THIS SHEET TO BE DETACHED/TORN OFF AND RETAINED BY INVIGILATOR ON COMPLETION OF EXAM / परीक्षा की पूर्ति पर इस W को अलग करके/ निरीक्षक द्वारा रखा जाए

Duration : (2 Hours / 120 Minutes)   Exam Code :   TSD002

**RRB JE CBT-1
Exam Dates – December 14, 2014
Shift 2**

No

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Candidate's Name / परीक्षार्थी का नाम   Candidate's Signature / परीक्षार्थी का हस्ताक्षर
*** As given in application form / आवेदन पत्र में दिये गये अनुसार ***

CANDIDATE SHOULD OPEN THE SEALS ONLY AFTER THEY ARE ASKED TO DO SO.
परीक्षार्थी निर्देश मिलने सील खोलें ।

The question paper is made up of the following sections as tabulated below:
निम्न तालिका में दर्शाये अनुसार, इस पत्र को निम्नलिखित भागों में विभाजित किया गया i:

Section/भाग	Language/भाषा	No. of Questions/प्रश्नों की संख्या	Pages/	
			From/	To/तक
Section-J	English	150	14	28
Section-II	Hindi/	150	29	45
Section- III	Urdu/	150	46	63
Section-IV	Punjabi/ਪੰਜਾਬੀ	150	64	80
Section-V	Gujarati/ગુજરાતી	150	81	97
Section-VI	Kannada/ಕನ್ನಡ	150	98	114
Section- VII	Marathi/मराठी	150	115	132
Section- VIII	Odia/ଓଡ଼ିଆ	150	133	151
Section-IX	Telugu/	150	152	169
Section-X	Konkani/कोंकणी	150	170	187
Section-XI	Tamil/தமிழ்	150	188	206

English Paragraph : "All the details given by me in the Application Form are true and complete to the best of my knowledge. I understand that I may be issued with Call letter for the exam on the basis of above information and mere issue of Call letter will not confer on me any right to be eligible for the post. I also understand that in case any of my statements are found to be untrue at any stage of recruitment or thereafter, I shall be disqualified forthwith for the post applied for and I shall be liable for any other penal action under the extant rules."

पैराग्राफ : पत्र में मेरे द्वारा दिये गये सभी विवरण मेरी अधिकतम जानकारी के अनुसार सत्य और पूर्ण i । हूँ कि मुझे परीक्षा के लिए उपर्युक्त सूचना के आधार पर बुलावा पत्र जारी किया जाएगा और केवल बुलावा पत्र जारी करना पद के लिए पात्र होने का मुझे कोई अधिकार t मैं यह भी समझता/समझती हूँ कि यदि मेरा विवरण भर्ती के किसी चरण पर या तत्पश्चात् असत्य पाया जाता तो मैं आवेदित पद लिए तत्काल निरर्हक हो जाऊंगा/जाऊंगी और मुझ पर लागू नियमों दंडात्मक कार्रवाई की

0   AM

Signature of the Invigilator / निरीक्षक हस्ताक्षर   TSD002414

INSTRUCTIONS

(Please read carefully and comply)

1. Kindly read the complete set of instructions carefully and also see the instructions on the back side of the OMR Answer Sheet and fill the details in the OMR Answer Sheet and Question Booklet.

2. One paragraph each in Hindi and English is given in page **1**. Copying of the paragraph in the space provided in the OMR Answer Sheet (in the language as filled in the application form either in Hindi or English) in your running hand is **compulsory**. DO NOT USE **BLOCK** LETTERS.

3. (a) Question Booklet Serial No. must clearly be written and marked in the bubbles in the space provided in the OMR Answer Sheet.

   (b) OMR Sheet No. should be written in the space provided in the Question Booklet.

4. After being instructed to open the Booklet, the candidates will open the seals. It is the responsibility of the candidate to check and ensure that the booklet contains **150** questions and start the paper from page no. **14**.

5. The question paper comprises **150** questions and are available in congruent versions of English, Hindi, Urdu, Punjabi, Gujarati, Kannada, Marathi, Odia, Telugu, Konkani and Tamil languages. **In case of any doubt or confusion, English version shall prevail.**

6. All questions are of Objective type. There is only one correct answer to each question carrying one mark. There will be negative marking for wrong answers. **For every wrong answer, 1/3 mark will be deducted.**

7. In the event of any mistake in any question/s, candidates will not be penalized. However no corrections will be made in question/s during the examination.

8. You must use **Blue or Black** ball-point pen only for answering. Altering of answers once entered is not permissible. Enter the answers in the Answer Sheet carefully.

9. Rough work, if any may be done in the Question Booklet only in the space provided at the end of the Booklet. No additional paper shall be provided.

10. Use of Log tables, Calculator, Slide rule, Mobile phone, Pager, Digital diary or any other electronic item/instrument, etc. is not allowed. Their use will result in disqualification.

11. No candidate should leave the examination hall before the final bell. The Answer Sheet as well as the Top Sheet of the Question Booklet should be handed over together to the invigilator before leaving the Examination Hall.

SECTION - I

ENGLISH

1. Find the missing term : ADVENTURE, DVENTURE, DVENTUR, ____ , VENTU
   (A) DVENT   (B) VENTURE   (C) VENTUR   (D) DVENTU

2. Find the missing letter : A, D, H, M, _?_ , Z
   (A) T   (B) G   (C) N   (D) S

3. Sakshi can do a piece of work in 20 days. Tanya is 25% more efficient than Sakshi. The number of days taken by Tanya to do the same piece of work is :
   (A) 15   (B) 16   (C) 18   (D) 25

4. Increase in atmospheric temperature due to carbon dioxide, is called :
   (A) Pasteur effect   (B) Greenhouse effect
   (C) Blackman effect   (D) Emerson effect

5. A popular technique for forecasting, is :
   (A) correlation analysis   (B) regression analysis
   (C) linear programming   (D) Monte Carlo

6. Which of the following countries became the first to have made a space craft enter the orbit of Mars in the first attempt itself ?
   (A) USA   (B) UK   (C) Germany   (D) India

7. What is the decimal equivalent of the hexadecimal number $(AB60)_{16}$?
   (A) 48732   (B) 48723   (C) 43872   (D) 47382

8. The Halley's Comet will most probably be visible again in the year :
   (A) 2066 A.D.   (B) 2064 A.D.   (C) 2062 A.D.   (D) 2060 A.D.

9. The first task in the system analysis is :
   (A) programming
   (B) orientation and fact finding
   (C) the study of the processing operation
   (D) None of these

10. A man rows to a place 48 km distant and comes back in 14 hours. He finds that he can row 4 km with the stream in the same time as 3 km against the stream. The rate of the stream is :
    (A) 1 kmph   (B) 1.5 kmph   (C) 2 kmph   (D) 2.5 kmph

11. A structure chart, is :
    (A) a document of what has to be accomplished
    (B) a hierarchical partitioning of the program
    (C) a statement of information processing requirements
    (D) All of these

12. Storage mapping is done by :
    (A) Operating System   (B) Compiler
    (C) Linker   (D) Loader

13. If a person walks at 14 km/hr instead of 10 km/hr, he would have walked 20 km more in the same time. The usual distance travelled by him is :
    (A) 50 km   (B) 56 km   (C) 70 km   (D) 80 km

14. If $3\sqrt{5} + \sqrt{125} = 17.88$, then what will be the value of $\sqrt{80} + 6\sqrt{5}$?
    (A) 13.41   (B) 20.46   (C) 21.66   (D) 22.35

15. The banana is the good source of which vitamin ?
    (A) A   (B) C   (C) D   (D) B

16. In what ratio must a grocer mix two varieties of tea worth ₹ 60 a kg and ₹ 65 a kg so that by selling the mixture at ₹ 68.20 a kg he may gain 10% ?
    (A) 3 : 2   (B) 3 : 4   (C) 3 : 5.   (D) 4 : 5

17. If $\left(\dfrac{a}{b}\right)^{(x-1)} = \left(\dfrac{b}{a}\right)^{(x-3)}$, then the value of 'x' is :

    (A) $\dfrac{1}{2}$ (B) 1   (C) 2   (D) $\dfrac{7}{2}$

18. The process of transferring files from the Internet to your computer is called :
    (A) Downloading   (B) Uploading   (C) FTP   (D) JPEG

19. Which of the following is **not** an editing view ?
    (A) Online Layout view   (B) Full Screen view
    (C) Format view   (D) Page Layout view

20. Which of the following commands in UNIX lists the names of one, several, or all files in one or more directories ?
    (A) ls   (B) rm   (C) lf   (D) la

21. Cape Canaveral, the site from which space shuttles, are launched, is located on the coast of :
    (A) North Carolina (B) South Carolina (C) Florida (D) Virginia

22. A natural region has the similarity of :
    (A) Climate and occupation
    (B) Soil and drainage
    (C) Climate and natural vegetation
    (D) Economic base and races

23. A turnkey package includes :
    (A) hardware (B) software (C) training (D) all of these

24. Which of the following is a DBMS software ?
    (A) Data-base manipulation language
    (B) Query language
    (C) Utilities
    (D) All of these

25. Find the next three numbers in the series : 3, 4, 9, 10, 15, ___ , ___, ___.
    (A) 16, 21, 22 (B) 16, 22, 23 (C) 16, 23, 24 (D) None of these

26. Biological Oxygen Demand (BOD) in a river water :
    (A) remains unchanged when algal bloom occurs
    (B) has no relationship with concentration of oxygen in water
    (C) gives a measure of Salmonella in the water
    (D) increases when sewage gets mixed with river water

27. If $(17)^{3.5} \times (17)^x = 17^8$, what is the value of 'x' ?
    (A) 2.29 (B) 2.75 (C) 4.25 (D) 4.5

28. Which UNIX command allows you to view your files, 24 lines at a time ?
    (A) more (B) pg (C) cat (D) lp

29. In C language, the && and || operators :
    (A) compare two numeric values
    (B) combine two numeric values
    (C) compare two Boolean values
    (D) combine two Boolean values

30. In JAVA, which unit of the class gets called when the object of the class is created ?
    (A) destructor (B) constructor (C) detractor (D) contractor

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31. Who was the first Indian women to swim across the English Channel ?
    (A) Nafisa Ali   (B) Arati Saha
    (C) Bula Choudhury   (D) J. Sikder

32. A required characteristic of an on-line real-time system, is :
    (A) more than one CPU   (B) offline batch processing
    (C) no delay in processing   (D) All of these

33. In a worksheet, you can select :
    (A) the entire worksheet   (B) rows
    (C) columns   (D) all of these

34. Find the missing number in the blank in the series :
    1, 4, 9 , 16, 25, ___, 49, 64.
    (A) 21   (B) 31   (C) 26   (D) 36

35. Normally which animal's skin gives us Morocco leather ?
    (A) Cow   (B) Camel   (C) Goat   (D) Pig

36. The field size for a city is determined by :
    (A) the shortest city name that will be entered
    (B) the longest city name in India
    (C) the longest city name that will be entered in the database
    (D) ten characters more than the longest city name that will be entered in the database

37. $\sqrt{\left(\dfrac{0.49}{0.25}\right)} + \sqrt{\left(\dfrac{0.81}{0.36}\right)} = ?$

    (A) $\dfrac{9}{10}$ (B) $2\dfrac{9}{10}$ (C) $7\dfrac{9}{10}$ (D) $9\dfrac{9}{10}$

38. What comes next : GH, JL, NQ, SW, YD, __?__
    (A) EJ   (B) FJ   (C) EL   (D) FL

39. Boolean Algebra is essentially based on :
    (A) symbols   (B) logic   (C) truth   (D) numbers

40. Which of the following is true about parallel transmission ?
    (A) It involves simultaneous transmission of eight bits
    (B) The speed is quoted in bits per second
    (C) It is slower than serial transmission
    (D) None of these

41. Structure programming codes include :
    (A) sequencing   (B) alteration   (C) iteration   (D) All of these

42. Which data structure is needed to convert infix notations to postfix notations ?
    (A) Branch   (B) Queue   (C) Tree   (D) Stack

43. An area legally reserved for wild life in its natural surroundings is a :
    (A) Social Forest   (B) Biosphere Reserve
    (C) National Park   (D) Sanctuary

44. Dividing a program into functions :
    (A) makes the program easier to conceptualize
    (B) may reduce the size of the program
    (C) both of these
    (D) none of these

45. Now-a-days computers all over the world can talk to each other. What is one of the special accessories essential for this purpose ?
    (A) Keyboard   (B) Modem   (C) Scanner   (D) Fax

46. All the time a computer is switched on, its operating system has to stay in :
    (A) main storage   (B) primary storage   (C) floppy disk   (D) disk drive

47. A language's grammar is determined by its :
    (A) Consistency   (B) Familiarity   (C) Syntax   (D) None of these

48. Find the ratio in which rice at ₹ 7.20 a kg be mixed with rice at ₹ 5.70 a kg to produce a mixture worth ₹ 6.30 a kg.
    (A) 1 : 3   (B) 2 : 3   (C) 3 : 4   (D) 4 : 5

49. A pixel is :
    (A) A computer program that draws picture
    (B) A picture stored in secondary memory
    (C) The smallest resolvable part of a picture
    (D) None of these

50. Flexible manufacturing allows for :
    (A) factory management (B) automated design
    (C) tool design and tool production (D) quick and inexpensive product change

51. Two files in DBMS can be joined into a third file if :
    (A) they have a row in common
    (B) they have a field in common
    (C) they have no records with the same value in the common field
    (D) None of these

52. Find the next two numbers in the series : 1, 2, 4, 7, 11, 16, ___ , ___ .
    (A) 21, 24 (B) 22, 29 (C) 31, 39 (D) 32, 39

53. A train can travel 50% faster than a car. Both start from point A at the same time and reach point B, 75 km away from A at the same time. On the way, however, the train lost about 12.5 minutes while stopping at the stations. The speed of the car is :
    (A) 100 kmph (B) 110 kmph (C) 120 kmph (D) 130 kmph

54. Vendor-created program modifications are called :
    (A) Patches (B) Fixes (C) Holes (D) Overlaps

55. The variables that can be accessed by all modules in a program, are known as :
    (A) local variables (B) internal variables
    (C) external variables (D) global variables

56. Which of the following is also referred to as Universal Gate ?
    (A) AND (B) NOR (C) OR (D) NOT

57. What is the answer yielded by the binary division $11001_2 \div 101_2$?
    (A) 11_2 (B) 101_2 (C) 110_2 (D) 1100_2

58. Different computers are connected to a LAN by a cable and :
    (A) a Modem (B) an Interface card
    (C) Special wires (D) Telephone lines

59. Which of the following is a language processor ?
    (A) assembler (B) compiler (C) interpreter (D) All of these

60. What is Dry Ice ?
    (A) Solid Carbon dioxide (B) NaCl Crystal
    (C) Ice at minus 50 degrees C (D) Solid H_2O

61. Desk checking is involved with :
    (A) coding the program
    (B) debugging the program
    (C) running the program
    (D) compiling the program

62. Data items grouped together for storage purposes, are called :
    (A) Record
    (B) Title
    (C) List
    (D) String

63. What are .bas, .doc, and .html examples of ?
    (A) Extensions
    (B) Domains
    (C) Database
    (D) Protocols

64. A program P calls two sub-programs P1 and P2. P1 can fail 50% of the times and P2 can fail 40% of the times. P therefore can fail _____ of the times.
    (A) 50%
    (B) 60%
    (C) 10%
    (D) 70%

65. What is the address given to a computer connected to a network, called ?
    (A) System Address
    (B) SYSID
    (C) Process ID
    (D) IP Address

66. Who won the Men's singles Tennis Championship at the 2014 US Open ?
    (A) John Wayne
    (B) Roger Federer
    (C) Marin Cilic
    (D) Wilfried Tsonga

67. The difference of $1\frac{3}{16}$ and its reciprocal is :
    (A) $1\frac{1}{8}$
    (B) $1\frac{1}{3}$
    (C) $\frac{15}{16}$
    (D) $\frac{105}{304}$

68. A feasibility study should focus on :
    (A) technical feasibility
    (B) economic feasibility
    (C) operational feasibility
    (D) All of these

69. Which of the following UNIX commands can be used to get information about all users that are logged onto the system at that time ?
    (A) Which
    (B) Who
    (C) Who am i
    (D) I/ u

70. Which of the following is a non-metallic mineral ?
    (A) Bauxite
    (B) Magnesium
    (C) Manganese
    (D) Gypsum

71. The first element in a string, is :
    (A) the name of the string
    (B) the first character in the string
    (C) the length of the string
    (D) the name of the array holding the string

72. Find the missing numbers in the series : 1, 3, 6, 8, 16, 18, ___, ___, 76, 78.
    (A) 26, 67
    (B) 36, 38
    (C) 32, 45
    (D) 52, 104

73. Which of the following attributes of text-box control, allow to limit the maximum character ?
    (A) size
    (B) len
    (C) Maxlength
    (D) All of these

74. If $\left(\dfrac{5}{8}\right)$ of 24 $= \left(\dfrac{15}{7}\right) \times$ a, then the value of 'a' is :

    (A) $\dfrac{7}{225}$
    (B) 7
    (C) 8
    (D) 15

75. Which of the following communication modes supports two-way traffic, but in only one direction at a time ?
    (A) Simplex
    (B) Half-duplex
    (C) Three-quarters duplex
    (D) All of these

76. Who was appointed as the Chief Justice of India on 28th September, 2014 ?
    (A) Justice Hardayal Singh Randhawa
    (B) Justice Oberoi
    (C) Justice Durga Banerjee
    (D) Justice Handyala Lakshminarayanaswamy Dattu

77. Two trains of equal length are running on parallel lines in the same direction at 46 km/hr and 36 km/hr. The faster train passes the slower train in 36 seconds. The length of each train is :
    (A) 50 m
    (B) 72 m
    (C) 80 m
    (D) 82 m

78. The smallest element of an array's index is called its :
    (A) Lower bound
    (B) Upper bound
    (C) Range
    (D) Extraction

79. The JAVA package that contains the scanner class is :
    (A) java.lo
    (B) java.lang
    (C) java.net
    (D) java.util

80. Which of the following sequences is different from the rest ?
    (A) 1, 1, 2, 3, 5, 8, 13, ...
    (B) 0, 2, 2, 4, 6, 10, 16, ...
    (C) 1, 3, 4, 7, 11, 18, 29, ...
    (D) 1, 2, 3, 6, 11, 20, 37, ...

81. Which is the keyword which is used to tell the computer to bring in a package, which is a library of classes ?
    (A) export
    (B) support
    (C) transport
    (D) import

82. Which of the following tags are used to add rows in a table in HTML ?
    (A) <TD> and </TD>
    (B) <TH> and </TH>
    (C) <TR> and </TR>
    (D) <RW> and </RW>

83. In a mixture of 60 litres, the ratio of milk and water is 2 : 1. If this ratio is to be 1 : 2, then the quantity of water to be further added is :
    (A) 20 litres
    (B) 30 litres
    (C) 40 litres
    (D) 60 litres

84. The sum of two numbers is 45. Their difference is 1/9th of their sum. Their LCM is :
    (A) 100
    (B) 150
    (C) 200
    (D) 250

85. Three equal glasses are filled with mixtures of milk and water. The proportion of milk and water in each glass is as follows : In the first glass 3 : 1, in the second glass 5 : 3 and in the third glass 9 : 7. The contents of the three glasses are emptied into a single vessel. What is the proportion of milk and water in it ?
    (A) 21 : 17
    (B) 17 : 21
    (C) 31 : 17
    (D) 17 : 31

86. Port Blair is situated in :
    (A) North Andaman
    (B) South Andaman
    (C) Middle Andaman
    (D) Little Andaman

87. When a language has the capability to produce new data types, it is said to be :
    (A) reprehensible
    (B) encapsulated
    (C) overloaded
    (D) extensible

88. A search procedure which associates an address with a key value and provides a mechanism for dealing with two or more values assigned by the same address is called :
    (A) linear search
    (B) binary search
    (C) hash coded search
    (D) radix search

89. Which of the following functions returns the largest integer less than or equal to the given number ?
    (A) Math.floor( )
    (B) Math.abs( )
    (C) Math.round( )
    (D) Math.ceil( )

90. A system program that sets up an executable program in main memory ready for execution is :

   (A) assembler   (B) linker   (C) loader   (D) compiler

91. Find the missing term : AYD, BVF, DRH, ___, KGL

   (A) FMI   (B) GMJ   (C) GLJ   (D) HLK

92. A train 360 m long is running at a speed of 45 km/hr. In what time will it pass a bridge 140 m long ?

   (A) 40 sec   (B) 42 sec   (C) 45 sec   (D) 48 sec

93. The combination of the top-down and the bottom-up approach may be referred to as :

   (A) Interactive approach   (B) Interpretative approach
   (C) Integrative approach   (D) None of these

94. Which part of the potato plant do we eat ?

   (A) Root   (B) Seed   (C) Flower   (D) Stem

95. Which of the following is a storage device that uses rigid, permanently installed magnetic disks to store data/information ?

   (A) Floppy diskette   (B) Hard disk   (C) Permanent disk   (D) None of these

96. The computer code for interchange of information between terminals is :

   (A) ASCII   (B) BCD   (C) BCDIC   (D) Hollerith

97. Who was sworn in as the Governor of Kerala in September 2014 ?

   (A) P. Sathasivam   (B) K. Narayanan
   (C) V. Namboodaripad   (D) Mohanan Kutty

98. What is the name of the software that allows us to browse through web pages called ?

   (A) Browser   (B) Mail Client   (C) FTP Client   (D) Messenger

99. A language developed to assist children in learning geometric shapes and computing aspects is :

   (A) COBOL   (B) BASIC   (C) LOGO   (D) None of these

100. Which is the only country crossed by a tropic circle/line and the equator ?

   (A) Brazil   (B) Congo   (C) Indonesia   (D) Australia

101. The term FLOSS is associated with :
   (A) Non open source software
   (B) Proprietary software
   (C) Open source software
   (D) None of these

102. IC chips used in computers are usually made of :
   (A) Lead
   (B) Silicon
   (C) Chromium
   (D) Gold

103. Which of the following is **not** an attribute of the <HR> element ?
   (A) SIZE
   (B) ALIGN
   (C) COLOR
   (D) SHADE

104. Which is the correct HTML to left-align the contents inside a cell ?
   (A) <tdleft>
   (B) <td ralign = "left">
   (C) <td align = "left">
   (D) <td leftalign>

105. Which of the following symbols is used in UNIX to run a job in the background ?
   (A) +
   (B) ?
   (C) &
   (D) ^

106. The hottest planet in our solar system is :
   (A) Venus
   (B) Earth
   (C) Mars
   (D) Moon

107. A tiny piggy bank contains, ₹ 1, 50 paise and 25 paise coins in the ratio 1 : 2 : 3. If their total value is ₹ 154, then what is number of 25 paise coins ?
   (A) 168
   (B) 112
   (C) 56
   (D) 156

108. If $20.4 \times a = 12.24$, then $a = ?$
   (A) 0.6
   (B) 0.06
   (C) 6.60
   (D) 0.66

109. Dial-back systems :
   (A) prevent hackers from calling the computer
   (B) force the user to call the computer twice to get access
   (C) require no effort by systems personnel to implement
   (D) receive calls and call back if user is authorized

110. What comes next : AZ, CX, FU, __?__
   (A) IR
   (B) IV
   (C) JQ
   (D) KP

111. The main function of a database, is to :
   (A) check all the input data
   (B) check all spellings
   (C) collect and organize input data
   (D) None of these

112. The FIFO algorithm :
     (A) executes first the job that last entered the queue
     (B) executes first the job that first entered the queue
     (C) executes first the job with the least processor needs
     (D) none of these

113. The deepest trenches of the ocean are found in the :
     (A) Indian Ocean   (B) Pacific Ocean   (C) Arctic Ocean   (D) Atlantic Ocean

114. Element double array [7] is which element of the array ?
     (A) Sixth   (B) Seventh   (C) Eighth   (D) None of these

115. What is the full form of HTTP ?
     (A) Hydro Terrestrial Transfer Pipe   (B) Hypertext Transfer Protocol
     (C) Hypertext Transport Protocol   (D) Highlight Transmission Product

116. In MS Word, which of the following signifies creation of a new document ?
     (A) CTRL+N   (B) CTRL+O   (C) CTRL+Z   (D) CTRL+P

117. Which one of the following is the youngest folded mountain range in India ?
     (A) Aravalli Hills   (B) Eastern Ghats   (C) Himalayas   (D) Western Ghats

118. The expression $(11.98 \times 11.98 + 11.98 \times a + 0.02 \times 0.02)$ will be a perfect square for 'a' equal to :
     (A) 0.02   (B) 0.2   (C) 0.04   (D) 0.4

119. The largest producer of Coffee in India is :
     (A) Kerala   (B) Tamil Nadu
     (C) Karnataka   (D) Unified Andhra Pradesh

120. A full binary tree with "n" leaves contains :
     (A) n nodes   (B) $\log_2 n$ nodes   (C) 2n - 1 nodes   (D) 2^n nodes

121. On the feasibility committee, department representatives serve as :
     (A) direct users of the new system   (B) liaison to their departments
     (C) ready sources of information   (D) All of these

122. The Sun shines vertically on the Equator :
     (A) Four times a year   (B) Once a year
     (C) Throughout the year   (D) Twice a year

123. International Date Line Passes through :
   (A)   0° Greenwich
   (B)   180° Greenwich
   (C)   90° Greenwich
   (D)   270° Greenwich

124. Which of the following protocol is used for transferring files from one machine to another ?
   (A) RARP
   (B) ARP
   (C) TCP
   (D) FTP

125. A, B and C can complete a piece of work in 24, 6 and 12 days respectively. Working together, they will complete the same work in :
   (A) $\frac{1}{24}$ day
   (B) $\frac{7}{24}$ day
   (C) $3\frac{3}{7}$ days
   (D) 4 days

126. The method used by computers to represent real numbers is :
   (A)   floating-point notation
   (B)   mantissa
   (C)   base
   (D)   exponent

127. A man takes twice as long to row a distance against the stream as to row the same distance in favour of the stream. The ratio of the speed of the boat (in still water) and the stream is :
   (A) 2 : 1
   (B) 3 : 1
   (C) 3 : 2
   (D) 4 : 3

128. The digital equivalent of an electric series circuit is the _____ Gate.
   (A) NOR
   (B) NAND
   (C) OR
   (D) AND

129. Khyber Pass connects Pakistan with :
   (A) India
   (B) Afghanistan
   (C) Iran
   (D) Uzbekistan

130. What will the function Math.max(−19, −21) return in JAVA ?
   (A) −16
   (B) −17
   (C) −18
   (D) −19

131. How many successive memory locations, each large enough to contain single integer, does the C declaration int b [100] reserve ?
   (A) 200
   (B) 10000
   (C) 100
   (D) 10

132. A communication device that combines transmissions from several Input/Output devices into one line, is a :
   (A) Concentrator
   (B) Modifier
   (C) Multiplexer
   (D) Full-duplex line

133. In Print Preview, you can :
    (A) format text
    (B) print your document
    (C) zoom each page
    (D) all of these

134. Which of the following is **not** a relational database ?
    (A) dBASE IV
    (B) 4th Dimension
    (C) FoxPro
    (D) Reflex

135. Which of the following decides which systems development projects to work on first ?
    (A) Project dictionary
    (B) Systems flowcharts
    (C) Data diagram
    (D) Steering committee

136. Where were the 2014 Asian Games also known as the XVII Asiad held ?
    (A) Sochi, Russia
    (B) Banzai, Chile
    (C) Copernicus, Argentina
    (D) Incheon, South Korea

137. Which of the following will **not** advance the slides in Slide Show view ?
    (A) the ESC key
    (B) the Spacebar
    (C) the ENTER key
    (D) the mouse button

138. HTML tags for which no corresponding close-tag exists, are called :
    (A) solo tags
    (B) empty tags
    (C) unmatched tags
    (D) lonely tags

139. _____ is the process of finding errors in software code.
    (A) Compiling
    (B) Assembling
    (C) Interpreting
    (D) Debugging

140. The ratio of the number of boys and girls in a college is 7 : 8. If the percentage increase in the number of boys and girls be 20% and 10% respectively, what will be the new ratio ?
    (A) 8 : 9
    (B) 17 : 18
    (C) 21 : 22
    (D) Cannot be determined

141. The hill station Halflong is in which Indian state ?
    (A) Sikkim
    (B) Himachal Pradesh
    (C) Uttaranchal
    (D) Assam

142. An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in $1\frac{2}{3}$ hours, it must travel at a speed of :
    (A) 300 kmph
    (B) 360 kmph
    (C) 600 kmph
    (D) 720 kmph

143. Multiprogramming :
   (A) is a method of memory allocation by which the program is subdivided into equal portions, or pages and core is sub-divided into equal portions or blocks
   (B) consists of those addresses that may be generated by a processor during execution of a computation
   (C) is a method of allocating processor time
   (D) allows multiple programs to reside in separate areas of core at that time

144. In UNIX the file that contains a set of instructions which are performed when a user logs in, is :
   (A) .excr
   (B) .profile
   (C) .autoexec
   (D) autoexec.bat

145. As alternatives are evaluated, the best one is recognized as the one :
   (A) best enabling the system to meet its objectives
   (B) representing lowest cost
   (C) with the most advantages
   (D) with the least disadvantages

146. Which command is used in UNIX to uncompress files ?
   (A) unpress
   (B) unfold
   (C) unpack
   (D) None of these

147. What is the mechanism that binds the code and the data it manipulates known as ?
   (A) eradication
   (B) encapsulation
   (C) insulation
   (D) None of these

148. Global agreement in specific control strategies to reduce the release of ozone depleting substances was adopted by :
   (A) Rio de Janeiro Conference
   (B) Montreal Protocol
   (C) Kyoto Protocol
   (D) Vienna Convention

149. A car travels 70 km in one hour before some fault happens, then it travels for 120 km at 30 kmph. For the entire trip, what was the average speed ?
   (A) 33 kmph
   (B) 36 kmph
   (C) 38 kmph
   (D) 40 kmph

150. The XML document structure is like a :
   (A) Nest
   (B) Tree
   (C) Branch
   (D) None of these

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