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

TR/PRDO/COMP/15

Test Booklet Series

A

20.04.2017

TEST BOOKLET

GENERAL ABILITY TEST

TPSC
OLD QUS PAPER
NOT FOR SALE
TPSC

(Signature of the Candidate)

(Invigilator's Signature)

Time Allowed–2 hours (Two hours) **Maximum Marks–100**

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE SCREENING TEST, YOU SHOULD CHECK THAT THIS 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. This Test Booklet contains 100 items (questions). Each question, carrying 1 (one) mark only, has four responses (answers). You will select the response which you want to mark on the 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.
4. You have to mark all your responses by **Black Ball Point Pen only** on the separate Answer Sheet provided. See directions in the Answer Sheet.
5. All items carry equal marks.
6. Before you proceed to mark in the Answer Sheet the responses to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet.
7. After you have completed filling in responses on the Answer Sheet and the Screening Test is completed, you should hand over the Answer Sheet to the Invigilator only. You are permitted to take the Test Booklet with you.
8. Sheets for rough work are appended on the Test Booklet at the end.
9. **Penalty for wrong/multiple answers :**
   (i) For each question for which a wrong answer/multiple answer has been given by the candidate, a **½ (half)** mark will be deducted as penalty.
   (ii) 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.

TPSC OLD QUS PAPER NOT FOR SALE TPSC 20.04.2017

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 capital of India is

(A) Delhi ● New Delhi

(C) Indraprastha (D) None of these

PART- I

1. The name of the first high school in Tripura is —

(A) Maharani Tulshibati Girl's School

(B) Umakanta Academy

(C) Bodhjung High School

(D) Netaji High School

2. The main festival of Chakma tribe is —

(A) Bihu

(B) Biju

(C) Ker

(D) Rasa

3. The book written by Kailash Chandra Singh is —

(A) Gazinama

(B) Abarjanar Jhuri

(C) Krishnamala

(D) Rajmala

4. The king of Tripura, as mentioned in 'Mukut', a drama written by Rabindra Nath Tagore, is

(A) Maharaja Amar Manikya

(B) Maharaja Krishna Manikya

(C) Maharaja Gobinda Manikya

(D) Maharaja Dhanya Manikya

5. The city famous for Tower of victory and Mira Bai's temple —

(A) Chittorgarh

(B) Konarak

(C) Ajmer

(D) Joypur

6. Hyderabad, the capital of Andhra Pradesh stands on the bank of —

(A) Tapti river

(B) Musi river

(C) Godavari river

(D) Chambal river

7. Manas Sanctuary is situated in

(A) Kerala

(B) Gujarat

(C) Bihar

(D) Assam

8. Who is the author of the book 'The God of Small Things' ?

(A) Salman Rushdie

(B) Sorojini Naidu

(C) Arundhati Roy

(D) Shashi Tharoor

9. The name of parliament of Bangladesh is —

(A) Jatiya Sangsad

(B) Jatiya Sabha

(C) Jatiya Ain Sabha

(D) Jatiya Parisad

10. The land of Thunderbolt is —

(A) Bhutan

(B) Korea

(C) Japan

(D) Cuba

11. A Sphygmomanometer measures —

(A) Transpiration pull

(B) Pulse rate

(C) Blood pressure

(D) Heart beat

12. Which one of the following is not a component of a electric circuit ?

(A) Cell

(B) Bulb

(C) Switch

(D) Current

20.04.2017

13. Arrange the following components of air in descending order of their amount in air by volume :

1. Nitrogen 2. Carbon dioxide
3. Argon 4. Oxygen

(A) 4, 1, 2, 3

(B) 1, 3, 2, 4

(C) 1, 4, 3, 2

(D) 3, 1, 2, 4

14. World Environment day is observed on

(A) December, 1

(B) June, 5

(C) October, 16

(D) July, 26

15. A, B and C working together can finish a piece of work in 8 hours. A alone can do it in 20 hours and B alone can do it in 24 hours. In how many hours will C alone can do the same work ?

(A) 40 hours

(B) 35 hours

(C) 30 hours

(D) 25 hours

16. Two trains of equal lengths take 10 seconds and 15 seconds respectively to cross a telegraph post. If the length of each train be 120m, in what time will they cross each other travelling in opposite direction ?

(A) 12 seconds

(B) 14 seconds

(C) 15 seconds

(D) 18 seconds

17. Find the simple interest on Rs. 8100 for 4 months at rate of 6.5% per annum.

(A) 175.25

(B) 175.50

(C) 180

(D) 200

TPSC
OLD QUS PAPER
NOT FOR SALE
TPSC

18. Total number of diagonals of a pentagon is

(A) 5

(B) 4

(C) 3

(D) 6

20.04.2017

19. The Bengali novel 'Gora' was written by —

(A) Bankim Chandra Chattopadhyay

(B) Sarat Chandra Chattopadhyay

(C) Banabhatta

(D) Rabindranath Tagore

20. Which of the following non-members of Parliament has the right to address it ?

(A) Solicitor General of India

(B) Attorney General of India

(C) Chief Justice of India

(D) Chief Election Commissioner

21. In the Union Budget, 2015 service tax rate increases from 12% to

(A) 14%

(B) 20%

(C) 16%

(D) 17%

22. The Constitution of India provides for reservation of seats for the Scheduled Castes and Scheduled Tribes in every Panchayat under Article —

(A) 248

(B) 342

(C) 243 D

(D) 243 T

23. Via video conferencing, Prime Minister Narendra Modi inaugurated 2nd Border haat of Tripura at

(A) Amarpur

(B) Kamalasagar

(C) Mohanpur

(D) Dharmanagar

24. Who was the first lady Governor of Tripura ?

(A) Sucheta Kripalani

(B) Sarojini Naidu

(C) Nandini Sathpathy

(D) Dr. Kamala Beniwal

25. On May 27, 2015 Tripura has decided to discontinue with AFSPA. What is full form of AFSPA ?

(A) Armed Forces Special Power Act

(B) Assam Forces Special Power Act

(C) Additional Forces Special Power Act

(D) All India Forces Special Power Act

26. Rajya Sabha member from Tripura for the term 2010-2016 is —

(A) Sri Manindra Reang

(B) Smt. Jharna Das Baidya

(C) Sri Khagendra Jamatia

(D) Smt. Purnima Das

27. On June 5, 2015, Nestle's Maggi was banned in Tripura following an order by ——

(A) Federation of Safety and Standards Authority of India

(B) Food Safety and Standards Authority of India

(C) Food Securities and Standards Authority of India

(D) Food Sensitive and Standards Authority of India

28. India's largest Buddhist monastery is situated in

(A) Sikkim

(B) Bihar

(C) Mizoram

(D) Arunachal Pradesh

29. Tripura by-election, 2015 was held for Assembly Constituency / constituencies

(A) Pratapgarh and Surma

(B) Takarjala and Rajnagar

(C) Simna and Chandipur

(D) Surma only

30. Who is the winner of the Indian Premier League in 2015 ?

(A) Kolkata Knight Riders

(B) Mumbai Indians

(C) Chennai Super Kings

(D) Delhi Daredevils

31. Which year was declared as National year of Mathematics in our country ?

(A) 2005

(B) 2008

(C) 2011

(D) 2012

TPSC
OLD QUS PAPER
NOT FOR SALE
TPSC

32. At what level do Panchayat Samities exist in our country ?

(A) Village

(B) Sub-division

(C) Block

(D) District

33. Name the north-eastern state having the longest international border.

(A) Meghalaya

(B) Arunachal Pradesh

(C) Manipur

(D) Mizoram

20.04.2017

34. Mount Saramati Peak is situated in

(A) Nagaland

(B) Mizoram

(C) Manipur

(D) Arunachal Pradesh

35. Majuli — the biggest river island in the world is on the river —

(A) Brahmaputra

(B) Ganga

(C) Godavari

(D) Narmada

36. The G-7 Summit was held in 2015 in

(A) India

(B) Germany

(C) USA

(D) Canada

37. March 22, 2015 was celebrated throughout the world as world water day. This year's theme was —

(A) Water is life

(B) Water and energy

(C) Save water, save life

(D) Water and sustainable development

38. Who among the following was honoured as 2014 World Food Prize Laureate ?

(A) M S Swaminathan

(B) Sanjaya Rajaram

(C) Hari Shankar Gupta

(D) C. N. R. Rao

39. India's newly built and tested missile 'Astra' is meant for

(A) Surface to air strike

(B) Ship to ship strike

(C) Air to air strike

(D) Surface to surface strike

40. In the group of countries known as BRICS, S stands for

(A) South Africa

(B) South Korea

(C) Singapore

(D) Spain

20.04.2017

PART- II

41. The hexadecimal representation of the binary number 1011010 is —

(A) 5F

(B) 5B

(C) 5A

(D) 5C

42. The number of bits used to store a BCD digit is :

(A) 8

(B) 4

(C) 1

(D) 2

43. The decimal number 362 in base 8 is

(A) 255

(B) 363

(C) 472

(D) 552

44. URL is an acronym for

(A) Uniform Resource Locator

(B) Uniform Resource Link

(C) Universal Reference Locator

(D) Unlimited Real-time Language

45. HTML is an acronym for

(A) Hyperlink Markup Language

(B) Hypertext Markup Language

(C) Hypertext Markup Link

(D) Hypertext Modern Language

46. Which of the following data structure is linear data structure ?

(A) Trees

(B) Graphs

(C) Arrays

(D) None of the above

47. A linear list in which each node has pointers to point to the predecessor and successors nodes is called as

(A) Singly Linked List

(B) Circular Linked List

(C) Doubly Linked List

(D) Multi Linked List

48. Which of the following is an application of stack ?

(A) Finding factorial

(B) Tower of Hanoi

(C) Infix to postfix conversion

(D) All of the above

20.04.2017
TPSC
OLD QUS PAPER
NOT FOR SALE
TPSC

49. The worst case time complexity of quick sort is

(A) O(n)

(B) $O(n^2)$

(C) O(n log n)

(D) O(log n)

50. The part of machine level instruction, which tells the central processor what has to be done, is

(A) Operation code

(B) Address

(C) Flip-Flop

(D) None of the above

51. A graph is a set of

(A) integers

(B) vertices

(C) vertices and a set of edges

(D) edges

52. Inorder traversal on a binary search tree with integer values in nodes produces

(A) A list of elements in random order

(B) A list of elements in decreasing order

(C) A list of elements in increasing order

(D) None of the above

53. Software is a _____ element. (Fill up the blank from the followings)

(A) Physical

(B) Chemical

(C) Logical

(D) None of the above

54. The IP address in IPv4 consists of

(A) 16 bits

(B) 24 bits

(C) 32 bits

(D) 128 bits

55. The Internet is a

(A) Network of networks

(B) LAN

(C) MAN

(D) None of the above

56. Which one of the following is not a browser ?

(A) Mozilla Firefox

(B) Google Chrome

(C) Internet Explorer

(D) Windows 8

20.04.2017

57. TCP/IP stands for

(A) Transmission Control Protocol/ Internet Protocol

(B) Transmission Control Procedures/ Internet Protocol

(C) Translation Computing Procedures/ International Protocols

(D) Transaction Computing Printing / Internet Processing

58. Which of the following is a collection of programs written to service other programs ?

(A) Application software

(B) System software

(C) Embedded software

(D) None of the above

59. In the relational modes, cardinality is termed as :

(A) Number of tuples

(B) Number of attributes

(C) Number of tables

(D) Number of constraints

60. Relational calculus is a

(A) Procedural language

(B) Non-Procedural language

(C) Data definition language

(D) High level language

61. Which of the following refers to the associative memory ?

(A) The address of the data generated by the CPU

(B) The address of the data supplied by the users

(C) There is no need for an address i.e. the data is used as an address

(D) The data are accessed sequentially

62. Cartesian product in relational algebra is

(A) A Unary operator

(B) A Binary operator

(C) A Ternary operator

(D) Not defined

20.04.2017

63. To avoid the race condition, the number of processes that may be simultaneously inside their critical section is

(A) 8

(B) 1

(C) 16

(D) 0

64. The multimedia interface to the resources available on the Net is called the

(A) World Wide Web

(B) Internet

(C) GUI interface

(D) Server

65. In an E-R diagram attributes are represented by

(A) Rectangle

(B) Square

(C) Ellipse

(D) Triangle

66. A system program that combines the separately compiled modules of a program into a form suitable for execution is

(A) Assembler

(B) Linking loader

(C) Cross compiler

(D) Load and go

67. In case of entity integrity, the primary key may be

(A) Not Null

(B) Null

(C) Both Null and not Null

(D) Any value

68. A logical schema

(A) is the entire database

(B) is a standard way of organizing information into accessible parts

(C) describes how data is actually stored on disk

(D) Both (A) and (C)

20.04.2017

69. A process is

(A) Program in high level language kept on disk

(B) Contents of main memory

(C) A program in execution

(D) A job in secondary memory

70. A report generator is used to

(A) Update files

(B) Print files on paper

(C) Data entry

(D) Delete files

71. The DBMS language component which can be embedded in a program is

(A) The data definition language (DDL)

(B) The data manipulation language (DML)

(C) The database administrator (DBA)

(D) A query language

72. Count function in SQL returns the number of

(A) Values

(B) Distinct values

(C) Groups

(D) Columns

73. The Memory Buffer Register (MBR)

(A) is a hardware memory device which denotes the location of the current instruction being executed

(B) is a group of electrical circuits (hardware), that performs the intent of instructions fetched from memory

(C) contains the address of the memory location that is to be read from or stored into

(D) contains a copy of the designated memory location specified by the MAR after a "read" or the new contents of the memory prior to a "write"

74. Which one of the following statements is false ?

(A) The data dictionary is normally maintained by the database administrator.

(B) Data elements in the database can be modified by changing the data dictionary.

(C) The data dictionary contains the name and description of each data element.

(D) The data dictionary is a tool used exclusively by the database administrator.

20.04.2017

75. Data independence means

(A) Data is defined separately and not included in programs.

(B) Programs are not dependent on the physical attributes of data.

(C) Programs are not dependent on the logical attributes of data.

(D) Both (B) and (C)

76. The LRU algorithm means

(A) Pages out pages that have been used recently

(B) Pages out pages that have not been used recently

(C) Pages out pages that have been least used recently

(D) Pages out the first page in a given area.

77. Relational Algebra is

(A) Data Definition Language

(B) Meta Language

(C) Procedural query Language

(D) None of the above

78. Thrashing

(A) Is a natural consequence of virtual memory systems.

(B) Can always be avoided by swapping.

(C) Always occurs on large computers.

(D) Can be used by poor paging algorithms.

79. Interprocess communication

(A) is required for all processes

(B) is usually done via disk drives

(C) is never necessary

(D) allows processes to synchronize activity

80. The file organization that provides very fast access to any arbitrary record of a file is

(A) Ordered file

(B) Unordered file

(C) Hashed file

(D) B-tree

20.04.2017

81. In a relation

(A) Ordering of rows is immaterial

(B) No two rows are identical

(C) (A) and (B) both are true

(D) None of these

82. The conceptual model is

(A) Dependent on hardware

(B) Dependent on software

(C) Dependent on both hardware and software

(D) Independent on both hardware and software

83. Which of the following operation is used if we are interested in only certain columns of a table ?

(A) PROJECTION

(B) SELECTION

(C) UNION

(D) JOIN

84. Which of the following addressing modes, facilitates access to an operand whose location is defined relative to the beginning of the data structure in which it appears ?

(A) Ascending

(B) Sorting

(C) Index

(D) Indirect

85. Which of the following database object does not physically exist ?

(A) Base table

(B) Index

(C) View

(D) None of the above

86. A data dictionary is a special file that contains

(A) The name of all fields in all files

(B) The width of all fields in all files

(C) The data type of all fields in all files

(D) All of the above

87. The physical location of a record, determined by a mathematical formula that transforms a file key into a record location, is :

(A) B-Tree File

(B) Hashed File

(C) Indexed File

(D) Sequential File

88. The principle of locality of reference justifiles the use of

(A) Reenterable

(B) Non-reusable

(C) Virtual memory

(D) Cache memory

89. A B-tree of order m has maximum of ———— children. (Fill up the blank from the followings)

(A) m

(B) m+1

(C) m–1

(D) m/2

90. Resolution of externally defined symbols is performed by

(A) Linker

(B) Loader

(C) Compiler

(D) Assembler

91. The Memory Address Register

(A) Is a hardware memory device which denotes the location of the current instruction being executed.

(B) Is a group of electrical circuits (hardware) that performs the intent of instructions fetched from memory.

(C) Contains the address of the memory location that is to be read from or stored into.

(D) Contains a copy of the designated memory location specified by the MAR after a "read" or the new contents of the memory prior to a "write".

20.04.2017

92. If the property of locality of reference is well pronounced in a program, then

(A) The number of page faults will be more.

(B) The number of page faults will be less.

(C) The number of page faults will remain same.

(D) None of the above

93. Which of the following is not true for binary search algorithm over n elements ?

(A) The list must be sorted.

(B) The data structure can be a linked list.

(C) The elements should be in an array.

(D) The search time is of the order of log n.

94. The complexity of Bubble sort algorithm is

(A) O(n)

(B) O(log n)

(C) $O(n^2)$

(D) O(n log n)

95. In a statement on time complexity of an algorithm, NP stands for

(A) Nonexponential Polynomial time

(B) Nondeterministic Polynomial time

(C) Nonparametric Polynomial time

(D) Noncomputable Polynomial time

96. In a client/server network, the user's computer is considered as

(A) Server

(B) Client

(C) Web site

(D) Library

97. In the e-mail address "justincase@usource.org", what is the domain name ?

(A) The whole address is called the domain name

(B) .org

(C) usource.org

(D) justincase

20.04.2017

98. Hyperlinks in a Web document typically appear as

(A) Bolded and underlined

(B) Italicized and underlined

(C) Underlined and colored

(D) Bolded and italicized

99. Applets are typically written in a programming language called

(A) XML

(B) Basic

(C) Pascal

(D) Java

100. Unwanted and unsolicited e-mails are called

(A) Spam

(B) Junk

(C) Flame

(D) Lurk

20.04.2017