

IPU CET 2023 BCA Question Paper

Time Allowed :2 Hours	Maximum Marks :240	Total Questions :150
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General Instructions

1. The test is of 2 hours duration.
2. The question paper consists of a total of 150 questions.
3. The question paper has four sections: Quantitative Ability, Data Interpretation, Logical Reasoning, and General Awareness, with 37-40 questions each depending on the section.
4. Each correct answer carries 4 marks.
5. For each incorrect answer, 1 mark will be deducted as negative marking.
6. There is no negative marking for unattempted questions.

1. The two kinds of main memory are:

- (A) ROM and RAM
 - (B) primary and secondary
 - (C) floppy disk and hard disk
 - (D) direct and sequential
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2. In computer terminology, what is the full form of RAM?

- (A) Random Access Memory
 - (B) Repeated Access Memory
 - (C) Rapid Access Memory
 - (D) Regular Access Memory
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3. Permanent instructions that the computer use when it is turned ON and t changed by other instructions are contained in:

- (A) ROM
 - (B) RAM
 - (C) ALU
 - (D) SRAM
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4. What is the full form of PROM?

- (A) Programmable Read Only Memory
 - (B) Program Read Output Memory
 - (C) Program Read Only Memory
 - (D) Primary Read Only Memory
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5. Which of the following acts as a buffer between the CPU and the main memory

- (A) primary memory
 - (B) cache memory
 - (C) secondary memory
 - (D) RAM
-

6. The storage device used to compensate for the difference in rates of flow from one device to another is termed as:

- (A) chip
 - (B) channel
 - (C) floppy
 - (D) buffer
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7. Which media has the ability to have data/information stored (written) on them by users more than once?

- (A) CD-R discs
 - (B) CD-RW discs
 - (C) Zip discs
 - (D) Optical discs
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8. The term Bit is short for:

- (A) megabyte
 - (B) binary language
 - (C) binary digit
 - (D) binary number
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9. KiloByte equals how many bytes?

- (A) 1000
- (B) 1035

- (C) 1008
 - (D) 1024
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10. How many kilobytes make a megabyte?

- (A) 128
 - (B) 1024
 - (C) 256
 - (D) 512
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11. The term 'gigabyte' refers to:

- (A) 1024 byte
 - (B) 1024 kilobyte
 - (C) 1024 megabyte
 - (D) 1024 gigabyte
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12. Which of the following is an octal number equal to decimal number $(896)_{10}$?

- (A) 0061
 - (B) 6001
 - (C) 1006
 - (D) 1600
-

13. The most widely used code that represents each character as a unique 8-bit code is:

- (A) ASCII
 - (B) UNICODE
 - (C) BCD
 - (D) All of the above
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14. Two inputs A and B of NAND gate have 0 output, if:

- (A) A is 0
 - (B) B is 0
 - (C) Both are zero
 - (D) Both are 1
-

15. Which of the following are known as universal gates?

- (A) NAND and NOR
 - (B) AND and OR
 - (C) XOR and OR
 - (D) AND
-

16. If A represents '1' and o represents '0'. What will be the one's complement of oΔΔooΔ ?

- (A) 011001
 - (B) 100110
 - (C) 101010
 - (D) 000000
-

17. A collection of various programs that helps to control your computer is called:

- (A) system software
 - (B) application software
 - (C) Microsoft Excel
 - (D) Microsoft Word
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18. Operating system is a:

- (A) application software
 - (B) system software
 - (C) hardware
 - (D) language
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19. A kind of system software, which is responsible for loading and relocating of the executable program in the main memory is:

- (A) loader
 - (B) linker
 - (C) translator
 - (D) presentation software
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20. Application software:

- (A) is used to control the operating system
 - (B) is designed to help programmers
 - (C) performs specific task for computer users
 - (D) is used for making design only
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21. Which among the following is not an example of system software?

- (A) Operating System
 - (B) Debugger
 - (C) Software Driver
 - (D) Adobe Photoshop
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22. Example(s) of open-source software is/are:

- (A) Linux
 - (B) Unix
 - (C) MySQL
 - (D) All of these
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23. Which of the following is the correct reason to use an operating system?

- (A) To manage resources
 - (B) To control the hardware
 - (C) To provide an interface between the hardware and user
 - (D) All of the above
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24. Which of the following is an operating system?

- (A) Linux
 - (B) Debugger
 - (C) Mozilla
 - (D) Google Chrome
-

25. Which one of the following is not an operating system?

- (A) Linux
- (B) Unix
- (C) Intel
- (D) Windows

26. Which among the following is not a mobile operating system?

- (A) Android
- (B) Safari
- (C) Symbian
- (D) iOS

27. Python is a:

- (A) low level language
- (B) high level language
- (C) machine language
- (D) assembly language

28. The central processing unit consist of:

- (A) The arithmetic logic unit
- (B) The registers
- (C) The control unit
- (D) All of the above

29. The computer keyboard in English normally uses:

- (A) Abcdef base
- (B) QWERTY base
- (C) Asdfg base
- (D) None of the above

30. Alta Vista is a:

- (A) Virus
- (B) Vista theme
- (C) Windows OS
- (D) Search Engine

31. The forces acting at a point are called as:

- (A) Collinear forces
- (B) Coplanar forces

- (C) Concurrent forces
 - (D) Unit forces
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32. What is the distance between the focus and the pole of the mirror known as?

- (A) Centre of Curvature
 - (B) Focal length
 - (C) Mirror number
 - (D) Radius of curvature
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33. What can be the maximum number of electrons in a shell, if the principal quantum number is n ?

- (A) n
 - (B) n^2
 - (C) $2n^2$
 - (D) $3n^3$
-

34. What will be the number of neutrons in an atom having atomic number 35 and mass number 80?

- (A) 35
 - (B) 45
 - (C) 55
 - (D) 80
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35. Who can be associated with the theory of evolution?

- (A) Charles Darwin
 - (B) Mendel
 - (C) Stanley Miller
 - (D) Harold Urey
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36. Which of the following hormones is known to be helpful in coping with stress?

- (A) Serotonin
- (B) Calcitonin
- (C) Melatonin
- (D) Testosterone

37. Washing soda is used:

- 1. for removing permanent hardness of water**
- 2. for disinfecting drinking water**
- 3. as a cleaning agent for domestic purpose**

Which of the above is/are correct?

- (A) Only 1 and 2
 - (B) Only I and 3
 - (C) Only 2 and 3
 - (D) All of the above
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38. The apparent weight of a man in a lift is less than the real weight when

- (A) the lift is going up with an acceleration
 - (B) the lift is going down with uniform speed
 - (C) the lift is going up with uniform speed
 - (D) the lift is going down with an acceleration
-

39. What is the unit for momentum?

- (A) newton second
 - (B) joule second
 - (C) erg second
 - (D) pascal second
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40. Which of these indicates the splitting of different colours of light in a prism?

- (A) Reflection of light
 - (B) Dispersion of light
 - (C) Diffraction of light
 - (D) Refraction of light
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41. Which among the following plays a role in production of alcohol in beer?

- (A) Bacteria
 - (B) Protozoan
 - (C) Virus
 - (D) Yeast
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42. What is the name of eye drops designed to improve age-related near-vision problems that are recently approved by the US Food and Drug Administration?

- (A) Vuity
 - (B) Vision
 - (C) Corneas
 - (D) Eye power
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43. Scientists working at which one of the following discovered 'God's particle'?

- (A) NASA
 - (B) CERN
 - (C) ISRO
 - (D) CNES
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44. The additional 8% human genome sequenced account for _____ million new letters added to the existing sequenced DNA.

- (A) 40
 - (B) 200
 - (C) 280
 - (D) 400
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45. Bacteria was first observed in the year

- (A) 1892
 - (B) 1754
 - (C) 1676
 - (D) 1588
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46. Virus contains_____ number of ribosomes

- (A) 18
 - (B) 22
 - (C) 10
 - (D) None of the above
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47. Which of the following statements are true or false?

I. Endemic when it spreads across the globe is called a pandemic.

II. Epidemic is a disease that is permanently present in a region or population

- (A) Both I II are true
 - (B) Both I II are false
 - (C) I is true but II is false
 - (D) I is false but II is true
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48. Which taste zone of the human tongue is a sour taste zone?

- (A) Front
 - (B) Front sides
 - (C) Back
 - (D) Back sides
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49. BlockChain Technology has the following hall mark feature/s:

- (A) Reliability and consistency
 - (B) Flexibility and reliability
 - (C) Traceability and reliability
 - (D) Traceability but not reliability
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50. Which one among the following is not a characteristic of 'big data'?

- (A) Value
 - (B) Veracity
 - (C) Consistency
 - (D) velocity
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