

Operating System:

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While a computer is switched on, its operating system software has to stay in:

- A) External storage
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To execute more than one program at a time, the system software used must be capable of:

- A) Virtual memory
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- C) Multitasking
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Which of the following is an open-source mobile operating system?

- A) iOS
- B) Windows Phone
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Which component of the CPU is responsible for controlling the sequence of operations and managing the flow of data?

- A) Register
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Which type of software license lets users see the source code, change it, and share it with others?

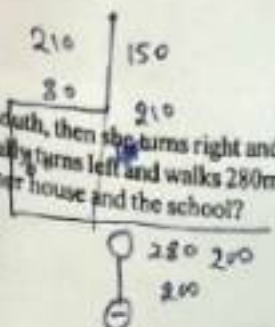
- A) Open-source license
- B) Proprietary license
- C) Freeware license
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The highest data transfer rate is provided by which of the following of the storage device?

- A) Magnetic Tape
- B) Hard Disk Drive
- C) Solid State Drive
- D) Optical Disk

... starts walking from her house and walks 150m south, then she turns right and walks 80m, and then she turns left and walks 60m. She finally turns left and walks 280m to reach a school. What is the shortest distance between her house and the school?

- A) 270m
B) 280m
C) 290m
D) None of the above



76. Pointing to a woman, Ram said, "She is the daughter of the only son of my grandfather."
How is the woman related to Ram?
A) Sister
B) Sister-in-law
C) Mother
D) Aunt

Handwritten calculations: 220 , 150 , 25 , 45 , $C=100$, $B=130$, $A=90$, 26 , 13 , 10 .

77. A sum of Rs. 270 is to be divided among A, B, and C such that A gets twice as much as B, and B gets Rs. 30 more than C. What is the ratio of their shares?
A) 12:6:4
B) 9:5:4
C) 10:5:3
D) 12:7:5

Handwritten calculations: $2 = 30$, 150 , 180 , 90 , 60 , $A = 260$, $B = 130$, $C = 100$, 120 , 49×7 , 649 , 2 , 342 , 549 , 26 , 29 .

78. If x and y are integers such that $x + y = 14$ and $x - y = 4$, what is the value of $x \times y$?
A) 54
B) 45
C) 36
D) 63

Handwritten calculations: $x + y = 14$, $x - y = 4$, $2x = 18$, $x = 9$, $y = 5$, 15 , 10 , 15 , 30 , 10 , 15 , 30 .

79. A boat can travel 30 km downstream in 2 hours and the same distance upstream in 3 hours. How long will it take the boat to travel 45 km downstream and then 30 km upstream?
A) 5:30 hours
B) 5:45 hours
C) 7 hours
D) None of the above

Handwritten calculations: 180 , 90 , 6×15 , 2 , 3 , 220 , 12×15 , 180 , 2×15 , 0.5 , 25 , 48 , 15 , 45 .

80. A train 120 m long is running at a speed of 54 km/h. It takes T_1 time to cross the pole and T_2 time to cross the 180 m long platform. What is the difference in time ($T_2 - T_1$), in seconds, taken by the train to cross the platform and the pole?

- A) 10 seconds
B) 12 seconds
C) 15 seconds
D) 18 seconds

Handwritten calculations: $54 \times 3 = 162$, 120 , 180 , 300 , 180 , 120 , 60 , 10 , 12 , 18 , 36 , 30 , 10 .

(Set - D)

Handwritten calculations: $\frac{3}{54} \times \frac{5}{18}$, 15 sec, 15 , 120 , 15 , 8 sec, 20 sec, $5 \times 3 = 15$, 3.25 , 36 , 11 , 3600 , 315 , 350 , 5.25 , 3.25 , 5.25 , 3.25 .

40. The Sadhana Press is in which district of Jammu & Kashmir?
- A) Baramulla
B) Anantnag
C) Kathua
D) Kupwara

41. The average age of 12 students in a class is 20 years. When 3 new students join the class, the average age of the class increases by 1 year. What is the average age of the 3 new students?
- A) 22
B) 23
C) 24
D) 25

42. A shopkeeper sells two articles for Rs. 1,500 each. On the first article, he makes a 20% loss percentage on the total transaction. What is the overall profit or loss percentage on the total transaction?
- A) 7.99% loss
B) 6.79% loss
C) 7.69% loss
D) 8.69% loss

43. The ratio of milk to water in a mixture is 5 : 3. Some quantity of this mixture is removed and replaced with pure water. After this operation, the ratio of milk to water becomes 1 : 3. If the container initially had 12 litres of mixture, how much of the mixture was removed and replaced?
- A) 10 litres
B) 15 litres
C) 12 litres
D) 18 litres

44. Find the least number divisible by 2, 3, 4, 6 and 12 which is a perfect square.
- A) 224
B) 225
C) 729
D) 720

45. If number 'N' leaves a remainder 3 when divided by 7, what will be the remainder when '7N' is divided by 7?
- A) 0
B) 1
C) 2
D) 3

46. A trader buys 100 pens at Rs. 20 each. He sells 60 pens at a 10% profit and the remaining 40 pens at a 5% loss. What is the overall profit or loss percentage?
- A) 4% profit
B) 4% loss
C) 2% profit
D) 2% loss

47. A can complete a piece of work in 12 days, and B can complete the same work in 18 days. A and B start working together but after 3 days, A leaves the work. Immediately after A leaves, C joins B. If A and C together finish the remaining work in 4 days, then C alone can complete the entire work in x days. What is the value of x?
- A) 11.68 days
B) 11 days
C) 12.65 days
D) 12 days

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55. Consider the following statements about Akhnor Fort, located about 28 km away from Jammu city:
- The fort is on the right bank of the river Jhelum.
 - The fort was built around 1762 - 1802 at the behest of Raja Tegh Singh.
- How many of the above statements are correct?
- Only I
 - Only II
 - Both I and II
 - Neither I nor II
56. Consider the following statements about the fairs and festivals of Jammu & Kashmir:
- Purmandal Mela is organized on Shivaratri (February-March).
 - Jhiri mela (October-November) is held around the legend of Baba Jitu.
- How many of the above statements are correct?
- Only I
 - Only II
 - Both I and II
 - Neither I nor II
57. Kashmir has been creating Kashan and Kirman, Tabriz and Isfahan with up to the artistry. These are subtypes of?
- Basholi Paintings
 - Persian Rugs
 - Music forms
 - None of the above
58. Which of the following species found in Jammu & Kashmir are critically endangered?
- Hangul
 - Snow Leopard
 - Himalayan Tahr
 - Muskdeer
- Options:
- I and II only
 - II and III only
 - I and IV only
 - All of the above
59. The Kashmir valley is surrounded by the range of Himalayas, bounded on the south by the _____ Range and on the northeast by the _____ Range.
- Choose the correct option to fill the blanks:
- Great Himalayan range and Pir Panjal range, respectively
 - Ladakh range and Pir Panjal range, respectively
 - Great Himalayan range and Ladakh range, respectively
 - Pir Panjal range and Great Himalayas range, respectively

50. Match the following Dams with their associated Rivers

- DAMS**
- i. Mettur
 - ii. Ukai
 - iii. Bisalpur
 - iv. Pilur

- RIVERS**
- 1. Kaveri
 - 2. Tapi
 - 3. Bhavani
 - 4. Gomti

Options:

- A) i-1, ii-2, iii-3, iv-4
- B) i-4, ii-1, iii-2, iv-3
- C) i-2, ii-1, iii-3, iv-4
- D) i-1, ii-2, iii-4, iv-3

51. Which of the following best distinguishes weather from climate?

- A) Weather refers to long-term atmospheric trends, while climate refers to daily conditions
- B) Weather describes short-term conditions, while climate represents long-term average
- C) Weather and climate are interchangeable terms
- D) Climate refers only to temperature, while weather includes all atmospheric elements

52. Eastern Rail Dedicated Freight Corridor connects which two places?

- A) Sahnewal (Punjab) and Dankuni (Bengal)
- B) Varanasi (Uttar Pradesh) and Dankuni (Bengal)
- C) Sahnewal (Punjab) and Varanasi (Uttar Pradesh)
- D) None of the above

53. Which of the following statements correctly explains the historical-cultural significance of Kashmir's *Rangrez* and *Namda* traditions?

- A) Rangrez refers to Buddhist mural painting of the Kushan period, while Namda is a silk-based carpet introduced during Afghan rule.
- B) Rangrez was a hereditary dyeing community patronised during the Mughal period, and Namda is a felted wool floor covering associated with Sufi symbolism.
- C) Rangrez denotes miniature painting influenced by Persian Safavid art, while Namda represents papier-mache craft developed under Dogra rulers.
- D) Rangrez is a form of folk theatre linked to the Bhand Pather tradition, while Namda is a temple wall-painting style from early Shaivism.

54. As per Economic Survey, 2024-2025, the UT of Jammu and Kashmir contributes ____ % to national GDP in proportion to its population being ____ % of total national population.

- A) 0.8 and 0.98, respectively
- B) 0.98 and 0.8, respectively
- C) 0.8 and 0.8, respectively
- D) 0.98 and 0.98, respectively

46. Match the following:

National Leaders

- i) Mahatma Gandhi
- ii) Bhagat Singh
- iii) Subhash Chandra Bose
- iv) Bal Gangadhar Tilak

Options:

- A) i-3, ii-4, iii-1, iv-2
- B) i-3, ii-2, iii-4, iv-1
- C) i-3, ii-2, iii-1, iv-4 ✓
- D) i-4, ii-2, iii-3, iv-1

Contribution

- 1. Azad Hind Fauj
- 2. Central Legislative Assembly Bombing
- 3. Dandi March
- 4. Swaraj is my birthright

47. Which body is responsible for conducting the census in India?

- A) Election Commission of India
- B) NITI Aayog
- C) Ministry of Statistics
- D) Ministry of Home Affairs ✓

48. Which river rises in Khamrupat hill in the Chhotanagpur plateau and is called the "river of sorrow"?

- A) Mahanadi
- B) Son
- C) Damodar ✓
- D) Ghaggar

49. Which of the following are the tributaries of the Kaveri River?

- I. Arkavati
- II. Ponnaiyaru
- III. Shimsha
- IV. Lakshman Tiru
- V. Tungbhadra ✓

Options:

- A) I, II, III only
- B) II, IV, V only
- C) I, III, IV only ✓
- D) All of the Above

38. Fill in the blanks with appropriate prepositions.
The management decided to act _____ the recommendation of the expert panel and proceed _____ the proposed reforms.
- on, with
 - upon, for
 - by, to
 - in, on
39. Change the following sentence from Active voice to Passive voice.
Do the work at once.
- The work should be done at once.
 - At once, the work be done by you.
 - Let the work be done at once.
 - You are asked to do the work at once.
40. Change the following sentence from Passive voice to Active voice.
The room keys have been forgotten by Shilpa.
- Shilpa had forgotten the room keys.
 - Shilpa had been forgotten the room keys.
 - Shilpa have forgotten the room keys.
 - Shilpa has forgotten the room keys.
41. Who has received the 2025 World Leader for Peace and Security award?
- Sri Sri Ravi Shankar
 - Ban Ki-moon
 - Maria Corina Machado
 - Vjosa Osmani
42. Kodikaral Solar Observatory (KSO) is located in which state?
- Andhra Pradesh
 - Karnataka
 - Kerala
 - Tamil Nadu
43. Consider the following statements about India's location and choose the correct option.
- India lies entirely in the tropical zone. ✗
 - India lies in the Northern and Western hemispheres. ✗
 - India lies in the Northern and Eastern hemispheres. ✗
 - India lies entirely in the temperate zone.
44. The Tropic of Cancer does NOT pass through which Indian state?
- Manipur ✗
 - Tripura ✓
 - Mizoram ✓
 - Bihar ✓
45. Which of the following are two works of Kalidasa?
- Raghuvamsha and Ratnavali
 - Meghadutta and Malvikagnimitra ✓
 - Harshcharita and Kirtarjuniya ✗
 - Mali Madhav and Raghuvamsha

31. Which of these homophone pairs can confuse in understanding policies?
 A) council / counsel
 B) capital / capitol
 C) principal / principle
 D) all of the above
32. Read the sentences and underline the subordinate clause.
 Although I was not up for a movie, I watched 'Avatar in hall No.5' with my friend.
 A) Avatar in hall No.5
 B) With my friend
 C) Although I was not up for a movie
 D) None of the above
33. Select the most appropriate antonym of the given word
 WINSOME
 A) Cheerful
 B) Charming
 C) Bewitching
 D) Repellent
34. Select the most appropriate synonym of the given word
 UMBRAGE
 A) Calmness
 B) Acclaim
 C) Resentment
 D) Pleasure
35. Select the sentence that correctly punctuates the given sentence.
 I therefore request you to grant me leave.
 A) I therefore, request you to grant me leave.
 B) I, therefore, request you to grant me leave.
 C) I therefore request, you to grant me leave.
 D) None of the above
36. Choose the option that correctly expresses the meaning of the idiom used in the sentence:
 By submitting the reports early, the manager wanted to **steal a march** on its competitor.
 A) To gain an unfair advantage by illegal means
 B) To achieve an advantage by acting before others
 C) To imitate someone else's strategy
 D) To withdraw quietly from a competition
37. Choose the option that correctly expresses the meaning of the idiom used in the sentence:
 The minister **threw down the gauntlet** by openly questioning the opposition's policies.
- A) To retreat from a public stance
 B) To issue a direct challenge
 C) To seek compromise through debate
 D) To expose confidential information

Fill in the blank using suitable articles. When no article is required, select no article among the given options.

Karan speaks _____ Spanish. He believes, honesty is _____ best policy.

- A) no article, the
- B) an, no article
- C) an, the
- D) an, a

Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'NO IMPROVEMENT'.

On hearing the news over the radio that India has won the football match, I jumped with joy.

- A) won the football match
- B) had won the football match
- C) had win the football match
- D) No Improvement

Fill in the blank with the most suitable modal:

This is impossible, it _____ be a mistake.

- A) can
- B) might
- C) must
- D) would

Select the most appropriate INDIRECT form of the given sentence

Newton said to Thomas, "how is your research going?"

- A) Newton asked Thomas how was your research going.
- B) Newton asked Thomas how his research was going.
- C) Newton asked Thomas how is your research going.
- D) Newton wanted to know how was Thomas's research going.

From the below paragraph, answer the Q. No.'s 29, 30 and 31.

Effective governance requires careful planning and inclusive decision-making. However, despite numerous development programs, some districts still lack sufficient resources, making efforts to reduce poverty seem _____ (1) compared to the scale of national challenges. Officials must actively consult local stakeholders, as _____ (2) have firsthand insights into community needs and implementation challenges. Furthermore, clear communication is essential, especially when issuing circulars or guidelines, because confusing words like _____ (3) can cause errors in understanding policies.

Which idiom fits the blank to mean "not enough to make a real difference"?

- A) A drop in the ocean
- B) Break the ice
- C) Bite the bullet
- D) Call it a day

Which pronoun correctly refers to "local stakeholders"?

- A) who
- B) they
- C) those
- D) these

Global warming also causes extreme weather events like heatwaves, droughts, and hurricanes to become more frequent and intense. These events not only pose a threat to human life but also disrupt ecosystems, agriculture, and water resources. Another concern is the loss of biodiversity. Many species of plants and animals cannot adapt quickly to the changing climate, leading to a decline in their populations.

To mitigate the effects of global warming, international agreements like the Paris Agreement aim to reduce carbon emissions and promote the use of renewable energy sources. Governments, organizations, and individuals all have a role to play in addressing this pressing issue. By adopting sustainable practices, such as reducing energy consumption and protecting forests, we can help slow down global warming and protect the planet for future generations.

21. What is the primary cause of global warming?
- A) Natural climate cycles
 - B) Human activities like burning fossil fuels and deforestation
 - C) Volcanic eruptions
 - D) Sun's natural heat increases
22. How does global warming impact biodiversity?
- A) It leads to the adaptation of all species
 - B) It creates more favorable environments for wildlife
 - C) It increases the growth of all plant species
 - D) It causes many species to decline due to the changing climate
23. What is one of the strategies suggested to mitigate global warming?
- A) Reducing energy consumption
 - B) Increasing industrial activities
 - C) Reducing forest cover
 - D) Expanding fossil fuel production
24. Given below are four scattered segments of two sentences. Indicate the correct sequence that correctly assembles the segments and completes the sentence.
- P. due to rapid urbanization
 - Q. environmental degradation has increased
 - R. and unplanned industrial growth
 - S. in many developing regions
- The most appropriate sequence should be
- A) P-Q-S-R ✗
 - B) P-S-Q-R ✗
 - C) Q-P-R-S ✓
 - D) S-R-Q-P ✗
- Q.P. Q.S.P.R.

15. In an email address, the symbol "@" separates:
- Protocol and domain Name
 - Domain and Host Name
 - Folder and Username
 - User Name and Domain Name
16. Which of these protocols ensures secure email transmission?
- FTP
 - HTTP
 - SSL/TLS
 - TCP
17. The following feature in Word allows you to combine letters with a database of addresses?
- Track Changes
 - Header & Footer
 - AutoCorrect
 - Mail Merge
18. _____ symbol is used to start a formula in Excel
- %
 - =
 - +
 - #
19. Which type of query retrieves data based on a condition?
- Update Query
 - Append Query
 - Select Query
 - Delete Query
20. Which key is used to start a slide show from the beginning?
- F1
 - F5
 - F7
 - F9

Read the following passage carefully and answer the questions No.'s 21 to 23:

Global warming refers to the gradual increase in the Earth's average temperature, primarily due to human activities such as burning fossil fuels (coal, oil, natural gas), deforestation, and industrial processes. These activities release greenhouse gases like carbon dioxide (CO_2) and methane (CH_4) into the atmosphere, which trap heat and cause the planet to warm up. As a result, the Earth's climate is undergoing significant changes.

One of the most noticeable effects of global warming is the melting of ice caps and glaciers, especially in the polar regions. The rise in global temperatures accelerates the melting process, leading to a rise in sea levels. This can result in the flooding of coastal areas, affecting millions of people around the world.

8. Which of the following firmware is responsible for initializing hardware and loading operating system?
 - A) Device driver
 - B) Compiler
 - C) BIOS
 - D) Kernel
9. Which output device is most appropriate for printing large engineering drawings?
 - A) Laser printer
 - B) Plotter
 - C) Inkjet printer
 - D) Dot matrix printer
10. Which input device reads characters printed using special magnetic ink?
 - A) OCR
 - B) OMR
 - C) MICR
 - D) Bar code reader
11. Which generation of computers introduced the concept of integrated circuits (ICs)?
 - A) First generation
 - B) Second generation
 - C) Third generation
 - D) Fourth generation
12. The smallest unit of data in a computer is called:
 - A) Block
 - B) Bit
 - C) Byte
 - D) Word
13. The binary number equivalent to decimal 10 is:

$(10)_{10}$

8	4	2	1
1	0	1	0

 - A) 1010
 - B) 0101
 - C) 1111
 - D) 1001
14. Full Form of ISP?
 - A) Internal Service Protocol
 - B) Internet Secure Protocol
 - C) Integrated Service Provider
 - D) Internet Service Provider

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