

DIPLOMA - COMMON ENTRANCE TEST-2019

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|--|-------------------------|---------------------------------------|
| CS | COURSE | DAY : SUNDAY DATE : 21-07-2019 |
| | COMPUTER SCIENCE | TIME : 10.00 a.m. to 1.00 p.m. |
| MAXIMUM MARKS | TOTAL DURATION | MAXIMUM TIME FOR ANSWERING |
| 180 | 200 MINUTES | 180 MINUTES |
| MENTION YOUR DIPLOMA CET NUMBER | | QUESTION BOOKLET DETAILS |
| VERSION CODE | | SERIAL NUMBER |
| A | | 216857 |

Dos :

1. Candidate must verify that the DCET number and Name printed on the OMR Answer Sheet is tallying with the DCET number and Name printed on the Admission Ticket. Discrepancy if any, report to invigilator.
2. This question booklet is issued to you by the invigilator after the **2nd bell i.e., after 9.50 am**.
3. The Version Code of this Question Booklet should be entered on the OMR Answer Sheet and the respective circle should also be shaded completely.
4. The Version Code and Serial Number of this question booklet should be entered on the Nominal Roll without any mistakes.
5. Compulsorily sign at the bottom portion of the OMR answer sheet in the space provided.

DON'Ts :

1. **THE TIMING AND MARKS PRINTED ON THE OMR ANSWER SHEET SHOULD NOT BE DAMAGED / MUTILATED / SPOILED.**
2. **The 3rd Bell rings at 10.00 am, till then;**
 - Do not remove the seal present on the right hand side of this question booklet.
 - Do not look inside this question booklet.
 - Do not start answering on the OMR answer sheet.

IMPORTANT INSTRUCTIONS TO CANDIDATES

1. This question booklet contains **180** (items) questions and each question will have one statement and four answers. (Four different options / responses.)
2. After the **3rd Bell is rung at 10.00 am**, remove the paper seal of this question booklet and check that this booklet does not have any unprinted or torn or missing pages or items etc., if so, get it replaced by a complete test booklet. Read each item and start answering on the OMR answer sheet.
3. During the subsequent **180** minutes :
 - Read each question (item) carefully.
 - Choose one correct answer from out of the four available responses (options / choices) given under each question / item. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **only one response** for each item.
 - Completely darken / shade the relevant circle with a blue or black ink ballpoint pen against the question number on the OMR answer sheet.

| ಸರಿಯಾದ ಕ್ರಮ CORRECT METHOD | ಅನುಕೂಲವಿಲ್ಲ ವ್ಯತಿಖಯಗಳು WRONG METHODS |
|---|---|
|     |                 |

4. Use the space provided on each page of the question booklet for Rough Work. Do not use the OMR answer sheet for the same.
5. After the **last bell is rung at 1.00 pm**, stop marking on the OMR answer sheet and affix your **left hand thumb impression** on the OMR answer sheet as per the instructions.
6. Hand over the **OMR answer sheet** to the room invigilator as it is.
7. After separating the top sheet (KEA copy), the invigilator will return the bottom sheet replica (candidate's copy) to you to carry home for self-evaluation.
8. Preserve the replica of the OMR answer sheet for a minimum period of **ONE year**.

CS-A



CONFIDENTIAL

PART - A

APPLIED SCIENCE

1. One of the basic unit in SI is

- (A) Newton (B) Joule
(C) Kilometer (D) Ampere

2. The pitch of screw is $\frac{1}{2}$ mm. The number of divisions on head scale of screw gauge is 50.

The least count of screw gauge is

- (A) 0.1 mm (B) 0.5 mm
(C) 0.01 mm (D) 0.05 mm

3. Which one of the following is a vector quantity ?

4. The magnitude of resultant of two forces \vec{P} & \vec{Q} acting perpendicular to each other is

- (A) $\sqrt{P^2 + Q^2}$ (B) $\sqrt{P^2 - Q^2}$
 (C) $P^2 - Q^2$ (D) $P^2 + Q^2$

5. A force of 50 N acts at a point making an angle of 30° with the horizontal. The vertical component is

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6. A couple produces
(A) pure linear motion (B) pure rotational motion
(C) both linear and rotational motion (D) neither linear nor rotational motion

7. The resultant of two like parallel forces acts in the direction of
(A) same as that of two forces (B) opposite to two forces
(C) perpendicular to two forces (D) direction cannot be specified

8. The reciprocal of bulk modulus of elasticity is called
(A) Compressibility (B) Rigidity
(C) Modulus of elasticity (D) Viscosity

9. A steel wire has a cross sectional area of 0.05 m^2 . If the maximum stress of steel wire is 1000 N/m^2 . The force is
(A) $20 \times 10^3 \text{ N}$ (B) 50 N
(C) 200 N (D) 20 N

10. The pressure at a point on surface of a liquid is
(A) minimum (B) maximum
(C) zero (D) infinity

11. The pressure exerted by sea water of density 1025 kg/m^3 on a fish at a depth of 10 m ($g = 10 \text{ m/s}^2$) is
(A) 1025 kPa (B) 10.25 kPa
(C) 1.025 kPa (D) 102.5 kPa

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23. In the expression for velocity of sound in air, $V = \sqrt{\frac{\gamma P}{\rho}}$, notation γ is equal to
- (A) $C_p + C_v$ (B) $C_p - C_v$
(C) $C_p \times C_v$ (D) $\frac{C_p}{C_v}$
24. Velocity of sound in outer space is
- (A) 3×10^8 m/s (B) 330 m/s
(C) zero (D) 360 m/s
25. A string of length 1 m and mass 0.04 kilogram vibrates with fundamental frequency of 100 Hz then the tension in the string is
- (A) 4000 N (B) 1600 N
(C) 400 N (D) 1000 N
26. Nodes and antinodes are characteristics of
- (A) Stationary waves (B) Longitudinal waves
(C) Transverse waves (D) Beats
27. Natural frequency of a string does not vary with
- (A) thickness (B) applied force
(C) tension (D) length
28. The electromagnetic radiation used in Forensic Department to study the finger print is
- (A) Ultraviolet Ray (UV Ray) (B) Radio wave
(C) Micro wave (D) X-ray

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36. Magnalium is an alloy made by the combination of aluminium and



37. Zinc-carbon battery is an example for

38. Which of the following is not a polymer?

39. Ceramic is which type of material ?

- (A) Composite material (B) Alloy
(C) Polymer (D) Bio-material

40. The pH value of distilled water is

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PART - B**ENGINEERING MATHEMATICS**

41. If $A = \begin{bmatrix} -3 & 4 \\ 2 & 0 \end{bmatrix}$ and $B = \begin{bmatrix} -1 & 2 \\ -2 & 1 \end{bmatrix}$, then $B^T \cdot A^T$ is

(A) $\begin{bmatrix} 3 & 8 \\ -4 & 0 \end{bmatrix}$

(B) $\begin{bmatrix} -5 & -2 \\ -2 & 4 \end{bmatrix}$

(C) $\begin{bmatrix} 5 & 2 \\ -2 & -4 \end{bmatrix}$

(D) $\begin{bmatrix} 5 & 2 \\ 2 & 4 \end{bmatrix}$



42. The value of the $\begin{vmatrix} \tan \theta & 0 & -1 \\ 1 & 0 & \tan \theta \\ 2 & -1 & 3 \end{vmatrix}$ is

(A) $-\sec^2 \theta$

(B) $\operatorname{cosec}^2 \theta$

(C) 1

(D) $\sec^2 \theta$

43. The values of x and y in the simultaneous equations $2x - 3y = 13$ and $3x + 4y = -6$ are

(A) $x = -3, y = 2$

(B) $x = -2, y = -3$

(C) $x = 2, y = -3$

(D) $x = 2, y = 3$

44. If $\begin{vmatrix} 3 & -2 & 4 \\ 4 & 0 & x \\ 2 & -5 & 4 \end{vmatrix} = -4$, then the value of x is

(A) 4

(B) -4

(C) $\frac{44}{19}$

(D) $-\frac{44}{19}$

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45. The characteristic roots of the matrix $\begin{bmatrix} 2 & 0 \\ 0 & -3 \end{bmatrix}$ are
- (A) $\lambda = 2$ and $\lambda = 3$ (B) $\lambda = -2$ and $\lambda = -3$
(C) $\lambda = 2$ and $\lambda = -3$ (D) $\lambda = -2$ and $\lambda = 3$
46. The adjoint of the matrix $\begin{bmatrix} 4 & 2 \\ -3 & 1 \end{bmatrix}$ is
- (A) $\begin{bmatrix} 1 & -2 \\ 3 & 4 \end{bmatrix}$ (B) $\begin{bmatrix} 1 & 3 \\ -2 & 4 \end{bmatrix}$
(C) $\begin{bmatrix} 4 & 2 \\ -3 & 1 \end{bmatrix}$ (D) $\begin{bmatrix} 4 & -3 \\ 2 & 1 \end{bmatrix}$
47. If $A = (1, 2, -3)$ and $B = (2, 0, -1)$ then \overrightarrow{AB} is
- (A) $i - 2j + 2k$ (B) $-i + 2j - 2k$
(C) $3i + 2j - 4k$ (D) $i + 2j - 2k$
48. The work done by the force $\vec{F} = 2i + 6j - 8k$, whose displacement is $\vec{S} = -2i + 3j - k$ is
- (A) 26 units (B) -22 units
(C) 22 units (D) 30 units
49. The vector product of $\vec{a} = 4i - j + k$ and $\vec{b} = 3i - 2k$ is
- (A) $2i - 11j + 3k$ (B) $2i + 11j + 3k$
(C) $2i + 5j + 3k$ (D) $2i + 11j - 3k$
50. When a fair coin is tossed two times, the event A "getting exactly one tail" is given by
- (A) {HT, TH} (B) {TT}
(C) {TH} (D) {TT, HT}

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51. If $\tan \theta = \frac{5}{12}$ and $\pi < \theta < \frac{3\pi}{2}$, then the value of $\sin \theta - \cos \theta$ is

(A) $\frac{17}{13}$

(B) $\frac{7}{13}$

(C) $-\frac{17}{13}$

(D) $-\frac{7}{13}$

52. The value of $\tan 225^\circ \times \cot 405^\circ$ is

(A) 1

(B) -1

(C) 2

(D) $\frac{1}{2}$

53. The value of $\sin 50^\circ \cos 20^\circ - \cos 50^\circ \cdot \sin 20^\circ$ is

(A) $\sin 70^\circ$

(B) $\frac{\sqrt{3}}{2}$

(C) $\frac{1}{2}$

(D) $-\frac{1}{2}$

54. If $\cos A = \frac{15}{17}$ and $\sin B = \frac{3}{5}$, then the value of $\cos(A + B)$ is

(A) $\frac{84}{85}$

(B) $-\frac{36}{85}$

(C) $-\frac{84}{85}$

(D) $\frac{36}{85}$

55. The value of $\sqrt{\frac{1 + \sin 2A}{1 - \sin 2A}}$ is

(A) $\cot\left(\frac{\pi}{4} + A\right)$

(B) $\cot\left(\frac{\pi}{4} - A\right)$

(C) $\tan\left(\frac{\pi}{4} - A\right)$

(D) $\cot\left(\frac{\pi}{2} - A\right)$

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56. The value of $\cos 40^\circ + \sin 10^\circ$ is

- (A) $\sin 20^\circ$ (B) $-\cos 20^\circ$
(C) $\cos 20^\circ$ (D) $-\sin 20^\circ$

57. The value of $i + i^2 + i^3 + i^4$ is

- (A) i (B) $-i$
(C) 1 (D) 0

58. $\lim_{x \rightarrow 0} \frac{x}{\sqrt{1+x}-1}$ is equal to

- (A) 0 (B) 1
(C) 2 (D) ∞

59. $\lim_{x \rightarrow \infty} \frac{3x^3 + 4x + 7}{(6 + x^2)(x - 1)} =$

- (A) 3 (B) -3
(C) $\frac{1}{2}$ (D) $\frac{1}{6}$

60. $\lim_{x \rightarrow 0} \frac{3x + \sin 4x}{2 \sin 3x - 5x} =$

- (A) $\frac{4}{3}$ (B) 7
(C) $\frac{3}{5}$ (D) $\frac{7}{11}$

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61. The slope and y-intercept of the line $6x - 4y + 3 = 0$ are respectively

(A) $\frac{3}{2}$ and $\frac{3}{4}$

(B) $\frac{2}{3}$ and $\frac{4}{3}$

(C) $\frac{-3}{2}$ and $\frac{4}{3}$

(D) $\frac{3}{2}$ and $\frac{2}{3}$

30. (A)

(C)

(D)

62. The equation of the line joining the points $(1, 3)$ and $(2, -4)$ is

(A) $7x - y - 10 = 0$

(B) $7x + y - 10 = 0$

(C) $x + 7y + 10 = 0$

(D) $x - 7y - 10 = 0$



63. If $y = e^{-2x} + 4a^x$, then $\frac{dy}{dx} =$

(A) $\frac{e^{-2x}}{2} + \frac{4a^x}{\log a}$

(B) $e^{-2x} + 4x a^{x-1}$

(C) $-2e^{-2x} + 4a^x \log a$

(D) $2e^{-2x} - 4a^x \log a$

64. If $y = \log(\log 3x)$ then $\frac{dy}{dx} =$

(A) $\frac{1}{x \log 3x}$

(B) $\frac{3}{x \log 3x}$

(C) $2 \log 3x$

(D) $\frac{1}{\log x}$

65. If $xy = x + y^2$, then $\frac{dy}{dx} =$

(A) $\frac{x-2y}{1-y}$

(B) $\frac{1-y}{x-2y}$

(C) $\frac{2y-x}{y-1}$

(D) $\frac{1+y}{x+2y}$

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71. $\int \left(1 + x - \frac{1}{x} + e^x\right) dx$

(A) $1 - \frac{1}{x^2} + e^x + c$

(B) $1 + \frac{x^2}{2} - \frac{1}{x^2} + e^x + c$

(C) $x + \frac{x^2}{2} - \log x + e^x + c$

(D) $x + 1 - \frac{1}{x^3} - e^x + c$

72. $\int e^{\tan x} \cdot \sec^2 x dx =$

(A) $e^{\tan x} + c$

(B) $e^{\sec^2 x} + c$

(C) $e^{\tan^2 x} + c$

(D) $e^{\sec x} + c$



73. $\int \cot^2 x dx =$

(A) $-\operatorname{cosec} x + c$

(B) $-\cot x - x + c$

(C) $-\cot x + x + c$

(D) $\cot x + x + c$

74. $\int x \sin x dx =$

(A) $x \sin x - \cos x + c$

(B) $x \cos x - \sin x + c$

(C) $x \sin x + \cos x + c$

(D) $-x \cos x + \sin x + c$

75. $\int \sqrt[3]{x^2} dx =$

(A) $\frac{5}{2} x^{\frac{5}{2}} + c$

(B) $\frac{3}{5} x^{\frac{5}{3}} + c$

(C) $\frac{5x^{\frac{5}{2}}}{2} + c$

(D) $\frac{x^2}{2} + c$

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$$76. \int_0^{\pi/2} \cos^2 x \, dx =$$

- | | |
|---------------------|---------------------|
| (A) $\frac{\pi}{2}$ | (B) $\frac{\pi}{6}$ |
| (C) $\frac{\pi}{3}$ | (D) $\frac{\pi}{4}$ |

77. The volume of a solid generated when the curve $y = \sqrt{x^2 + 4}$ is rotated about x -axis between the ordinates $x = -1$ and $x = 1$ is

- (A) $\frac{23\pi}{3}$ cubic units (B) $\frac{26\pi}{3}$ cubic units
(C) $\frac{16\pi}{3}$ cubic units (D) 0



78. The order and degree of the differential equation $\frac{dy}{dx} = \sqrt{1 + \frac{d^2y}{dx^2}}$ respectively are

79. The differential equation formed from the equation $y = ae^x + be^{-x}$ by eliminating arbitrary constants is

- (A) $\frac{d^2y}{dx^2} - y = 0$ (B) $\frac{d^2y}{dx^2} + y = 0$
 (C) $\frac{dy}{dx} + y = 0$ (D) $\frac{dy}{dx} - y = 0$

- 80.** Solution of the differential equation $\frac{dy}{dx} = \frac{1+y^2}{1+x^2}$ is

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PART-C
COMPUTER SCIENCE

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- 87.** High level language limitation is
(A) very difficult to maintain (B) low time & space efficiency
(C) difficult to learn and use (D) machine dependency

88. Which is not an input device ?
(A) Keyboard (B) Mouse
(C) Speaker (D) Scanner

89. EEPROM is
(A) Elementary Erasable Programmable ROM
(B) Electrically Erasable Programmable ROM
(C) Enhanced Erasable Programmable ROM
(D) Extended Erasable Programmable ROM

90. Which of the following has worst access time ?
(A) Magnetic disk (B) Compact disk
(C) Semi conductor memory (D) Magnetic tapes

91. When a process is scheduled to run during another process execution, then this process is in
(A) waiting state (B) ready state
(C) blocked state (D) running state

92. CPU scheduling decision may take place under which of these circumstances ?
(A) When a process switches from wait state to ready state.
(B) When a process switches from running state to ready state.
(C) When a process terminates
(D) All of these

93. The fundamental model of inter process communication
(A) shared memory (B) message passing
(C) Both (A) & (B) (D) None of these

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101. _____ value changes during program execution.

102. `sizeof()` in ‘C’ is

103. What is the output of the following code ?

```
void main()
```

{

```
int x = 50/7;
```

```
printf ("%d",x);
```

}

104. _____ keyword is used to skip the current iteration of a loop.

105. How many times Hello is printed ?

```
void main()
```

{

```
int x=0;
```

```
while (x ++ < 5)
```

```
printf ("Hello");
```

1

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106. What is the output of the following 'C' code ?

```
int main()
{
    int i=0;
    for (i ++; i ==1; i ++ )
        printf("FirstLine");
    printf ("SecondLine");
}
```

- (A) FirstLineSecondLine (B) SecondLine
(C) No output (D) Compile time error



107. Variables used in the function call are

- (A) Formal parameters (B) Actual parameters
(C) Dummy parameters (D) Default parameters

108. The return type of user-defined function in 'C' if not specified in function definition is

- (A) void (B) int
(C) double (D) short int

109. Determine the o/p in the following code :

```
# include <stdio.h>
int abc(int);
void main()
{
    int i = abc(5);
    printf ("%d",i);
}
int abc(int i)
{
    return(i++);
}
```

- (A) 4 (B) 5
(C) 6 (D) 7

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110. In 'C', if you pass an array as an argument to a function, what actually gets passed ?

 - (A) Value of elements in array
 - (B) First element of the array
 - (C) Base address of the array
 - (D) Address of the last element of the array

- 111.** What is the effect of the following code ?

main()

1

```
int a[4] = {1, 5};
```

```
printf("%d", a[3]);
```

1

- 112.** If two strings are identical, then strcmp() function returns.

- 113. Why preprocessor is required ?**

- (A) To include header file (B) To include macro expansions
(C) To do conditional compilation (D) All of these

- 114.** Which of the following operation is illegal in structures ?

- (A) Type casting of structure
 - (B) Pointer to a variable of same structure
 - (C) Dynamic allocation of memory for structure
 - (D) All of these

- 115.** The similarity between a structure and union is to define

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116. What does this declaration mean ?

```
int *ptr, p;
```

- (A) ptr is a pointer to integer p.
 - (B) ptr and p, both are pointers to integer.
 - (C) ptr and p are integer.
 - (D) ptr is a pointer to integer and p is integer.

117. What is the output of the following code ?

```
#include <stdio.h>
```

```
void main()
```

1

```
int *ptr, a=5;
```

```
ptr = &a;
```

```
*ptr += 1;
```

```
printf("%d, %d", *ptr, a);
```

1

118. The first element of an array ABC can be accessed by

119. If there is an error while file opening, fopen() will return

120. `getc()` returns EOF

- (A) when getc() fail to read the character.
 - (B) when end of file is reached.
 - (C) Both (A) and (B)
 - (D) None of these

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121. Which of the following is a primitive data type ?

- | | |
|-----------|---------------|
| (A) array | (B) structure |
| (C) enum | (D) boolean |

122. Which data structure is used for implementing recursion ?

- | | |
|-----------|-----------|
| (A) Queue | (B) Stack |
| (C) Array | (D) List |

123. Removing an element from an empty stack leads to

- | | |
|---------------|------------------------|
| (A) underflow | (B) empty collection |
| (C) overflow | (D) garbage collection |



124. Which of the following application/s will use a stack ?

- | | |
|-------------------------------------|---|
| (A) A parantheses balancing program | (B) Tracking of local variables at run time |
| (C) Compiler syntax analyzer | (D) All of these |

125. The postfix form of $A * B + C / D$ is

- | | |
|-------------------|-------------------|
| (A) * A B / C D + | (B) A B * C D / + |
| (C) A * B C + / D | (D) A B C D + / * |

126. A queue works on the concept of

- | | |
|-------------------|-----------------|
| (A) FIFO | (B) LIFO |
| (C) Ordered Array | (D) Linear tree |

127. If the elements "M", "N", "O", "P" are placed in the queue by inserting "M" first and are deleted one at a time, in what order will they be removed ?

- | | |
|----------|----------|
| (A) MNOP | (B) NMOP |
| (C) POMN | (D) PONM |

128. _____ permits Insertion/deletion operation at both the end not in the middle.

- | | |
|--------------------|-------------------|
| (A) QUEUE | (B) DEQUEUE |
| (C) CIRCULAR QUEUE | (D) None of these |

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- 129.** Which of the following 'C' code is used to create new node ?
- (A) `ptr = (NODE *) malloc (sizeof (NODE));`
(B) `ptr = (NODE *) malloc (NODE);`
(C) `ptr = (NODE *) malloc (sizeof (NODE *));`
(D) `ptr = (NODE) malloc (sizeof (NODE));`
- 130.** The statement which is false about a doubly linked list is
- (A) we can traverse in both the directions.
(B) it requires more space than a singly linked list.
(C) the insertion and deletion of a node take a bit longer.
(D) None of these
- 131.** DBMS is a collection of _____ that enables users to create and maintain a database.
- (A) keys (B) translators
(C) programs (D) language activity
- 132.** In an ER diagram _____ symbol is used to describe weak entity.
- (A) Rectangle (B) Double rectangle
(C) Diamond (D) Oval
- 133.** A/An _____ schema describes how the data is physically stored on the disk.
- (A) internal (B) external
(C) relational (D) None of these
- 134.** _____ is an aggregate function used to find the total number of records in a table.
- (A) TOTAL (B) COUNT
(C) MIN (D) SUM
- 135.** The collection of information stored in a database at a particular moment is called as
- (A) Schema (B) Instance
(C) Data domain (D) Intension

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- 136.** Key to represent relationship between tables is called

(A) Primary key (B) Secondary key
(C) Foreign key (D) Candidate key

137. Grant and Revoke are _____ commands.

(A) DDL (B) TCL
(C) DCL (D) DML

138. The value of NULL cannot be

(A) unknown (B) value exists but unknown
(C) 0 (zero) (D) Not applicable

139. _____ command is used to modify a column in a table.

(A) alter (B) update
(C) set (D) create

140. A relation is in _____ if every field contains only atomic values.

(A) 1NF (B) 2NF
(C) 3NF (D) BCNF

141. In JAVA, size of short data type is

(A) 8 bit (B) 32 bit
(C) 16 bit (D) 64 bit

142. Key word used in a sub class to call the constructor of super class is

(A) super (B) this
(C) implements (D) static

143. Which of these is correct way of deriving class B from class A ?

(A) class A extends B { } (B) class B extends A { }
(C) class B extends class A { } (D) class A extends class B { }

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- 152.** Which of the following statement is incorrect ?
- (A) Static methods can call other static methods only.
 - (B) Static methods must only access static data.
 - (C) Static methods cannot refer to this or super key word.
 - (D) When objects of class are declared, each object contains its own copy of static variables.
- 153.** In java the _____ operator is used to access the instance variables and methods of class object.
- (A) dot (.)
 - (B) bitwise
 - (C) instanceof
 - (D) conditional
- 154.** Which package includes all the standard classes of Java ?
- (A) java.math
 - (B) java.io
 - (C) java.lang
 - (D) java.util
- 155.** When a class extends the thread class, it should override _____ method to start.
- (A) init()
 - (B) start()
 - (C) yield()
 - (D) run()
- 156.** Finding the location of the element with a given value is
- (A) Traversal
 - (B) Search
 - (C) Sort
 - (D) None of these
- 157.** How many passes are required to sort a file of size 'n' by bubble sort method ?
- (A) n^2
 - (B) $n - 1$
 - (C) n
 - (D) $n/2$
- 158.** The performance of an algorithm depends on
- (A) Memory & CPU
 - (B) Data & information
 - (C) Determination & dedication
 - (D) Time & space

Space For Rough Work

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- 167.** The purpose of Digital Signature is to provide
(A) Confidentiality (B) Authentication
(C) Non-repudiation (D) Both (B) and (C)
- 168.** The process of deciphering is called as
(A) Crypting (B) Cryptography
(C) Cryptology (D) Cryptanalysis
- 169.** If GPT = FOS, then CSE = _____.
(A) BOS (B) BRD
(C) BQC (D) BTF
- 170.** The process of hiding information inside a picture is called
(A) cryptography (B) steganography
(C) image hiding (D) image compression
- 171.** _____ is / are used to provide single line comment in a PHP.
(A) // (B) #
(C) /* */ (D) All of these
- 172.** _____ is not a conditional statement in PHP.
(A) if (B) if-else
(C) switch (D) None of these
- 173.** Array Index starts with _____ in PHP.
(A) -1 (B) 0
(C) 1 (D) None of these
- 174.** _____ is a predefined variable in PHP.
(A) \$ask (B) \$tel
(C) \$get (D) \$give

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175. In PHP [: alpha :] is same as that of

- (A) [a - z] (B) [A - z]
(C) [A - z] (D) [A - z a - z]

176. Predefined attribute in XML is

- (A) lang : xml (B) xml : Lang
(C) xml : Langs (D) Langs : xml



177. _____ HTML element is used to create a data called polytechnic in XML.

- (A) <polytechnic> (B) <datapolytechnic>
(C) <XMLpolytechnic> (D) <XML>

178. The function/s of XML is/are

- (A) structure information (B) transport information
(C) store information (D) All of these

179. _____ tags are used to provide links in the web pages.

- (A) < alt > and < /alt > (B) < a > and < /a >
(C) < Link > and < /Link > (D) < page > and < /page >

180. _____ tag add colspan = n.

- (A) <td> (B) <table>
(C) <th> (D) <tr>

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