electric

2. Elector

3. Electrode

4. Elect

5. Electron

(A) 2, 4, 3, 1, 5

(B) 4, 2, 1, 3, 5

(C) 4, 2, 3, 5, 1

(D) 3, 2, 1, 5, 4

16. Mukesh is taller than Rajeev, but shorter than Amar, who is shorter than Vijay. Suman is taller than Mukesh, but shorter than Amar, who is tallest ?

- (A) Mukesh (B) Suman  
(C) Vijay (D) Amar

17. Words in Column I is coded to the symbols in Column II. Read them carefully and answer the following question.

| Column I          | Column II |
|-------------------|-----------|
| GON RUN TOM CAT   | @ % ! #   |
| RAT BLACK CAT GON | % & ! \$  |
| BLACK TOM GON RAT | \$ & @ %  |
| RUN RAT TOM BLACK | & \$ @ #  |

The code for TOM is

- (A) @ (B) !  
(C) % (D) &

18. Choose the correct letter from the following options to fillup in the question mark given below :

R U X A D ?

- (A) E (B) F  
(C) G (D) I

19. AZB : CYD :: \_\_\_\_\_ : \_\_\_\_\_

- (A) EXF : GWH (B) EGF : HIJ  
(C) EFG : HIK (D) EZF : CYH

20. If TELEPHONE is written as SDKDOGNMD, the word TRICOLOUR would be written as

(A) SQHANKNTQ

(B) SQBHLNKQT

(C) SQHBNKNTQ

(D) SQBHNKNTQ

21. Complete the series :

$$-\frac{1}{2}, 0, \frac{1}{2}, 1, \frac{3}{2}, ?$$

(A)  $\frac{5}{2}$

(B)  $\frac{2}{5}$

(C) 0

(D) 2

22. Amit is son of Rahul, Sarika, Rahul's sister has a son, Sonu and a daughter Rita. Raja is the maternal uncle of Sonu.

How is Amit related to Sonu?

(A) Nephew

(B) Cousin (brother)

(C) Uncle

(D) None of these

23. Select the term which should come in place of the question mark :

4, 125, 9, 216, 16, ?

(A) 273

(B) 313

(C) 333

(D) 343

24. What should come in place of the question mark in the following letter series ?

?, GKQ, IJT, KIW, MHZ

(A) ELM

(B) EKN

(C) ELN

(D) EML

25. Prakash moves 100 m from point A to point B. At point B he takes left turn and moves 50 m. further to reach at point C. At point C he takes about turn and moves 150 m. to reach point D. If Prakash is facing South on reaching point D, then position at point D with respect to point A is

(A) 150 m South-East

(B) 200 m in West

(C)  $50\sqrt{2}$  m East

(D)  $100\sqrt{2}$  m in South-East

26. A person moves toward North a distance of 27 m from a point A and reaches at B. He turns  $90^\circ$  in clockwise direction and goes 36 m and reaches out C. The position of C with respect to the point A is

(A) 45 m North-East

(B)  $27\sqrt{2}$  m North-West

(C) 30 m North

(D)  $36\sqrt{2}$  m South West

27. As per 2011 Census of India, the Sex ratio between Women and Men in Tripura State is

(A) 950 : 1000

(B) 958 : 1000

(C) 953 : 1000

(D) 960 : 1000

28. The First Indian woman from Tripura who won Bronze Medal in Gymnastics in 2014 Commonwealth games is
- (A) Kalpana Debnath (B) Aklima Begam  
(C) Dipa Karmakar (D) Saraswati Saha
29. Which one of these Passes connects Srinagar and Leh ?
- (A) Lanak Pass (B) Rohtas Pass  
(C) Zoji La Pass (D) Mana Pass
30. 'Tadoba Andhari' National Park is located at
- (A) Assam (B) Bihar  
(C) Odisha (D) Maharashtra
31. Which Finance Commission recommended the Municipalities to levy Vacant Land Tax ?
- (A) Eleventh Finance Commission (B) Twelfth Finance Commission  
(C) Thirteenth Finance Commission (D) Fourteenth Finance Commission
32. The World's highest motorable road situated in India is
- (A) Umling La Pass (B) Dungri La Pass  
(C) Photi La Pass (D) Donkia La Pass
33. Which one is the first country in the world to implement GST ?
- (A) India (B) France  
(C) USA (D) Canada

34. Which of the following is Viviparous ?

- (A) Bee
- (B) Butterfly
- (C) Cockroach
- (D) Scorpion

35. The name of the Educational Programme launched by Tripura Government to encourage Social and Emotional Learning in Schools is

- (A) Susradha
- (B) Saharsh
- (C) Susiksha
- (D) Suvidya

36. 'Mission-929' in Tripura is started by

- (A) Election Commission of India
- (B) Ministry of Education
- (C) Ministry of Health
- (D) Ministry of Home Affairs

37. The States which were brought under Forest-PLUS 2.0 are

- (A) Andhra Pradesh, Bihar and Tamil Nadu
- (B) Telangana, Kerala and Bihar
- (C) Karnataka, Madhya Pradesh and Maharashtra
- (D) Nagaland, Manipur and Himachal Pradesh

38. The permanent Secretariat for G20 Nations is located at

- (A) Paris
- (B) London
- (C) No permanent Secretariat
- (D) New York

39. Which of the following statements are correct in respect of 'Competition Commission of India' ?
1. The Competition Act was enacted by Parliament in the year 2002.
  2. The Competition Act was passed on the recommendation of Manmohan Singh Committee.
  3. The Competition Act replaced Contracts Act, 1872.
  4. The Competition Act promotes and sustains competition in markets.
- (A) 1 and 4 (B) 2 and 4  
(C) 1 and 2 (D) 2 and 3
40. As per Union Budget 2023-24 presented by Finance Minister in Indian Parliament, the fiscal deficit percentage of GDP for the year 2022-23 is
- (A) 6.4 (B) 9.2  
(C) 6.7 (D) None of these
41. According to 'Prime Global Cities Index Q1 2023' which City in India ranked Sixth in the Annual Housing Price Growth among 46 Cities Globally ?
- (A) New Delhi (B) Mumbai  
(C) Bengaluru (D) Chennai
42. According to India Meteorological Department, from the years 2001 to 2020 India experienced
- (A) 7 el Nino years and 4 Drought years  
(B) 9 el Nino years and 5 Drought years  
(C) 8 el Nino years and 6 Drought years  
(D) 10 el Nino years and 7 Drought years

43. 'Meri Life App' was recently launched by Union Minister for 'Environment, Forest and Climate Change' as part of Global Mass Movement called
- (A) Vision Life (B) Task Mission  
(C) Mission LiFE (D) eCO LiFe
44. The Fourth Bilateral Exercise 'Samudra Shakti-23' was demonstrated by India and
- (A) Singapore (B) Japan  
(C) Indonesia (D) Thailand
45. During the 52nd Session of UN Human Rights Council in Geneva. A book written by Dr. M.A. Hasan was released. The title of the book is
- (A) Wise and Otherwise (B) War and Women  
(C) The Magic of the Lost Temple (D) The Bird with Golden Wings
46. Which of the following is not correct in respect of the places where the Indian Ocean Conferences were held at ?
- (A) First Indian Ocean Conference – Singapore  
(B) Third Indian Ocean Conference – Colombo (Sri Lanka)  
(C) Fourth Indian Ocean Conference – Maldives  
(D) Sixth Indian Ocean Conference – Dhaka (Bangladesh)

47. Which Manipuri Film is showcased in 76th Edition of Cannes Film Festival-2023 in France ?

(A) Ishanou

(B) Leiyeeani

(C) Khudolse Cheinani

(D) Hang Chani

48. In a forest in Southern Chile, an ancient Tree believed to be the oldest in the World with a history of more than 5000 years was found by Scientists. It's name is

(A) Methuselah

(B) Gran Abuelo

(C) Bennett Juniper

(D) Great Grandfather

49. Which of the following statement/s is/are correct in respect of 'International Moon Day' ?

1. The UN General Assembly officially declared 'International Moon Day' on every 15th December.

2. It celebrates the day as a mark of humans first walked on the Moon.

3. This is the Day when Apollo-12 landed on the Moon.

4. Neil Armstrong and Edwin Aldrin walked on the Moon for 2¼ hours.

(A) 1, 3, and 4

(B) 1, 2 and 3

(C) 2 and 4

(D) 1, 2, 3 and 4

50. Who is the author of the book "Dristipat" ?

(A) Rabindranath

(B) Sarat Chandra

(C) Bankim Chandra

(D) Jajabor

51. In India, the Right to Property ceased to be a Fundamental Right and became only a Legal Right under the

- (A) 42nd Constitution Amendment Act (B) 36th Constitution Amendment Act  
(C) 43rd Constitution Amendment Act (D) 44th Constitution Amendment Act

52. Which of the following statement is correct ?

- (A) Different cells of the body have different genetic materials.  
(B) Red blood cells carry oxygen, but are without mitochondria.  
(C) DNA duplication is not always the prerequisite of cell division.  
(D) Cell economy may mean loss of mitochondria.

53. Based on their nutrition humans are \_\_\_\_\_.

- (A) Mesotrophic (B) Oligotrophic  
(C) Autotrophic (D) Heterotrophic

54. The function of trypsin is to break

- (A) Glycosidic bond (B) Hydrogen bond  
(C) Peptide bond (D) Phosphodiester bond

55. A genetically manipulated organism containing in it's genome one or more inserted genes of another species, is called

- (A) Transposons (B) Transgenic organisms  
(C) Gene expression (D) None of these

56. An electric current is conducted through a solution by
- (A) Electrons
  - (B) Positive ions
  - (C) Negative ions
  - (D) Both positive and negative ions

57. Who proposed the Cell theory of all plants and animals ?

- (A) Singer and NicholSEN
- (B) Theodor Schwann and Matthias Jakob Schleiden
- (C) Hook and Brown
- (D) Robertson

58. Which of the following cells is involved in humoral immunity ?

- (A) T-cells
- (B) B-cells
- (C) Mast cells
- (D) Both T and B cells

59. Which of the following immunity is called the first line of defence ?

- (A) Innate Immunity
- (B) Active Immunity
- (C) Passive Immunity
- (D) Acquired Immunity

60. Alzheimer's and Osteoporosis are examples of

- (A) Communicable diseases
- (B) Degenerative diseases
- (C) Non-communicable diseases
- (D) None of these

61. In mitochondria, it contains F-particles

- (A) Matrix
- (B) Cristae
- (C) Outer layer
- (D) All of these

62. The antigens for ABO and Rh blood groups are present in
- (A) Plasma (B) White blood cells  
(C) Red blood cells (D) Platelets
63. Choose the correct answer to describe 'mass'
- (A) Mass is both vector and scalar quantity  
(B) Mass is a vector quantity  
(C) Mass is a scalar quantity  
(D) Mass is not a scalar or vector quantity
64. What is the frequency range of a normal ECG ?
- (A) 500-1200 Hz (B) 0.05-120 Hz  
(C) 120-1200 Hz (D) 70-1000 Hz
65. The use of predator to control a pest is called
- (A) Artificial control (B) Genetical control  
(C) Biological control (D) Chemical control
66. In case of emergency, which blood group could be safely transfused ?
- (A) AB Rh<sup>-</sup> (B) O Rh<sup>+</sup>  
(C) AB Rh<sup>+</sup> (D) O Rh<sup>-</sup>

67. Heat travels through a vacuum by

(A) Conduction only

(B) Convection only

(C) Radiation only

(D) Both Conduction and Convection

68. Which of the following rays is not affected by an electromagnetic field ?

(A) Gamma rays

(B) Beta rays

(C) Alpha rays

(D) None of these

69. An important function of a nuclear reactor is to produce energy through

(A) uncontrolled nuclear fission

(B) uncontrolled nuclear reactions

(C) controlled nuclear fusion only

(D) controlled nuclear fission or fusion

70. Which of the following waves cannot travel in vacuum ?

(A) Infrared Waves

(B) Infrasonic Waves

(C) Gamma Waves

(D) Radio Waves

71. Biofuels obtained from non-food crop biomass such as agriculture and forestry wastes belong to

(A) First generation biofuels

(B) Third generation biofuels

(C) Fourth generation biofuels

(D) Second generation biofuels

72. Electroweak theory which predicted that elementary subatomic particle known as the Higgs boson imparts mass to all known elementary particles was given by

(A) Sheldon Glashow, Abdus Salam, and Steven Weinberg

(B) Robert Brown and George Michell

(C) Richard Brew, Michael Strauss and James Wilson

(D) Steel Brown, McCarthy Allen and George Stroll

73. Which programming language is known for its simplicity and readability, often used for beginner-level programming ?

(A) C++

(B) Java

(C) Python

(D) Ruby

74. Which data structure follows the Last-in-First-Out (LIFO) principle ?

(A) Queue

(B) Stack

(C) Linked List

(D) Array

75. Which protocol is used for sending and receiving emails ?

(A) HTTP

(B) FTP

(C) SMTP

(D) TCP

76. Water stored in a dam possesses

(A) no energy

(B) electrical energy

(C) kinetic energy

(D) potential energy

77. If the LCM of 'a' and '18' is 36 and the HCF of 'a' and '18' is 2, then a =

- (A) 4 (B) 3  
(C) 1 (D) 2

78. The correct prime factorisation of 13915 is

- (A)  $5 \times 11^3 \times 13^2$  (B)  $5 \times 11^2 \times 13^2$   
(C)  $5 \times 11^2 \times 23$  (D) None of these

79. Two numbers are in the ratio 7 : 8. With the addition of the 4 to each of the numbers, their ratio becomes 15 : 17. The sum of the original two numbers then would be

- (A) 126 (B) 132  
(C) 120 (D) 102

80. Find the Median of the following distribution :

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| x | 5 | 7 | 4 | 8 | 9 | 6 |
| f | 8 | 9 | 6 | 3 | 7 | 4 |

- (A) 7 (B) 4  
(C) 8 (D) 9

81. For any two sets A and B,  $A \cap (A \cup B) =$

- (A) A (B) B  
(C)  $\phi$  (D) None of these

82. If A and B are two sets such that  $n(A)=70, n(B)=60, n(A \cup B)=110$  then  $(A \cup B)$  is equal to

(A) 240

(B) 50

(C) 20

(D) 40

83. For any two sets A and B,  $A \cap (A \cup B)'$  is equal to

(A) A

(B)  $\phi$

(C) B

(D)  $(A \cap B)$

84. The Median of first 10 prime numbers is

(A) 11

(B) 12

(C) 13

(D) 14

85. In an examination, 40% marks are required to pass. A candidate secured 32% marks and failed by 48 marks. The total number of marks in the examination is

(A) 600

(B) 400

(C) 300

(D) 750

86. The value of K for which the system of equations  $x-2y=3$  and  $3x+Ky=1$  has a unique solution

(A)  $K = -6$

(B)  $K = 0$

(C)  $K \neq -6$

(D) None of these

87. If  $x:y:z=2:3:4$  and  $x+2y-z=8$ , then the value of  $x+y+z$  is
- (A) 9 (B) 10  
(C) 18 (D) None of these
88. Find the smallest number which when divided by 4, 5, 6 and 8 leaves a remainder 3, but when divided by 9 leaves no remainder.
- (A) 363 (B) 723  
(C) 243 (D) 1089
89. A train 140 m long, travelling at 90 km/hour will overtake another train of length 160 m which is moving in the same direction at 72 km/hour in
- (A) 12 sec (B) 15 sec  
(C) 30 sec (D) 1 min
90. The average weight of a class of 15 students is 32 kg. What is the average weight of another class of 20 students, if the average weight of both the classes is 28 kg?
- (A) 30 kg (B) 25 kg  
(C) 24 kg (D) 20 kg
91. If the base and height of a parallelogram are  $6\sqrt{2}$  cm and  $12\sqrt{2}$  cm respectively, the area of the parallelogram is
- (A) 144 sq. cm (B) 72 sq. cm  
(C)  $72\sqrt{2}$  sq. cm (D) None of these

92. One man and one woman can do the work in 10 days. Two men can do the work in 8 days. In how many days one woman alone can do the work ?

(A)  $26\frac{2}{3}$

(B)  $13\frac{1}{3}$

(C) 40

(D) 24 days

93. At what rate per cent per annum will ₹ 32,000 yield a compound interest of ₹ 5,044 in 9 months, interest being compounded quarterly ?

(A) 16%

(B) 20%

(C) 24%

(D) 12%

94. What is the least number which when increased by 5 is exactly divisible by 28, 36, 63, 108, ?

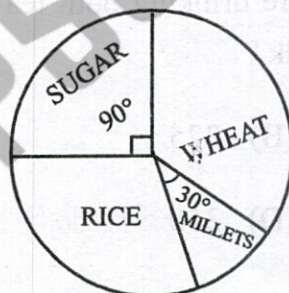
(A) 761

(B) 751

(C) 756

(D) 765

95. The Pie-chart below represents the annual agricultural production of a State. If the production of sugar is 3000 tons, what is the total production of Rice and Wheat ?



(A) 8000 tons

(B) 6000 tons

(C) 4000 tons

(D) 3000 tons

96. Find the area of a quadrilateral whose one of its diagonal is 20m and the length of the perpendicular upon it from the opposite corners are 5m and 6m respectively.
- (A) 100 sq. m (B) 120 sq. m  
(C) 110 sq. m (D) 95 sq. m
97. A bag contains rupee-coins, 50-paise coins and 25-paise coins in the ratio of 2:3:10; and their total is ₹ 72. Then the total number of coins is
- (A) 100 (B) 120  
(C) 180 (D) None of these
98. In an election between two candidates, one got 55% of the total valid votes. 20% of the votes are invalid. If the total votes are 7500, what is the number of valid votes that the other person got?
- (A) 3100 (B) 2900  
(C) 3000 (D) 2700
99. In a survey of 600 students in a school, 150 students were found to be drinking tea and 225 drinking milk and 100 students were drinking both tea and milk. How many students were drinking neither tea nor milk?
- (A) 300 (B) 325  
(C) 320 (D) 350
100.  $\sqrt{1024} + 27\%$  of 1040 =
- (A) 321.8 (B) 281.3  
(C) 312.8 (D) 314.8

## SECTION – II

101. Answer any *five* (5) questions out of six questions given below. Select correct answer and write in answer script from the options given below : 1×5=5

**Example :** The Capital of India is

- (A) Delhi (B) New Delhi  
(C) Indraprastha (D) None of these

**Answer :** (B) New Delhi.

- (i) What is the main source of anthropogenic (human-caused) greenhouse gas emissions ?

- (A) Volcanic activity (B) Ocean currents  
(C) Fossil fuel combustion (D) Natural wetlands

- (ii) Which of the following is a potential consequence of biodiversity loss ?

- (A) Increased ecosystem resilience  
(B) Enhanced ecosystem services  
(C) Improved air quality  
(D) Disruption of food chains and ecosystems

- (iii) Acid rain is primarily caused by the release of

- (A) Carbon dioxide  
(B) Methane  
(C) Sulfur dioxide and nitrogen oxides  
(D) Volatile organic compounds (VOCs)

- (iv) Which Legislation in the United States regulates water pollution by establishing wastewater standards for industries ?

- (A) Clean Air Act (B) Clean Water Act  
(C) Endangered Species Act (D) Safe Drinking Water Act

(v) What is the term for the area of the ocean where oxygen levels are extremely low due to pollution and excessive nutrient runoff?

(A) Dead zone

(B) No-go zone

(C) Marine sanctuary

(D) Oxygen-rich zone

(vi) What is the term for the process of chemicals from polluted land seeping into groundwater?

(A) Deforestation

(B) Erosion

(C) Leaching

(D) Desalination

102. Answer any *five* of the following Very short type questions – (each question carries 2 marks) 2×5=10

(i) What is Albedo Effect?

(ii) How the Environment Protection Act of India is linked with the Stockholm Conference?

(iii) What is Agenda 21 of the United Nations?

(iv) Differentiate between Alpha and Beta Diversity.

(v) What is Gaia Hypothesis?

(vi) Is human population growth logistic or exponential? Explain.

103. Answer any *two* of the following Short questions – (each question carries 5 marks) 2×5=10

(i) What are the five statements on climate action strategies made by Hon'ble Prime Minister of India during COP26 Summit at Glasgow in November, 2021?

(ii) Give a brief account of the impact of global climate change on biodiversity.

(iii) What do you mean by Solid waste management? Write 3-R principles of Industrial waste management with a suitable example.

### SECTION – III

104. Answer any *five* (5) questions out of six (6) questions (Each question carries 1 mark)  
Select the correct answer and write in answer script from the options given below :

1×5=5

**Example :** The Independence Day in India is celebrated on

- (A) the 15th August, every year                      (B) the 26th January, ever year  
(C) the 14th August every year                      (D) the 20th August every year

**Answer :** (A) the 15th August, of every year.

(i) A hazard is a situation where there is

- (A) Threat of natural calamity  
(B) Threat to property and lives from calamities  
(C) Threat for consequences of disaster  
(D) All of the above

(ii) Seismograph is used for

- (A) To measure speed of cyclone                      (B) To measure earthquake  
(C) To measure rainfall                      (D) To measure charge on any metal rod

(iii) Which is the main cause of cholera ?

- (A) Water pollution                      (B) Floods  
(C) Air pollution                      (D) Poor nutrition

(iv) Who among the following is the first to respond when a disaster strikes ?

- (A) N.G.O.                      (B) Local community members  
(C) Affected community members                      (D) Local administration

(v) Disaster management plan was launched by Ministry of Home affair in

(A) 2006

(B) 2018

(C) 2016

(D) 2020

(vi) The Chernobyl disaster of 1986 in Ukraine was a case of

(A) Epidemic disaster

(B) Toxic gas disaster

(C) Nuclear disaster

(D) None of these

105. Answer any *five* of the following questions :

2×5=10

- (i) What are the major natural hazards in the State of Tripura ?
- (ii) State the precautionary measures to mitigate riverbank erosion.
- (iii) How important is hazard mapping for disaster preparedness ?
- (iv) What is hazard preparedness ?
- (v) Explain the role of Community in Disaster Management.
- (vi) Discuss the role of the local administrators in flood management.

106. Answer any *two* of the following questions :

5×2=10

- (i) Explain the factors responsible for flood hazard with suitable example from Tripura.
- (ii) North-East India is highly vulnerable to earthquakes. Discuss the reason.
- (iii) What are the factors responsible for the tropical storms ?

*(Space for rough work)*

TPSCNOTES.COM