TR/STCSPT/GS-I/TPSC/21

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.
- 2. ENCODE CLEARLY THE TEST BOOKLET SERIES IN THE APPROPRIATE PLACE IN THE ANSWER SHEET BY BLACK BALL POINT PEN ONLY.
- 3. (a) This Test 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 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 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 inivigilator only. You are permitted to take 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.

TR/STCSPT/GS-I/TPSC/21

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** 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)

| | 9 |
|--|---|
| | |

(C) (D)

SECTION - I

- 1. Choose one word out of the given alternatives, which can not be formed from the letters of the word 'INTERNATIONAL'.
 - (A) LATTER

(B) TERMINAL

(C) ORIENTAL

- (D) RATIONALE
- 2. Select the combination of numbers, so that letters arranged accordingly will form a meaningful word

H L R A O C S

1 2 3 4 5 6 7

- (A) 1, 2, 3, 4, 5, 6, 7
- (B) 7, 6, 5, 1, 4, 2, 3
- (C) 7, 6, 1, 5, 2, 4, 3
- (D) 7, 6, 5, 1, 2, 4, 3
- 3. Which letter will be in the middle between 6th letter from the left and 13th letter from the right in the English alphabet sequence?
 - (A) K

(B) L

(C) J

(D) O

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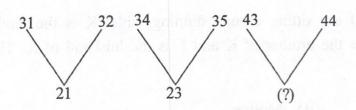
(3)

[Turn over

| | how 23549 is written in that code | ? | |
|------|---|--------|---|
| | (A) NPTUL | (B) | PNTSL |
| | (C) NBTSL | (D) | NPTSL |
| 5. | The missing number in the sequence 2, 3, 5, 7, (?), 13, 17, is: | ce | |
| | (A) 8 | (B) | 9 |
| | (C) 11 | (D) | 12 |
| 6. | If E = 5, PEN = 35, then PAGER | is e | qual to |
| | (A) 47 | (B) | 39 |
| | (C) 58 | (D) | 67 |
| 7. | In the following identify the correct | tly re | lated word in '?' position. |
| | Cattle: Herd:: Sheep:? | | |
| | (A) Flock | (B) | Swarm |
| | (C) Shoal | (D) | Mob |
| 8. | 15 hours will be equal to | | of the halfgree of the first south from the |
| | (A) 50,000 seconds | (B) | 48,000 seconds |
| | (C) 54,000 seconds | (D) | 60,000 seconds |
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| | | | |

4. In a certain code, 15789 is written as XTZAL and 2346 is written as NPSU. Then

- 9. Which of the following represent the same relationship as 'OFTEN' has with 'FOTNE'?
 - (A) HEART: TRAHE
- (B) OPENS : SNEOP
- (C) RISKY: IRSYK
- (D) FIRST: IFRST
- 10. Find the missing number in the following figure in '?' position:



(A) 27

(B) 29

(C) 28

- (D) 30
- 11. Find the missing term in the series

YEB, WFD, UHG, SKI, ?

(A) QOL

(B) QGL

(C) TOL

- (D) QNL
- 12. If 'a' and 'b' are two non-zero numbers such that a b = b a then
 - (A) a = -b

(B) a = 2b

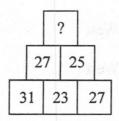
(C) b = 2a

- (D) a = b
- 13. Arrange the given words in a meaningful sequence and then choose the most appropriate sequence from the options
 - (1) Colonel
- (2) Major
- (3) Lieutenant General

- (4) Captain
- (5) Lieutenant
- (A) (5), (4), (2), (1), (3)
- (B) (3), (4), (5), (2), (1)
- (C) (1), (2), (5), (3), (4)
- (D) (5), (4), (2), (3), (1)

| 14. | in-law's father-in-law". How is the | man related to the woman? |
|------|---|---|
| | (A) Father | (B) Brother |
| | (C) Husband | (D) Father-in-law |
| 15. | | e sitting around dinning table. K is the mother brother of K and L is the husband of K. There |
| | (A) Sister | (B) Mother |
| | (C) Mother-in-law | (D) Brother-in-law |
| 16. | If $x^2 + y^2 + z^2 = 0$ with x, y, z as re | al numbers, then |
| | (A) Two numbers are negative and | one is positive |
| | (B) Two numbers are positive and | one is negative |
| | (C) All the three numbers are posit | ive |
| | (D) $x = y = z = 0$ | |
| 17. | Total number of days in the year 20 | 024 will be |
| | (A) 365 days | (B) 366 days |
| | (C) 367 days | (D) 364 days |
| 10 | A 611-14 | ne Cercott |
| 18. | A 'light year' is the measurement of | |
| | (A) Time | (B) Distance |
| | (C) Temperature | (D) Intensity of light |
| 1/TR | /STCSPT/GS-I/TPSC/21/C-140 | (6) |
| | | |

19. Insert the missing value in '?' position in the figure



(A) 26

(B) 25

(C) 27

(D) 24

20. If a bucket contains apples, oranges and bananas in the ratio 3:5:7 and the total number of these three fruits is 45, then the total number of oranges is

(A) 30

(B) 25

(C) 15

(D) 20

21. If a clock strikes once at 1 O'clock, twice of 2 O'clock etc., How many times will it strike in 24 hours?

(A) 300

(B) 156

(C) 78

(D) 136

22. If p, q, r, s and t are positive numbers and it is given that

$$p+q=r+s, q+s=2t$$

$$s+t>p+q$$
 and $r+s>p+t$

then which of the following statement is true?

(A) s>p>q>t>r

(B) s>q>t>p>r

(C) p>q>r>s>t

(D) p>s>q>t>r

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(7)

[Turn over

| 23. | If X | is | to | the | south | of | Y | and | Z | is | to | the | East | of | Y, | in | what | direction | is | X | with |
|-----|-------|----|----|------------|-------|----|---|-----|---|----|----|-----|------|----|----|----|------|-----------|----|---|------|
| | respe | ct | to | Z ? | | | | | | | | | | | | | | | | | |

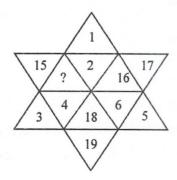
(A) North-East

(B) North-West

(C) South-East

(D) South-West

24. Insert the missing number in '?' mark in the given figure



(A) 13

(B) 14

(C) 20

(D) 21

25. How many different letters are there in the word "MATHEMATICS"?

(A) 7

(B) 8

(C) 9

(D) 10

26. The name 'Sea of Tranquality' is given to

- (A) Atlantic Ocean
- (B) An area in Mars
- (C) A water less area on Moon's surface
- (D) Pacific Ocean

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| | 27. Fill in the blanks with options | given below: | |
|----|---|---|-------------------|
| | Currently, has the largest of oil. | t reserves of oil, while is the | largest producer |
| | (A) Saudi Arabia, Venezuela | (B) Venezuela, Saudi Arabia | |
| | (C) Nigeria, Russia | (D) Russia, Nigeria | no 8 (22 (3) |
| | 28. Which of the following statement | ents regarding the Nobel Peace Prize | ze are correct? |
| | (i) Switzerland-based Internation3-time recipient of the Not | onal Committee of the Red Cross (Ideal Prize. | CRC) is the only |
| | (ii) Jean Henry Dunant and Fred | leric Passy is joint recipient of first N | obel Peace Prize. |
| | (iii) Nadia Murad Basee Taha is Peace Prize in the year 20 | an Iraqi Yazidi human rights activis 14. | t received Nobel |
| | | s awarded to the Organisation for the correct answer from the codes | |
| | (A) (i), (ii) and (iii) only | (B) (i), (ii) and (iv) only | South (A) |
| | (C) (ii) (iii) and (iv) only | (D) (i), (ii), (iii) and (iv) all | are correct |
| 2 | 29. Which of the following country d | loes not hold veto power in the UN So | ecurity Council? |
| | (A) China | (B) France | |
| | (C) Germany | (D) Russia | |
| 3 | 0. United Kingdom left the Europea are there in the European Union | [18] 이 18 전 : 18] 18 전 | and Maria Made |
| | (A) 25 | (B) 26 | |
| | (C) 27 | (D) 28 | |
| 1/ | TR/STCSPT/GS-I/TPSC/21/C-140 | (9) | [Turn over |
| | | | |

| | no is the Padma Shree awardee from | | e State of Tripura recognised for exceptional ation? |
|----------|--|-------|--|
| (A) | Shri Tanga Darlong | | |
| (B) | Shri Benichandra Jamatia | | |
| (C) | Sri Somdev Kishore DevVarma | an | |
| den di | Dr. Rathindra Dutta o is the founder and current CI | EO o | f Amazon? |
| (A) | Bill Gates | (B) | Larry Page |
| (C) | Elon Musk | (D) | Jeff Bezos |
| | di Arabia opened borders for tra- | ding | with which of the following countries after |
| (A) | Iraq | (B) | Jordan |
| (C) | Yeman | (D) | Oman |
| 34. In o | our world, currently there are ab | out _ | people. |
| (A) | 6.8 billion | (B) | 7.8 billion |
| (C) | 8.8 billion | (D) | 9.8 billion |
| | a Nirbhar Bharat Abhiyan annot ch is equivalent to how much o | | economic package of Rs. 20 lakh crores lia's GDP? |
| (A) | 5% | (B) | 10% |
| (C) | 7% | (D) | 9% |
| 1/TR/STC | CSPT/GS-I/TPSC/21/C-140 | (10 | |

| 36. | Prime Minister Narendra Modi on October 15th, 2020 released a commemorative coin of — denomination to mark the 75th anniversary of the Food and Agriculture Organisation. |
|------|---|
| | (A) Rs. 50 (B) Rs. 75 |
| | (C) Rs. 100 (D) Rs. 200 |
| | |
| 36. | 'DakPay' app is a digital payment app launched by |
| | (A) Information and Broadcast Ministry |
| | (B) National Payment Corporation of India |
| | (C) India Post |
| | (D) State Bank of India |
| 38. | Which of the following commercial banks topped EASE 2.0 Banking Reforms Index (March, 2018-2020)? |
| | (A) Bank of Baroda (B) Punjab National Bank |
| | (C) State Bank of India (D) Canara Bank |
| 39. | In which of the following States, maximum Coast Guard Stations have been established in India? |
| | (A) Maharashtra (B) Tamilnadu |
| | (C) Gujarat (D) Andhra Pradesh |
| 40. | Which State's assembly passed a resolution to abolish the Legislative Council in January, 2020? |
| | (A) Telangana (B) West Bengal |
| | (C) Andhra Pradesh (D) Maharashtra |
| 1/TR | /STCSPT/GS-I/TPSC/21/C-140 (11) [Turn over |

| 41. | The | Raja Ampat Coral Reef is local | ated i | in which country? |
|------|------|----------------------------------|--------|--|
| | (A) | India | (B) | Indonesia |
| | (C) | Maldives | (D) | Sri Lanka |
| 42. | Hov | v many times India wins the "(| Crick | et World Cup Champion" title? |
| | (A) | One | (B) | Two |
| | (C) | Three | (D) | Four |
| 43. | Indi | a aims to achieve the 5 trillion | dolla | ar economy target by |
| | | 2022 A.D. | | 2024 A.D. |
| | (C) | 2025 A.D. | (D) | 2026 A.D. |
| 44. | | an Navy launched 'Operation Van | nilla' | in January 2020, in which of the following |
| | (A) | Sri Lanka | (B) | Maldives |
| | (C) | Madagascar | (D) | Oman |
| 45. | Whe | re is the "Hazur Sahib" Gurudw | ara, | one of the five Takht of Sikhism located? |
| | (A) | Amritsar | (B) | Patna |
| | (C) | Nanded | (D) | Bhatinda |
| 46. | Whic | ch company will launch Libra ca | rypto | currency in 2021? |
| | (A) | Instagram | (B) | Google |
| | (C) | Microsoft | (D) | Facebook |
| 1/TR | /STC | SPT/GS-I/TPSC/21/C-140 | (12) | |

| 47. Which of the follow | ing is India's first Kisan Rail? | |
|---|-------------------------------------|---------------------------------|
| (A) Devlali-Danapur | Kisan Rail | |
| (B) Anantpur-Adarsh | n Nagar Kisan Rail | |
| (C) Yashwantpur - Aji | mer Kisan Rail | |
| (D) Bhatinda-Bhopal | Kisan Rail | |
| 48. In which region Hen | nis Gompa is located in India? | |
| (A) Sikkim | (B) Ladakh | |
| (C) Gwalior | (D) Nagpur | |
| | | |
| 49. Which of the followin City Index 2020? | g cities has got top position among | g Indian cities in Global Smart |
| (A) New Delhi | (B) Mumbai | |
| (C) Hyderabad | (D) Bengaluru | |
| 50. Which of the following man's Kathakali? | ng dances of Kerala was called | by Jawaharlal Nehru as Poor |
| (A) Chavittunatakom | (B) Kolkalli | |
| (C) Ottamthullal | (D) Kootiyattam | |
| 51. Out of the given opt | ions, which is not an insert gas | Touris es contra anno 21 |
| (A) Freon | (B) Argon | |
| (C) Neon | (D) Xenon | |
| 1/TR/STCSPT/GS-I/TPSC/21 | /C-140 (13) | [Turn over |

| 47. | Whi | ch of the following is India's f | first k | Kisan Rail? | |
|------|-------|--|---------|---------------|-------------------------------|
| | (A) | Devlali-Danapur Kisan Rail | | | |
| | (B) | Anantpur-Adarsh Nagar Kisan | Rail | | |
| | (C) | Yashwantpur-Ajmer Kisan Rail | | | |
| | (D) | Bhatinda-Bhopal Kisan Rail | | | |
| | | | | | |
| 48. | In v | which region Hemis Gompa is l | ocate | d in India? | |
| | (A) | Sikkim | (B) | Ladakh | |
| | (C) | Gwalior | (D) | Nagpur | |
| | | | | | |
| 49. | | ch of the following cities has got Index 2020? | top p | | Indian cities in Global Smart |
| | (A) | New Delhi | (B) | Mumbai | |
| | (C) | Hyderabad | (D) | Bengaluru | |
| 50. | | ch of the following dances of Is's Kathakali? | Kerala | was called b | y Jawaharlal Nehru as Poor |
| | (A) | Chavittunatakom | (B) | Kolkalli | |
| | (C) | Ottamthullal | (D) | Kootiyattam | |
| 51. | Out | of the given options, which is | not a | n insert gas? | SV. Who among the rellowing |
| | (A) | Freon | (B) | Argon | |
| | (C) | Neon | (D) | Xenon | |
| 1/TF | Z/STC | CSPT/GS-I/TPSC/21/C-140 | (13 | 3) | [Turn over |

| 52. | . What is the chemical name of bac | king | soda? |
|------|--|-------|---|
| | (A) Potassium Chloride | (B) | Potassium Carbonate |
| | (C) Sodium Bicarbonate | (D) | Sodium Chloride |
| 53. | . Pasturization of milk is done at | | |
| | (A) 100°F | (B) | 71°F |
| | (C) 110°F | (D) | 161°F |
| 54. | 1 Nibble is equal to | | |
| | (A) 8 Kilo Bytes | (B) | 8 Bytes |
| | (C) 4 Bytes | (D) | 4 Bits |
| | aptiblizas (t. 2004) di Attenzia di su su su | | |
| 55. | What is the pH of human blood? | | |
| | (A) 7 | (B) | 7.4 |
| | (C) 0.7 | (D) | 6.8 |
| 56. | What is the device used to measur | e the | diameters of stars? |
| | (A) Inter-ferometer | (B) | Seismometer |
| | (C) Odometer | (D) | Pedometer |
| 57. | Who among the following has immer is often termed as 'Father of Fibre | | ontribution in fibre-optic communication and cs'? |
| | (A) Somender Singh Kapany | (B) | Fancois Mitterand |
| | (C) Charles Chako | (D) | Narinder Singh Kapany |
| 1/TR | //STCSPT/GS-I/TPSC/21/C-140 | (14 | 4) |
| | | | |

| 58. Which of the following mirror is used by a dentist to examine a small cavity? |
|--|
| (A) Concave mirror (B) Plane mirror |
| (C) Convex mirror (D) Combination of convex and concave mirror |
| 59. Which of the following is part of National Health Mission of India? |
| (A) PMAY (B) PMSMA |
| (C) PMGSY (D) PMUY |
| (C) Pretence of material A and observe of suchan B |
| 60. The instrument "Cryometer" is used to measure |
| (A) Low pressure of objects |
| (B) Low temperature of objects |
| (C) Measuring the pH of tears of eyes |
| (D) Measuring the pH of body sweat |
| 61. The operating system "LINUX" stands for |
| (A) Lovable Intellect Not Using XP |
| Fig. 1. State of the state of t |
| (B) Loadable Intellect Not Using XP |
| (C) Learning of UNIX |
| (D) None of the above |
| 62. To combat the problem of fake printing of passports and counterfeiting of currency notes, a security 'Bi-Fluorescent Golden Ink' with dual emissive luminescent pigment (red and green) was recently discovered by |
| (A) CSIR-NCL, Pune (B) CSIR-NPL, New Delhi |
| (C) CSIR-NISTADS, New Delhi (D) CSIR-IICT, Hyderabad |
| 1/TR/STCSPT/GS-I/TPSC/21/C-140 (15) [Turn over |
| |

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| | (A) A French word means billion | (B) | A Spanish word means particle |
|---------|--------------------------------------|--------|---------------------------------|
| | (C) A Latin word means invisible | (D) | A Greek word means dwarf |
| - 4 | | | |
| 64. | In the ABO system, blood group 'C |)' 1S | characterized by the |
| | (A) Presence of antigen O | | |
| | (B) Presence of both antigen A and | d anti | gen B |
| | (C) Presence of antigen A and absorb | ence | of antigen B |
| | (D) Absence of both antigen A and | l anti | gen B |
| <i></i> | TT' 1 | | oc : |
| 65. | High protein diet is given to person | | Carrie a ser estructuração como |
| | (A) Chirrhosis | (B) | Gout |
| | (C) Tuberculosis | (D) | Jaundice |
| 66. | Which of the following is not a mi | icro-n | utrient ? |
| | (A) Zinc | | Calcium |
| | (C) Boron | | Molyddenum |
| | (6) 201011 | (2) | 17101y ddollarii |
| 67. | Nuclear energy is obtained by the o | hemi | cal process |
| | (A) Fusion | (B) | Fission |
| | (C) Both of (A) and (B) | (D) | None of them |
| | | | |
| 68. | Melting temperature of DNA is the | temp | perature at which |
| | (A) DNA melts completely | (B) | 50% of the DNA is denatured |
| | (C) 80% of the DNA is denatured | (D) | None of these |
| 1/TR | VSTCSPT/GS-I/TPSC/21/C-140 | (16 | 5) |

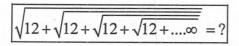
63. The prefix "Nano" comes from

| 69. Which of the following subs | stance predominantly found in urine? | |
|--|---|----------|
| (A) Blood proteins | (B) Creatinine | |
| (C) Red Blood cells | (D) White Blood cells | |
| 70. The Sun's mass mainly cons | sists of | |
| (A) Hydrogen | (B) Helium | |
| (C) Carbon dioxide | (D) Silicon | |
| 71. Which of the following gas | has highest contribution in Global Warming? | |
| (A) Carbon dioxide | (B) Chlorofluorocarbon | |
| (C) Nitrous oxide | (D) Methane | |
| 72. The study of images of deit | ties falls within a branch of art history called | |
| (A) Pictography | (B) Lithography | |
| (C) Ichthyography | (D) Iconography | |
| 73. 'We Think Digital' is a dicompany? | igital literacy program of which global technological | ological |
| (A) Google | (B) Facebook | |
| (C) Apple | (D) Amazon | |
| 74. Ambulatory monitoring of E | ECG is called | (4) |
| (A) Event Cardiography | (B) Holter Cardiography | |
| (C) Implantable Cardiograph | y (D) Real-Time Cardiography | |
| 1/TR/STCSPT/GS-I/TPSC/21/C-140 | (17) [To | urn over |

| | (A) | Hepatitis B | (B) | Polio |
|-----|-------------------|--|-----------|---|
| | (C) | Varicella | (D) | Measles, mumps and rubella (MMR) |
| 76. | The | sum of the face value and pla | ice va | alue of 7 in 343742 is |
| | (A) | 693 | (B) | 700 |
| | (C) | 770 | (D) | 707 |
| 77. | The | speed of a train is X km/hr. I | ts spe | eed in m/sec will be |
| | (A) | 5X/18 | (B) | 8X/15 |
| | (C) | X/18 | (D) | X/15 |
| 78. | equa and | al to the number of seats in each row | h row | ows and columns. The number of rows was when the number of rows was doubled reduced by 10, the total number of seats ats in the auditorium after rearrangement. |
| | (A) | | (B) | 900 |
| | (C) | 1200 | (D) | 1500 |
| 79. | If 1 ² | $x^2 + 2^2 + 3^2 + \dots + 20^2 = 2870$, then | $2^2 + 4$ | $4^2 + 6^2 + \dots + 40^2 = ?$ |
| | (A) | 11070 | (B) | 11480 |
| | (C) | 12070 | (D) | 14035 |
| | | | | |
| /TR | /STC | SPT/GS-I/TPSC/21/C-140 | (18) | |

75. Which vaccine is given soon after birth of an infant?

80. Find the value of



(A) 3

(B) 4

(C) 6

(D) 12

81. In a row 'A' is in the 11th position from the left and 'B' is in the 10th position from the right. If 'A' and 'B' interchange, then 'A' becomes 18th from the left. How many persons are there in the row other than 'A' and 'B'?

(A) 27

(B) 26

(C) 25

(D) 24

82. Excluding stoppages, the speed of a bus is 54 kmph and including stoppages, it is 45 kmph. For how many minutes does the bus stop per hour?

(A) 9

(B) 10

(C) 12

(D) 20

83. The difference between the interest received from the different banks on Rs. 500 for two years is Rs. 2.50 and the difference between their rates is

(A) 12%

(B) 15%

(C) 25%

(D) 27%

84. Find the number which is not lying between 1/3 and 3/4

(A) 7/16

(B) 13/24

(C) 9/32

(D) 31/48

1/TR/STCSPT/GS-I/TPSC/21/C-140

(19)

[Turn over

| 85. | If the radius of a circle is diminish | hed b | y 20%, the area is diminished by |
|------|---|---------|---|
| | (A) 25% | (B) | 30% |
| | (C) 36% | (D) | 40% |
| 86. | The difference between the simple if for 3 years at 10% per annum is Rs. | interes | st and compound interest on a certain sum Then, which of the following is the sum? |
| | (A) Rs. 1,500 | (B) | Rs. 1,600 |
| | (C) Rs. 1,700 | (D) | Rs. 1,800 |
| 87. | The least number to be added to 8 | 7621 | ×87627 to become perfect square is |
| | (A) 6 | (B) | 9 |
| | (C) 11 | (D) | 13 |
| 88. | Father's age is 4 times of his son's a his son's age. Then their current ag | age to | day. Five years hence, father will be thrice |
| | (A) 60, 15 | (B) | 40, 10 |
| | (C) 20, 5 | (D) | 32, 8 |
| 89. | The ratio of the areas of a regular h is | exago | n and a square having the same perimeter |
| | (A) 2√3:3 | (B) | √3:2 |
| | (C) 3√3:2 | (D) | 3:2 |
| 90. | The ratio of simple interest earned for 6 years and that of 9 years is | by ce | rtain amount of the same rate of interest |
| | (A) 1:3 | (B) | 1:4 |
| | (C) 2:3 | (D) | None of these |
| 1/TR | /STCSPT/GS-I/TPSC/21/C-140 | (20) | |

| 91. | 1. If the sum of 3 consecutive odd numbers is 51, the least of three is | | |
|-----|---|--|--|
| | (A) 9 | (B) 15 | |
| | (C) 17 | (D) 21 | |
| 92. | 380 mangoes are distriboy gets four mango | ributed among some boys and girls who are 85 in number. Each es and each girl gets five mangoes. the number of boys is | |
| | (A) 15 | (B) 38 | |
| | (C) 40 | (D) 45 | |
| 93. | Which among the nu | embers $2\sqrt{31}$, $3\sqrt{5}$, $5\sqrt{29}$ and $4\sqrt{3}$ is least? | |
| | (A) $5\sqrt{29}$ | (B) $3\sqrt{5}$ | |
| | (C) 2√31 | (D) $4\sqrt{3}$ | |
| 94. | Two pipes can fill a are opened simultane | tank in 20 minutes and 30 minutes respectively. If both pipes ously, then the tank will be filled in | |
| | (A) 10 minutes | (B) 12 minutes | |
| | (C) 15 minutes | (D) 25 minutes | |
| 95. | The area of a square | e inscribed in a circle of radius 4 cm is | |
| | (A) 32 sq.cm | (B) 18 sq.cm | |
| | (C) 25 sq.cm | (D) 64 sq.cm | |
| 96. | Two sides of a trian the area of the trian | gle are 85 cm and 154 cm and the perimeter is 324 cm. Then gle is | |
| | (A) 7216 cm ² | (B) 1350 cm^2 | |
| | (C) 1431 cm ² | (D) 2772 cm ² | |
| 1/T | R/STCSPT/GS-I/TPSC/2 | 1/C-140 (21) [Turn over | |

| 97. | The | greatest positive integer l | ess than 4 | 18 and | divisible by 31 | is |
|-----|------|--|-------------|----------|--------------------|--------------------|
| | (A) | 407 | (B) | 403 | | |
| | (C) | 372 | (D) | 341 | | |
| 98. | | average of 4 numbers is 2 4th number is | 25 and the | average | e of 3 of these no | umbers is 30. Ther |
| | (A) | 20 | (B) | 10 | | |
| | (C) | 27 | (D) | 22 | | |
| 99. | | ne arithmetic mean and ge | cometric me | ean of | two positive nun | nbers m and n are |
| | (A) | m = n | (B) | m > n | | |
| | (C) | m = 2n | (D) | m = 41 | n | |
| 100 | . If | the 20% of 30% of 40% | of a numb | per is 2 | 4, then the num | ber is |
| | (A) | 600 | (B) | 1000 | | |
| | (C) | 500 | (D) | 250 | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

SECTION - II

| | | six questions given below. Select the correct the options given below: $1\times5=5$ | | | | |
|--------------------------------|--|---|--|--|--|--|
| Example: The Indep | endence Day in In | dia is celebrated on | | | | |
| (a) the 15th Aug | gust, every year | (D) Bons Convention — Protection | | | | |
| (b) the 26th Jan | (b) the 26th January, every year | | | | | |
| (c) the 14th Aug | (c) the 14th August every year and the same to the month and the same of the s | | | | | |
| (d) the 20th Aug | ust every year | (A) chlorine | | | | |
| Answer: (a) the 15th | August of every ye | ear. | | | | |
| (i) How much amour diesel? | nt of sulphur is per | missible in Bharat Stage (BS) IV petrol and | | | | |
| (A) 40 ppm | 1016 (B) | 50 ppm and sup (E) silvers sowerA 10 | | | | |
| (C) 45 ppm | (D) all call Project | 60 ppm | | | | |
| (ii) Where the Nation | | earch Centre is located? | | | | |
| (A) Andaman and | d Nicobar Islands | | | | | |
| (B) Kachchh | | nitely bear (1991) to area that now (iii) | | | | |
| (C) Thoothukudi | (Tuticorin) | | | | | |
| (D) Lakshadweep | | | | | | |
| (iii) Out of the followi | ng countries which | country has the highest population density? | | | | |
| (A) Barbados | (B) | Malta | | | | |
| (C) Bahrain | (D) | Mauritius | | | | |
| (iv) Arrange the follow (GWP): | ving gases in descen | ding order of their Global Warming Potential | | | | |
| (i) Sulfur Hexaf | luoride (ii) | Nitrous Oxide | | | | |
| (iii) CFC | (iv) | Methane | | | | |
| (A) (i), (iii), (ii), | (iv) (B) | (iv), (ii), (iii), (i) | | | | |
| (C) (i), (ii), (iii), | (iv) (D) | (iv), (iii), (ii), (i) | | | | |
| 1/TR/STCSPT/GS-I/TPSC/21/ | C-140 (2 | 3) [Turn over | | | | |

- (v) Which of the following pairs is correctly matched?
 - (A) Cartagena Protocol Biosafety to the convention on Biological Diversity
 - (B) Ramsar Convention Procedure for certain hazardous chemicals
 - (C) Vienna Convention Wetlands
 - (D) Bonn Convention Protection of ozone layer
- (vi) Aerobic degradation of organic matters by bacteria releases
 - (A) chlorine

- (B) hydrogen
- (C) hydrogen sulphide
- (D) carbon dioxide

 $2 \times 5 = 10$

Very short answer type questions:

- 102. Answer any five (5) questions out of six (6) questions (Each question carries 2 marks):
 - (i) Mention the main objective of Montreal Protocol.
 - (ii) What is the full form of SEIAA and SEAC as per Environment (Protection) Rules 1986?
 - (iii) Write full form of BOD and define it.
 - (iv) Why is the energy pyramid always erect?
 - (v) Why does increase in atmospheric CO₂ concentration causes global warming?
 - (vi) Define 'Biomagnification'.

Short answer type questions:

- 103. Answer any two (2) questions out of three (3) questions. (Each question carries 5 marks): 5×2=10
 - (i) Write a short note on E-waste management rules enacted in 2016.
 - (ii) What is biogas? How is it produced? What are the barriers to increase the production and use?
 - (iii) Explain with examples the Mitigation and Adaption measures relating to climate change.

| [18] [18] 이 아는 다양된 이 보다 되게 되는 것 같아. [18] [18] [18] [18] [18] [18] [18] [18] | s out of six (6) questions (Each question carries 1 mark) I write in answer script from the options given below: 1×5=5 |
|---|---|
| Example: The Independence | e Day in India is celebrated on |
| (a) the 15th August, ev | |
| (b) the 26th January, e | very year |
| (c) the 14th August ev | ery year (1) |
| (d) the 20th August eve | |
| Chack hording carries 2 marks) | Of Australia (a) questions out of six (a) questions |
| Answer: (a) the 15th Augu | sk of every year. |
| | vulnerable to the second many standard (ii) |
| - | |
| | (B) Earthquake |
| (C) Cyclone | (D) Landslide |
| | ter Management Act was promulgated in India? |
| (A) 2004 | (B) 2005 |
| (C) 2006 | (D) 2007 |
| (iii) India has a Coast line of | |
| (A) 6256 km | (B) 6516 km |
| (C) 7516 km | (D) 7250 km |
| (iv) In which year the Bhop | al Gas disaster occurred? |
| (A) 1984 | (B) 1983 |
| (C) 1985 | (D) 1986 |
| 1/TR/STCSPT/GS-I/TPSC/21/C-140 | (25) [Turn over |

(A) President of India (B) Prime Minister of India (C) Union Home Minister (D) Union Defence Minister 105. Answer any five (5) questions out of six (6) questions (Each question carries 2 marks): $2 \times 5 = 10$ Define magnitude and intensity of earthquake disaster. (ii) What are four phases of disaster management cycle? (iii) What is Rainwater Harvesting and Artificial Recharge to Groundwater? Name any two types of Groundwater Recharging structures. (iv) Name any four structural and non-structural measures of Cyclone Risk Mitigation. (v) What is vulnerability, in connection with climate change? (vi) Explain Community Based Disaster Management. 106. Answer any two (2) questions out of three (3) questions (Each question carries 5 marks): (i) Name the measures taken/to be taken in India to reduce the impact of Earthquake? What is seismic (Earthquake) retrofitting and how will it be useful? (ii) What is Disaster Risk Reduction (DRR) and explain the Institutional Structure of Disaster Management in India.

(iii) Discuss the recent development in forecasting, warning and monitoring system

(26)

(v) What is the wind speed of Super Cyclone as classified by IMD?

(B) >250 km/hr

(D) 119-220 km/hr

(A) > 220 km/hr

(C) > 200 km/hr

during flood in India.

1/TR/STCSPT/GS-I/TPSC/21/C-140

(vi) Who is the Chairperson of NDMA?