Junior Informatics Officer in the Directorate of Information Technology & Communications Department

Year of Advt: 2024   Date of Exam: 29-March-2025

Booklet Serial No. 12297

DO NOT BREAK THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

SERIES : I

QUESTION BOOKLET

Subjects : General English, General Knowledge & Aptitude and Computer Science

Full Marks : 300   Time Allowed : 2½ Hours

Read the following instructions carefully before you begin to answer the questions.

INSTRUCTIONS TO CANDIDATES

1. This Booklet contains **150 questions** to be answered in a separate OMR Answer Sheet using Black Ballpoint Pen in the following three Parts :

Part—A	:	General English	: **50 questions**
Part—B	:	General Knowledge & Aptitude	: **50 questions**
Part—C	:	Computer Science	: **50 questions**

2. **All** questions are compulsory.

3. You will be supplied the Answer Sheet separately by the Invigilator. You must complete the details of particulars asked for.

4. Answer must be shown by completely blackening the corresponding circle in the Answer Sheet against the relevant question number by Black Ballpoint Pen. OMR Answer Sheet without marking Series shall not be evaluated.

   Example :

   Suppose the following question is asked :

   The Capital of Meghalaya is

   (A) Guwahati

   (B) Kohima

   (C) Shillong

   (D) Delhi

   You will have four alternatives in the Answer Sheet for your response corresponding to each question of the Question Booklet as below :

   Ⓐ Ⓑ Ⓒ Ⓓ

   In the above illustration, if your chosen response is alternative (C), i.e., Shillong, then the same should be marked on the Answer Sheet by blackening the relevant circle with a Black Ballpoint Pen only as below :

   Ⓐ Ⓑ ● Ⓓ

   The example shown above is the only correct method of answering.

5. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any one question.

6. There will NOT be any negative marking for wrong answers.

7. The Answer Sheet must be handed over to the Invigilator before you leave the Examination Hall.

8. No Rough Work is to be done on the Answer Sheet. Space for Rough Work has been provided in the Question Booklet.

PART—A : GENERAL ENGLISH

(*Marks* : 100)

Each question carries **2** marks

***Direction* : Choose the correct sentences.**

1. (i) The team is thrilled to have you.

    (ii) My colleagues is happy to meet you.

    (iii) Everyone on the team loves working with you.

    (A) (i) and (ii)

    (B) (i) and (iii)

    (C) (ii) and (iii)

    (D) (i), (ii) and (iii)

2. (i) Your exceptional skills impress us.

    (ii) We value your unique perspective.

    (iii) Your skills are impressing and exceptional.

    (A) (i) and (ii)

    (B) (i) and (iii)

    (C) (ii) and (iii)

    (D) (i), (ii) and (iii)

3. (i) She has gone to the store.

    (ii) She went to the store.

    (iii) She will be going to the store.

    (A) (i) and (ii)

    (B) (i) and (iii)

    (C) (ii) and (iii)

    (D) (i), (ii) and (iii)

4. (i) You should have studied harder for the exam.

    (ii) You should study the hard exam.

    (iii) You should study for the exam.

    (A) (i) and (ii)

    (B) (i) and (iii)

    (C) (ii) and (iii)

    (D) (i), (ii) and (iii)

5. (i) We did went to the park yesterday.

    (ii) We visited the park yesterday.

    (iii) Yesterday, we visited the park.

    (A) (i) and (ii)

    (B) (i) and (iii)

    (C) (ii) and (iii)

    (D) (i), (ii) and (iii)

6. (i) Had I known, I would have called you.

    (ii) If I knew, I would have called you.

    (iii) If I would have known, I would have called you.

    (A) (i) and (ii)

    (B) (i) and (iii)

    (C) (ii) and (iii)

    (D) (i), (ii) and (iii)

7.
(i) Charles has been working for five hours.

(ii) Charles has worked for five hours.

(iii) Charles is working for five hours.

(A) (i) and (ii)

(B) (i) and (iii)

(C) (ii) and (iii)

(D) (i), (ii) and (iii)

8.
(i) Travelling around the world is his dream.

(ii) He want to travel around the world.

(iii) Traveling around the world is his dream.

(A) (i) and (ii)

(B) (i) and (iii)

(C) (ii) and (iii)

(D) (i), (ii) and (iii)

9.
(i) I will have finished my project by tomorrow.

(ii) I'll be done with my project by tomorrow.

(iii) I will finished my project tomorrow.

(A) (i) and (ii)

(B) (i) and (iii)

(C) (ii) and (iii)

(D) (i), (ii) and (iii)

10.
(i) The morning is favourite by her.

(ii) Her favourite time is the morning.

(iii) Her favourite part of the day is morning.

(A) (i) and (ii)

(B) (i) and (iii)

(C) (ii) and (iii)

(D) (i), (ii) and (iii)

Direction : **Read the following passage and answer the questions given below following the instructions.**

The rapid increase of social media has led to a significant surge in online activism, enabling individuals to rapidly mobilize and disseminate information. Conversely, this increased connectivity has also facilitated the spread of misinformation, often perpetuated by anonymous sources. Furthermore, the short-lived nature of online content can make it challenging to discern fact from fiction. Despite these challenges, online platforms have empowered marginalized voices, providing a vital outlet for expression and advocacy. However, the discordance of opinions can be overwhelming, making it essential to critically evaluate information.

Choose the appropriate antonyms of the following :

11. Surge

(A) Growth

(B) Decrease

(C) Spread

(D) Increase

12. Empowered

(A) Weakened

(B) Strengthened

(C) Enabled

(D) Authorized

13. Discern

(A) Misunderstand

(B) Distinguish

(C) Conceive

(D) Recognize

14. Marginalized

(A) Dominant

(B) Oppressed

(C) Excluded

(D) Mainstream

15. Critical

(A) Unimportant

(B) Careless

(C) Casual

(D) Complimentary

Choose the appropriate meaning of the words given below in the specific context of the passage :

16. Outlet

(A) Store

(B) Platform

(C) Product

(D) Support

17. Disseminate

(A) Conceal

(B) Withhold

(C) Distribute

(D) Suppress

18. Vital

(A) Essential

(B) Unnecessary

(C) Optional

(D) Trivial

19. Discordance

(A) Harmony

(B) Silence

(C) Melody

(D) Conflict

20. Advocacy

(A) Opposition

(B) Support

(C) Neutrality

(D) Indifference

Direction : Choose the correct option to fill in the gaps.

21. The new policy _____ effective from January 1st.

    (A) will be

    (B) is

    (C) was

    (D) has been

22. I'm looking for _____ job in marketing.

    (A) a

    (B) an

    (C) the

    (D) No article

23. I will meet you _____ the conference room.

    (A) on

    (B) in

    (C) at

    (D) by

24. By next year, I _____ my degree.

    (A) will have graduated

    (B) graduate

    (C) have graduated

    (D) am graduating

25. The project will be completed _____ next month.

    (A) within

    (B) by

    (C) during

    (D) before

26. The city is located _____ the coast.

    (A) in

    (B) on

    (C) of

    (D) with

27. The company _____ several new employees last month.

    (A) was hiring

    (B) has hired

    (C) is hiring

    (D) hired

28. The teacher asked the students _____ their homework.

    (A) to do

    (B) do

    (C) to

    (D) have done

29. The package will be delivered _____ tomorrow morning.

    (A) during

    (B) within

    (C) by

    (D) before

30. The new employee is _____ training.

(A) within

(B) in

(C) on

(D) under

31. The teacher spoke _____ a soft voice.

(A) in

(B) with

(C) using

(D) through

32. If I _____ more time, I would have finished the project.

(A) have

(B) had

(C) would have

(D) will have

33. She _____ her keys somewhere.

(A) loss

(B) loses

(C) has lost

(D) is losing

34. He _____ to New York last week.

(A) went

(B) go

(C) has gone

(D) is going

35. _____ University of California is prestigious.

(A) A

(B) An

(C) The

(D) No article

***Direction* : Choose the correct meaning for the words and phrases given below.**

36. A person who travels to a place for pleasure

(A) Tourist

(B) Explorer

(C) Adventurer

(D) Wanderer

37. Heterogeneous

(A) Uniform

(B) Identical

(C) Similar

(D) Diverse

38. Turn down

(A) Accept

(B) Reject

(C) Postpone

(D) Negotiate

39. A feeling of deep regret or guilt

(A) Remorse

(B) Anger

(C) Fear

(D) Shame

40. Make up

(A) Compensate

(B) Fabricate

(C) Reconcile

(D) Separate

41. A person who is an expert in languages

(A) Linguist

(B) Translator

(C) Interpreter

(D) Polyglot

42. Endeavour

(A) Idle

(B) Effort

(C) Ignorance

(D) Process

43. Mitigate

(A) Increase

(B) Maintain

(C) Eliminate

(D) Decrease

44. Ambiguous

(A) Clear

(B) Complex

(C) Uncertain

(D) Simple

45. Campaign

(A) Withdrawal

(B) Movement

(C) Boycott

(D) Opposition

46. Gigantic

(A) Huge

(B) Miniature

(C) Compact

(D) Trivial

47. Underway

(A) Delayed

(B) Finished

(C) Started

(D) Canceled

48. A person who creates original ideas or products

(A) Innovator

(B) Inventor

(C) Entrepreneur

(D) Creator

49. A process of breaking down complex information

(A) Examine

(B) Synthesis

(C) Evaluation

(D) Analysis

50. Come across

(A) To meet

(B) To avoid

(C) To lose

(D) To find

PART—B : GENERAL KNOWLEDGE AND APTITUDE

(*Marks* : 100)

Each question carries **2** marks

51. Which of the following substances is the hardest?

(A) Iron

(B) Steel

(C) Diamond

(D) Graphite

52. How many National Parks are there in Meghalaya?

(A) 2

(B) 3

(C) 4

(D) None of the above

53. An 'Udometer' is an instrument used for measuring

(A) wind speed

(B) rainfall

(C) porosity of soil

(D) atmospheric pressure

54. India's information technology capital is

(A) Pune

(B) Chennai

(C) Hyderabad

(D) Bengaluru

55. The southernmost point of India is

(A) Cape Comorin

(B) Indira Point

(C) Point Calimere

(D) Port Blair

56. Which one of the following languages is *not* specified in the Eighth Schedule of the Indian Constitution?

(A) Sanskrit

(B) Nepali

(C) English

(D) Santhali

57. Entomology is the study of

(A) insects

(B) caves

(C) birds

(D) reptiles

58. How many medals did India win at the 2024 Paris Olympics?

(A) 5

(B) 6

(C) 9

(D) 13

59. Which one of the following States is **not** included in the Sixth Schedule of the Indian Constitution?

(A) Manipur

(B) Meghalaya

(C) Tripura

(D) Mizoram

60. The Jallianwala Bagh Massacre took place during the Viceroyalty of

(A) Lord Chelmsford

(B) Lord Canning

(C) Lord Hastings

(D) Lord Ripon

61. The number of pixels displayed on a screen is known as the screen

(A) colour depth

(B) resolution

(C) zooming

(D) viewing size

62. 'Zero' was invented by the

(A) Greeks

(B) Egyptians

(C) Indians

(D) Chinese

63. The Proclamation of Emergency under Article 352 was made by the President for the first time in

(A) 1962

(B) 1964

(C) 1965

(D) 1971

64. Ranthambore National Park is located in which State?

(A) Rajasthan

(B) Gujarat

(C) Assam

(D) West Bengal

65. Who is the author of *Das Kapital*?

(A) Max Weber

(B) Karl Marx

(C) Adam Smith

(D) Alfred Marshall

66. Which is the largest freshwater lake in the world?

(A) Lake Superior

(B) Lake Victoria

(C) Lake Baikal

(D) Lake Tanganyika

67. Which is the chess piece that **cannot** be moved backward?

(A) Knight

(B) King

(C) Pawn

(D) Bishop

68. What is the permanent memory built into the computer called?

    (A) RAM

    (B) ROM

    (C) CPU

    (D) CD-ROM

69. Who was the UEFA EURO 2024 Champion?

    (A) Spain

    (B) Germany

    (C) England

    (D) Portugal

70. National Integration Day is celebrated on November 19th every year to commemorate the birth anniversary of

    (A) B. R. Ambedkar

    (B) Lal Bahadur Shastri

    (C) Indira Gandhi

    (D) Jawaharlal Nehru

71. Food is cooked faster in a pressure cooker because

    (A) steam is hotter than the boiling water

    (B) heat cannot escape from the cooker

    (C) in the cooker, water starts boiling at a lower temperature

    (D) of high pressure, the boiling point of water is raised

72. The famous 'Ziro Valley', which is included in the tentative list of UNESCO World Heritage Site, is located in

    (A) Meghalaya

    (B) Arunachal Pradesh

    (C) Mizoram

    (D) Nagaland

73. Who is the first-ever native female Chief Secretary of Meghalaya?

    (A) Ampareen Lyngdoh

    (B) Isawanda Laloo

    (C) Rebecca Vanessa Suchiang

    (D) Agatha Sangma

74. The Pradhan Mantri Jan Arogya Yojana (PM-JAY) is a Government scheme which aims at providing

    (A) National Public Health Insurance

    (B) LPG connections

    (C) functional household tap connection

    (D) last mile connectivity and electricity connection

75. Which of the following is a secondary air pollutant?

    (A) Sulphur dioxide

    (B) Ozone

    (C) Carbon monoxide

    (D) Nitric oxide

76. A man invested ₹ 4,455 in ₹ 10 shares quoted at ₹ 8·25. If the rate of dividend be 12%, his annual income is

(A) ₹ 534·60

(B) ₹ 648

(C) ₹ 655·50

(D) ₹ 682·50

77. Complete the following series :

9, 11, 15, 23, 39, ?

(A) 42

(B) 56

(C) 64

(D) 71

78. Which of the following is the smallest fraction?

(A) $\dfrac{15}{16}$

(B) $\dfrac{16}{6}$

(C) $\dfrac{7}{8}$

(D) $\dfrac{11}{12}$

79. The speed of a man is 10 km/hr in still water. If the rate of current is 3 km/hr, then the effective speed of the man upstream is

(A) 6 km/hr

(B) 7 km/hr

(C) 9 km/hr

(D) 10 km/hr

80. Which of the following is *not* a Leap Year?

(A) 1300

(B) 1984

(C) 2000

(D) 800

81. The ratio of the present ages of Rahul and Rohit is 4 : 5. Five years ago, the ratio of their ages was 7 : 9. What is their present age (in years)?

(A) 40, 50

(B) 18, 25

(C) 40, 60

(D) 20, 25

82. Which among the following is the smallest prime number?

(A) 0

(B) 1

(C) 2

(D) 3

83. If A is the brother of B, C is the sister of B and B is the father of D, how is D related to A?

(A) Niece

(B) Nephew/Niece

(C) Nephew

(D) Cousin

84. (A) TGMAINSRA
    (B) BILEMO
    (C) HTWSPAPA
    (D) BKFOCEOA

85. (A) ENIMSAJ
    (B) DLOGIRAM
    (C) TORRAC
    (D) REWOLFNUS

86. (A) TOGA
    (B) GEPONI
    (C) RARPOT
    (D) LEEGA

87. The average of 5 terms is 50. If the first 4 terms are 45, 42, 39 and 84, what will be the last term?
    (A) 56
    (B) 20
    (C) 40
    (D) 50

88. BAZ, DBY, FCX, ?
    (A) FXW
    (B) EFX
    (C) FEY
    (D) HDW

89. ZYX, SRQ, LKJ, ?
    (A) EDC
    (B) MED
    (C) JGF
    (D) STR

90. BFG, HLM, NRS, ?
    (A) RVW
    (B) TWX
    (C) TXY
    (D) TYZ

91. 7, 10, 8, 11, 9, 12, ?
    (A) 7
    (B) 10
    (C) 12
    (D) 13

92. 53, 53, 40, 40, 27, 27, ?
    (A) 14
    (B) 12
    (C) 27
    (D) 53

93. 2, 6, 18, 54, ?
    (A) 108
    (B) 148
    (C) 162
    (D) 216

94. 'Marathon' is to 'Race' as 'Hibernation' is to

(A) Winter

(B) Bear

(C) Dream

(D) Sleep

95. 'Yard' is to 'Inch' as 'Quart' is to

(A) Gallon

(B) Ounce

(C) Milk

(D) Liquid

96. Peace : Chaos :: Creation : ?

(A) Build

(B) Construction

(C) Destruction

(D) Manufacture

97. Microphone : Loud :: Microscope : ?

(A) Elongate

(B) Investigate

(C) Magnify

(D) Examine

98. 'Jade' is related to 'Green' in the same way as 'Garnet' is related to

(A) Red

(B) Blue

(C) Orange

(D) Yellow

99. Arrange the words given below in a meaningful sequence :

1. Heptagon 2. Square
3. Hexagon   4. Decagon
5. Triangle

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

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

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

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

100. Arrange the words given below in a meaningful sequence :

1. Presentation

2. Recommendation

3. Arrival

4. Discussion

5. Introduction

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

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

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

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

PART—C : COMPUTER SCIENCE

(*Marks* : 100)

Each question carries **2** marks

101. Which software development life cycle model is best suited when a project is short and the requirements are constant?

(A) Spiral

(B) Big Bang

(C) Waterfall

(D) Prototype

102. CSMA is most commonly used in which topology?

(A) Bus

(B) Ring

(C) Star

(D) Mesh

103. Which is **not** the Disk Scheduling Algorithm?

(A) FCFS

(B) SSTF

(C) SCAN

(D) SFJ

104. What will be the output of the following code?

```
public class_C{
int $,n;
public static void main (String args[]){
    System.out.println(n);}}
```

(A) Compile error at line 2

(B) Compile error at line 4

(C) Compile error at line 3

(D) Compile error at line 1

105. What is the value of postfix expression 6 3 2 4 + − * ?

(A) 74

(B) −18

(C) 22

(D) 40

106. The binary equivalent of 891 is

(A) 1010110110

(B) 1101111011

(C) 1100110101

(D) 1001110001

107. Autoboxing is the conversion from

(A) wrapper class to primitive datatype manually

(B) primitive datatype to wrapper class automatically

(C) primitive datatype to wrapper class manually

(D) wrapper class to primitive datatype automatically

108. Which is the correct type of projects in COCOMO?

(A) Organic, semidetached, embedded

(B) Organic, detached, semidetached

(C) Organic, inorganic, embedded

(D) Detached, semidetached, detailed

109. Which guided media has a frequency range from 0 to 3·5 kHz?

(A) Coaxial cable

(B) Shielded twisted pair

(C) Unshielded twisted pair

(D) Fibre optics

110. Which one of the following commands is used for removing (or deleting) a relation from the SQL database?

(A) Delete

(B) Drop

(C) Remove

(D) All of the above

111. Which one of the following statements possibly contains the error?

(A) Select * from emp where empid = 1423;

(B) Select empid from emp where empid = 1326;

(C) Select empid from emp;

(D) Select empid where empid = 1321 and lastname = 'Jones';

112. In CISC architecture, most of the complex instructions are stored in

(A) CMOS

(B) register

(C) transistors

(D) diodes

113. Which data structure is used to handle recursion in C?

(A) Stack

(B) Queue

(C) Tree

(D) Graph

114. If p is an integer pointer with a value of 2000, then what will be the value of $p+3$?

(A) 2003

(B) 2012

(C) 2014

(D) 2016

115. Given the grammar below

$$S \rightarrow Aa \,|\, Bb$$
$$A \rightarrow c \,|\, \varepsilon$$
$$B \rightarrow d \,|\, \varepsilon$$

the FIRST() set of S is

(A) {A,B}

(B) {c,d}

(C) {a,b,c,d}

(D) {b,c}

116. The sum of two octal numbers 71 and 36 is

(A) 123

(B) 127

(C) 213

(D) 345

117. Which type of operating system **does not** provide any user interaction with the computer system?

(A) Real-time operating system

(B) Multiprocessing operating system

(C) Multiprogramming operating system

(D) Multitasking operating system

118. Identify the error type in the following code :

```
public class_M{
    public static void main(int a, int b, int c){
        if(a+b>c)&&(b+c>a)&&(c+a>b){
            System.out.println("Triangle is
                                possible");
        If(a==b)&&(b==c)&&(c==a){
            System.out.println("Equilateral
                                triangle");}
        else if(a==b)||(b==c)||(c==a){
            System.out.println("Isosceles
                                triangle");}
        else
            System.out.println("Triangle not
                                possible");}}
```

(A) Syntax error

(B) Logical error

(C) Runtime error

(D) No error

119. Which SDLC model is a risk-driven process model?

(A) Agile model

(B) Spiral model

(C) V-model

(D) Iterative model

120. Which of the following is required in semantic analysis?

(A) Symbol table

(B) Parser

(C) Type checking

(D) Token

121. The small and very fast RAM is called as

(A) cache

(B) register

(C) SRAM

(D) ROM

122. What value is considered as a Don't Care condition?

(A) 0

(B) 1

(C) Both 0 and 1

(D) Either 0 or 1

123. What is the postfix expression for $2+3*5/7+4$?

(A) $23+5*7/4+$

(B) $235*7/+4+$

(C) $235*7/4++$

(D) $23+57*/4+$

124. The collection of information stored in a database at a certain time is known as

(A) schema

(B) relation

(C) instance

(D) tuple

125. A large collection of data that is accumulated from several sources is

(A) database

(B) data warehouse

(C) data storage

(D) data mining

126. What happens if a piece of data is stored in two places in the database?

(A) Storage space is wasted and modifying the data in one spot will cause data inconsistency

(B) Data can be more easily accessed

(C) Modifying the data in one spot will cause data inconsistency

(D) Storage space is wasted

127. What will be the output from a D flip-flop if the clock is low and $D = 0$?

(A) 0

(B) 1

(C) No change

(D) Toggle between 0 and 1

128. What is an AVL tree?

(A) A tree which is unbalanced and is a height-balanced tree

(B) A tree which is balanced and is a height-balanced tree

(C) A tree with atmost 3 children

(D) A tree with 3 children

129. What will be the output of the following code snippet?

```
#include <stdio.h>
#define SQUARE (a) a*a
void calc() {
    int ans = 240/SQUARE (2);
    printf("%d", ans);
}
int main() {
    calc();
    return 0;
}
```

(A) 120

(B) 60

(C) 140

(D) 80

130. How is the third element in the array accessed based on pointer notation?

(A) *(a+3)

(B) *a+3

(C) *(*a+3)

(D) &(a+3)

131. What does the following declaration indicate?

int x : 4;

(A) x is initialized with the value 4

(B) x is an array with size 4

(C) x is a 4-bit integer

(D) None of the above

132. What is a dequeue?

(A) A queue implemented with both singly and doubly linked lists

(B) A queue with insert/delete defined for front side of the queue

(C) A queue with insert/delete defined for both front and rear ends of the queue

(D) A queue implemented with a doubly linked list

133. The binary equivalent of 78 is

(A) 1011100

(B) 1100011

(C) 1001110

(D) 1001010

134. The octal equivalent of the binary number 11001101 is

(A) 315

(B) 631

(C) 325

(D) 621

135. Which layer is responsible for handling high-level protocols?

(A) Transport layer

(B) Network layer

(C) Application layer

(D) Data link layer

136. Consider the following :

(a) Business modelling

(b) Process modelling

(c) Data modelling

(d) Application generation

(e) Testing and turnover

Which order of phases of RAD model is correct?

(A) (a), (b), (c), (d), (e)

(B) (a), (c), (b), (d), (e)

(C) (c), (b), (d), (a), (e)

(D) (b), (c), (a), (d), (e)

137. The method of string buffer to concatenate two strings is

(A) concat()

(B) append()

(C) Both (A) and (B)

(D) Neither (A) nor (B)

138. The standard applies to organizations that are involved only in the installation and testing of the products is

(A) ISO 9001

(B) ISO 9002

(C) ISO 9003

(D) ISO 9000

139. The total amount of time spent by the process from its arrival to its completion is called

(A) completion time

(B) turnaround time

(C) burst time

(D) complete time

140. What will be the value of x, if $x = 6$?

$$x+ = (x - - + - - x) * x * + + x;$$

(A) 200

(B) 207

(C) 208

(D) 206

141. Which of the following errors can a compiler diagnose?

(A) Logical errors only

(B) Both syntax and logical errors

(C) Syntax errors only

(D) All of the above

142. What is the relational calculus?

(A) It is a kind of procedural language

(B) It is a non-procedural language

(C) It is a high-level language

(D) It is data definition language

143. Which parser is most powerful among the following parsers?

(A) Operator precedence

(B) SLR

(C) Canonical LR

(D) LALR

144. Which of the following is popular for applications such as storage of log files in a database management system since it offers the best write performance?

(A) RAID level 0

(B) RAID level 1

(C) RAID level 2

(D) RAID level 3

145. $x * y = y * x$ is the

(A) inverse property

(B) commutative law

(C) associative law

(D) identity element

146. A Boolean expression can be transformed into

(A) matrix

(B) logical diagram

(C) logical graph

(D) All of the above

147. Which of the following is *not* the type of queue?

(A) Priority queue

(B) Circular queue

(C) Single-ended queue

(D) Ordinary queue

148. Which of the following is *not* a valid C variable name?

(A) int number;

(B) float rate;

(C) int variable_count;

(D) int $main;

149. Which data structure is based on the First In First Out (FIFO) principle?

(A) Tree

(B) Linked list

(C) Stack

(D) Queue

150. When an asynchronous sequential circuit changes two or more binary state variables, a condition occurs called

(A) race condition

(B) deadlock condition

(C) running condition

(D) shifting condition