



CYBER

School Level Examination

GRADE

9

DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED TO DO SO

- * All questions are compulsory.
- * Read the instructions on the **ANSWER SHEET** and fill in your **NAME, CLASS and OTHER INFORMATION**.

To mark your choice of answer by darkening the circles in the Answer Sheet, use an **HB Pencil** only.

- * You **MUST** record your answers on the **ANSWER SHEET**.
- * There are 50 **MULTIPLE CHOICE QUESTIONS**. Use the information provided to choose the **BEST** answer among the four possible options.

On your **ANSWER SHEET** fill in the oval that matches your answer.

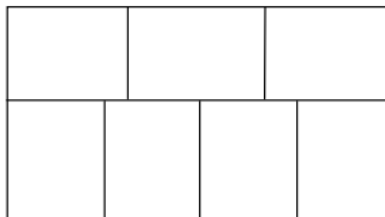
- * Marks are **NOT** deducted for incorrect answers.
- * Return the **Answer Sheet** to the invigilator at the end of the examination.
- * Write your Roll No. on the Question Paper too and take it home for future reference.
- * You are **NOT** allowed to use a calculator.

You may use a ruler and spare paper for rough work.

Section - A

(This section contains 10 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which only ONE is correct.)

1. If Moon is called Star, Star is Sun, Sun is Earth, Earth is Jupiter, Jupiter is Mars and Mars is Mercury, where does man live?
(A) Mars (B) Sun
(C) Jupiter (D) Earth
2. Choose the odd one out.
(A) Helium (B) Neon
(C) Argon (D) Oxygen
3. Complete the series
13, 15, 18, 22, 27, 33, _____
(A) 40 (B) 41
(C) 42 (D) 44
4. How many rectangles are there in the picture given below?

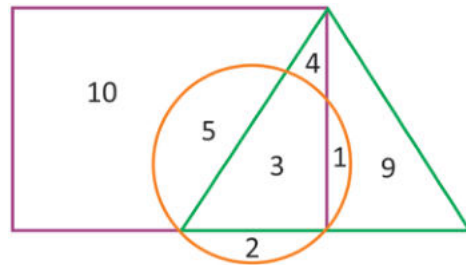


- (A) 10 (B) 12
(C) 13 (D) 15
5. If Read : Books :: _____ : _____
(A) Song : Ear (B) Light : Bulb
(C) Sing : Song (D) Fire : Match
6. Train A leaves Patna for Jaipur and travels at a constant speed. At the same time, Train B leaves Jaipur for Patna and also travels at a constant speed. Town X is between Patna and Jaipur. Patna, Town X and Jaipur lie on a straight line. Which train has lesser speed?

Which of the following statements are sufficient to answer the given question?

- I. Train B arrives at Town X before Train A.
- II. Town X is closer to Patna than Jaipur.

- (A) Statements I and II both are needed.
 (B) Statement II alone is sufficient to answer the problem.
 (C) Statement I alone is sufficient to answer the problem.
 (D) Statements I and II both are not sufficient.
7. Cube is related to Square in the same way as Square is related to _____.
- (A) Plane (B) Triangle
 (C) Point (D) Line
8. Father is to mother as Grandfather is to _____.
- (A) Aunt (B) Cousin
 (C) Grandmother (D) Mother
9. Look at the following image and answer the following question. The rectangle represents the people who like eating. The circle represents the people who like to run. The triangle represents the people who like to sleep.



How many people are there who only like to run?

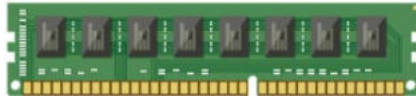
- (A) 3 (B) 5
 (C) 2 (D) 7
10. In a certain code, BOXER is written as AQWGQ. How VISIT is written in that code?
- (A) UKRKU (B) UKRKS
 (C) WKRKU (D) WKRKS

Section - B

(This section contains 25 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which only ONE is correct.)

11. Which of the following is not a primary storage device?

(A)



(B)



(C)



(D) All of these

12. Choose the Incorrect statement about System Software.

- (A) System software serves as the interface between hardware and the end users.
- (B) System software consists of programs written in low-level languages which interacts with hardware at a very basic level.
- (C) System Software is a collection of programs designed to operate, control, and extend the processing capabilities of the computer.
- (D) System Software are developed by motherboard manufactures.

13. Identify the INCORRECT statement.

- (A) On a standard personal computer, an operating system handles signals from input and output devices, manages memory usage and controls peripherals.
- (B) An operating system is a master program that a computer uses to execute user-level programs.
- (C) DOS, Microsoft Windows XP, LINUX and Mac OS are some examples of operating systems.
- (D) A system must run all kinds of operating system.

14. What does CAN stand for?

- (A) City
- (B) Central
- (C) Campus
- (D) Common

15. Which of the following human quality does artificial intelligence try to imitates?

- (A) Sleeping
- (B) Decision Making
- (C) Emotion
- (D) Speech

16. Which of the following systems was built and configured to mimic the working of the building blocks of the human brain?

- (A) Artificial Intelligence (B) Machine Learning
(C) Neural Network (D) None of these
17. Identify the product based on the given features.
- (i) These consist of an inner copper wire of varying thickness surrounded by insulation and another conducting shield.
- (ii) Their stiffness causes a lot of difficulty to network administrators during installation.
- (iii) They were invented in 1880s and were used to connect television sets to home antennas.
- (A) USB cable (B) Coaxial cable
(C) Audio cable (D) Twisted pair cable
18. Which of the following are not the uses of Spreadsheets?
- (A) Spreadsheets are used to process and manipulate data with sorting and filtering.
- (B) Spreadsheets are used in very limited professions to only calculate and create graphs, and to store information.
- (C) Spreadsheets act like a calculator by automatically doing calculations when the data and formulas are entered.
- (D) We use Spreadsheets to track personal investments, budgeting, invoices, tracking the inventory, statistical analysis, etc.
19. The chips that mimic the human brain's ability to be both analytical and intuitive in order to deliver context and meaning to large amounts of data are called _____ computer architectures.
- (A) Neuromorphic (B) Uhomomorphic
(C) Anamorphic (D) Humomorphic
20. The steps to build a GUI frame are listed below. Choose the correct sequence of steps from the given options.
1. Make the frame visible by calling the setVisible() method.
 2. Set the size of the frame by using the inherited setSize() method.
 3. Construct the component hierarchy by adding panels and other GUI control components.
 4. Pack the frame by calling the pack() method.
 5. Create the frame.
- (A) 1 → 2 → 3 → 4 → 5 (B) 1 → 3 → 5 → 2 → 4

(C) 3 → 5 → 2 → 4 → 1

(D) 5 → 4 → 3 → 2 → 1

21. What was the code name of the latest generation of processor architecture launched by Intel in 2016?

(A) Sky Lake

(B) Kaby Lake

(C) Sandy Bridge

(D) Coffee Lake

22. What is the other name for Ethical Hackers?

(A) Black hat hacker

(B) Grey hat hacker

(C) White hat hacker

(D) Cracker

23. Which of these is not a hard disk drive?

(A) SSD

(B) IDE

(C) SATA

(D) SCSI

24. Which of these is the algorithm for the replacement of a page that has NOT been used for the longest time in main memory?

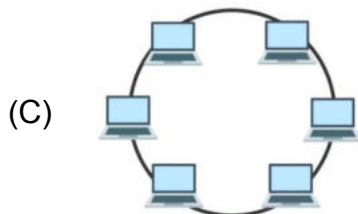
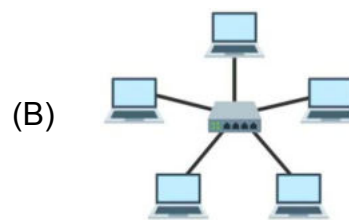
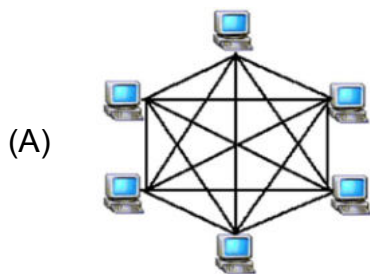
(A) Last In First Out (LIFO) algorithm

(B) Least Recently Used (LRU) algorithm

(C) Optimal page algorithm

(D) First In First Out (FIFO) algorithm

25. Which of the following has the simplest network structure?



(D) None of the above

26. Which of the following is an advantage of Wi-Fi technology?

(A) Wireless networking is significantly faster than wired networking.

(B) A wireless network can be intercepted by anyone within its range using a wireless receiver.

- (C) Wireless networks have a limited number of channels to send data.
- (D) Anyone can login to the network if they have the required credentials.
27. Which of the following is a disadvantage of DBMS?
- (A) DBMS provides improved data security.
- (B) DBMS helps to create an environment in which end users have better access to more and better-managed data.
- (C) DBMS is possible to produce quick answers to ad hoc queries through DBMS.
- (D) None of the above
28. Which of the following companies does not construct motherboards?
- (A) ASUS (B) Intel
- (C) ABIT (D) Terabyte
29. Which professional has the following responsibilities?
- (i) Writing and implementing efficient code.
- (ii) Designing and managing software programs.
- (iii) Testing and evaluating new programs.
- (A) Software developer (B) Network Engineer
- (C) Database administrator (D) Software tester
30. Which of these is a connector between the microprocessor and the motherboard and saves the CPU from getting damaged when the unit is inserted and removed?
- (A) DIMM Socket (B) RJ-45 Connector
- (C) CPU Socket (D) Ethernet Socket
31. The act of copying someone else's ideas and passing them as your own is known as _____.
- (A) Theft (B) Insurance
- (C) Plagiarism (D) Copying
32. Which of the following is not a common issue of Computer Ethics?
- (A) How computers affect society (B) Privacy concerns
- (C) How computers function (D) Property rights
33. Some of the important activities performed by an operating system are listed in Column I and the actions in Column II. Match them.

Column I	Column II
(i) Security	(p) Keeping track of time and resources used by various jobs and users.
(ii) Control over system performance	(q) Production of dumps, traces, error messages, and other debugging and error detecting aids.
(iii) Job accounting	(r) Coordination and assignment of compilers, interpreters, assemblers and other software to the various computer users.
(iv) Error detecting aids	(s) By means of password and similar techniques, it prevents unauthorized access to programs and data.
(v) Coordination between other software and users	(t) Recording delays between request for a service and response from the system.

- (A) (i)→(p), (ii)→(q), (iii)→(r), (iv)→(s), (v)→(t)
 (B) (i)→(s), (ii)→(t), (iii)→(p), (iv)→(q), (v)→(r)
 (C) (i)→(t), (ii)→(s), (iii)→(r), (iv)→(q), (v)→(p)
 (D) (i)→(r), (ii)→(s), (iii)→(t), (iv)→(p), (v)→(q)

34. What is a combination of relative and absolute cell referencing called?

- (A) Tier (B) Mixed
 (C) Twin (D) Double

35. Which of these is NOT a Spreadsheet software?

- (A)  (B) 
 (C)  (D) 

Section - C

(This section contains 15 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which TWO are correct.)

36. Harsh was asked to prepare a chart on the sales report of his company and send it to his boss. What are the types of applications that he must have used?
- (A) Text Editor (B) Spreadsheet
(C) Presentation (D) E-mail
37. Identify the INCORRECT statements.
- (A) The Second Generation computers were heavier and costlier as they used transistor.
(B) They used symbolic languages instead of cryptic languages.
(C) The Second Generation computers used transistors.
(D) They were slower but efficient than First Generation computers.
38. The speed of a CPU is commonly measured in which of the following units?
- (A) KHz (B) MHz
(C) GHz (D) MBPS
39. Which of the following are not optical storage devices?
- (A) HDD (B) Floppy
(C) DVD (D) CD
40. _____ is a form of data processing in which a number of input jobs are grouped for processing during the course of the same machine run and _____ is a technique in which the input the processed quickly enough to control an output.
- (A) Batch processing (B) Bundle processing
(C) Time sharing (D) Real-time processing
41. Which of these are used to combine text in Excel?
- (A) CONCAT (B) *
(C) & (D) ADD
42. Wireless is the _____ transfer of information between the positions that are not connected by an electrical conductor. The common wireless technologies uses _____.
- (A) Electromagnetic (B) Ultrasonic
(C) Infrared waves (D) Radio waves
43. Choose the INCORRECT statements from the ones given below.
- (A) A database is a structured collection of data.

- (B) It allows the database users to store, retrieve, and update data from the database.
 - (C) Few examples of DBMS software are EXCEL, Lotus 1-2-3, Spreadsheet, etc.
 - (D) A DBMS software can be used in offices to create presentation and present them in a unique way.
44. Which of the following are not Intel CPU?
- (A) Core i3
 - (B) Xeon
 - (C) Threadripper
 - (D) Ryzen 7
45. Which of the following are the correct ways to secure your system?
- (A) Give password protection to important files and folders.
 - (B) Install Firewall and Antivirus programs on your systems.
 - (C) Use public Wi-Fi's as they are more secure.
 - (D) Open attachment and files from e-mails.
46. The steps to break a page in MS Word are:
- (A) Shift + Enter
 - (B) Insert tab → Pages group → Page Break
 - (C) Ctrl + Enter
 - (D) Insert tab → Pages group → Break
47. Which of the following are image processing software?
- (A) Adobe Photoshop
 - (B) Stykz
 - (C) Gimp
 - (D) Tupi 2D
48. _____ is a type of RAM and _____ is the latest version of it.
- (A) SRAM
 - (B) DRAM
 - (C) DDR4
 - (D) DDR5
49. Commercial applications of neural network technologies generally focuses on solving _____ or _____.
- (A) Complex signal processing
 - (B) Pattern signal processing
 - (C) Pattern recognition problems
 - (D) Complex recognition problems
50. Which of the following topologies would not be affected even if one of the nodes fails?
- (A) Ring
 - (B) Mesh

(C) Bus

(D) Star

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