23-0005-AB

TEST BOOKLET

Time Allowed: 1 hr

PAPER-II

Maximum Marks: 50

COMPUTER HARDWARE AND NETWORK MAINTENANCE

INSTRUCTIONS TO CANDIDATES

Read the instructions carefully before answering the questions: -

1. This Test Booklet consists of 08 (eight) pages and has 50 (fifty) questions.

2. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD 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.

3. Please note that it is the candidate's responsibility to fill in the Roll Number and other required details carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the OMR Answer Sheet liable for rejection.

4. Do not write anything else on the OMR Answer Sheet except the required information. Before you proceed to mark in the OMR Answer Sheet, please ensure that you have filled in the required particulars as per given instructions.

5. Use only Black Ball Point Pen to fill the OMR Answer Sheet.

6. Each question comprises of 04 (four) responses (answers). You are required to select the response which you want to mark on the OMR Answer Sheet. 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.

7. After you have completed filling in all your responses on the OMR Answer Sheet and the examination has concluded, you should hand over to the Invigilator *only the OMR Answer Sheet*. You are permitted to take the Test Booklet with you.

8. Penalty for wrong answers in case of Multiple Choice based Questions:
   THERE WIL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE.
   (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, one-third of the marks assigned to the question will be deducted as penalty.
   (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above to the question.
   (iii) If a question is left blank. i.e., no answer is given by the candidate; there will be no penalty for that question.

COMPUTER HARDWARE AND NETWORK MAINTENANCE

Choose the correct answers for the following questions: (1 x 50 = 50)

1. Spam mails are _____.
   (a) Protective in nature
   (b) Very informative
   (c) Ubiquitous, repetitive, and unavoidable
   (d) None of the above

2. Which is the latest Wi-Fi security protocol?
   (a) WEP
   (b) WPA
   (c) WPA2
   (d) WPA3

3. The Internet which is used by the common man nowadays is:
   (a) Not related to networking
   (b) Youtube
   (c) Inter Networking
   (d) Facebook

4. Which of the following is used to protect the Network?
   (a) Antivirus
   (b) Waterwall
   (c) Networkwall
   (d) Firewall

5. IaaS in Cloud Computing is _____.
   (a) Immediate allocation as storage
   (b) Internet as a storage
   (c) Infrastructure as a service
   (d) None of the above

6. What is common in Android and Linux?
   (a) Both are OS
   (b) Both have FOSS root
   (c) Both originate with Linux Kernel
   (d) All the above

7. The process of RRAS service gives a solution to -
   (a) Network services such as LAN-to-LAN
   (b) Network services such as LAN-to-WAN
   (c) Network services to VPN
   (d) All the above

8. Identify the false statement of Windows Server on cloud:
   (a) It is not related with Azure
   (b) It is related with cloud storage
   (c) It is the advance form of Windows Server service
   (d) It gives a portable way of installation and usage

9. The DNS protocol uses which of the following types of DNS messages?
   (a) Read and write
   (b) Only write
   (c) Only read
   (d) Queries and replies

10. Under which protocol suite does SNMP belong?
    (a) TCP/IP
    (b) OSI
    (c) Physical Layer
    (d) None of the above

11. Which options given below give the best option for the statement, "It authenticates the identity of the application or website, and it encrypts the data that's being transmitted through internet."?
    (a) SSL Certificate
    (b) Cyber Crime
    (c) Public Key
    (d) None of the above

12. The first computer virus was dubbed as:
    (a) Kaspersky Virus
    (b) Creeper virus
    (c) Trojan
    (d) None of the above

13. The GUI in any software stands for:
    (a) Giga Unit Interference
    (b) Graphical User Interface
    (c) Grammar Unix Interchange
    (d) Gear Up Instruction

14. Which of the following term is most appropriate with the following statement?
    "The wide-bandwidth data transmission that transports multiple signals at a wide range of frequencies and internet traffic types, which enables messages to be sent simultaneously and is used in fast internet connections."
    (a) Broadband
    (b) Ku-band
    (c) High frequency signal
    (d) None of the above

15. SNS stands for:
    (a) Scientific National Standard
    (b) Social Networking Service
    (c) Social Networking Site
    (d) Semi Network System

16. The overall architecture of Internet can be described in three levels –
    Level 1: Backbone ISP (Internet Service Provider)
    Level 2: Regional ISPs
    Level 3: Clients.
    Choose the best option from the following:
    (a) True
    (b) False
    (c) Neither true nor false
    (d) The levels are not related to Internet architecture

17. The standard communication protocol used for the transfer of computer files from a server to a client on a computer network is:
    (a) TCP
    (b) FTP
    (c) OSI
    (d) IP

18. HTTP protocol can be used to transfer:
    (a) Videos only
    (b) Sound only
    (c) Data in the form of plain text, audio, video, and so on
    (d) Encrypted plain text only

19. In 1960s, the first version of Telnet was created for:
    (a) APRANET
    (b) INTRANET
    (c) ARPANET
    (d) TELE SERVICE

20. The number of categories for Classes of IP address defined by the IP protocol is:
    (a) 7
    (b) 6
    (c) 5
    (d) 8

21. A communicates with the internet service provider to get you access to the internet, B acts as a management tool for your local area network. What is A and B?
    (a) Switch and Modem
    (b) Modem and Router
    (c) Hubs and Modem
    (d) None of the above

22. Transmission Control Protocol/Internet Protocol has:
    (a) 4 layers
    (b) 7 layers
    (c) 9 layers
    (d) Just 1 layer

23. Which layer of OSI model handles many links and data are expressed in the form of packets?
    (a)   Network Layer
    (b)   Physical Layer
    (c)   Session Layer
    (d)   Transport Layer

24. The interface between an analog signal and a digital processor is _____.
    (a) D/A convertor
    (b) A/D convertor
    (c) Demodulator
    (d) Modulator

25. "In between two devices, only one device is capable of transmitting and receiving data on a network or bus at one time". Which of the following term is related with this statement?
    (a) Simplex
    (b) Full duplex
    (c) Half duplex
    (d) Qua duplex

26. The commonly used pin in the connection of internet in the computer is:
    (a) RJ45
    (b) R11
    (c) B25
    (d) C52

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27. Fiber optics uses:
    (a) Light as carrier of information
    (b) Sound as carrier of information
    (c) Current as carrier of information
    (d) Voltage as carrier of information

28. Bluetooth is used in:
    (a) PAN
    (b) LAN
    (c) WAN
    (d) CAN

29. When was the first 5G launched in India officially?
    (a) 11th September 2021
    (b) 21st January 2022
    (c) 1st October 2022
    (d) 17th February 2023

30. Identify which of the following is not an OS.
    (a) Android
    (b) COBOL
    (c) UNIX
    (d) Macintosh

31. Which of the following is not used for quality check of a printer?
    (a) PPI
    (b) DPI
    (c) PPM
    (d) CPI

32. Which shell is not fit for shell script in a computer program designed to be run by the Unix/Linux shell?
    (a) The Bourne Shell
    (b) The C Shell
    (c) The Korn Shell
    (d) The XP Shell

33. In MS Word the short key to Centre the text is -
    (a) Alt + 1
    (b) Ctrl + E
    (c) Ctrl + L
    (d) Ctrl + T

34. The programming language which is used to develop UNIX OS is:
    (a) C#
    (b) Java
    (c) C
    (d) PASCAL

35. The total number of levels for RAID in DBMS is:
    (a) 4
    (b) 5
    (c) 6
    (d) 7

36. Which of the following is/are not a type of translator in programming?
    (a) Compiler
    (b) Interpreter
    (c) Encryption
    (d) Both compiler and Interpreter

37. Mic is _____.
    (a) An input device
    (b) An output device
    (c) Neither input nor output device
    (d) None of the above

38. In the XOR Logic Gates what will be the output if the inputs are 0 and 1?
    (a) 1
    (b) 0
    (c) Error
    (d) None of the above

39. If 240 volts rms is applied to the primary winding of the transformer with TR 3:1, what will be the resulting secondary no load voltage?
    (a) 80 V
    (b) 90 V
    (c) 65 V
    (d) 60 V

40. Which of the following is not a type of Primarily Transistor?
    (a) Point Contact Transistor
    (b) FET
    (c) BJT
    (d) NNT

41. "The voltage around a loop equals the sum of every voltage drop in the same loop for any closed network and equals zero." Which law is most related with the given statement?
    (a) Ohm's Law
    (b) Kirchooff's Law
    (c) Faradays Law
    (d) Joule's Law

42. An experiment of photoelectric is performed with 4000Å incident radiation and the potential difference to stop the ejection is 2 V. If the incident light is changed to 3000Å, then the potential required to stop the ejection of electrons will be:
    (a) 2 V
    (b) Less than 2 V
    (c) Zero
    (d) Greater than 2 V

43. Digital Multimeter is used for:
    A. measuring a.c. current only
    B. measuring a.c. and d.c. current, voltage and resistance
    C. measuring d.c. current and resistance only
    D. measuring a.c. voltage only

44. What will be the equivalent resistance between A and B?
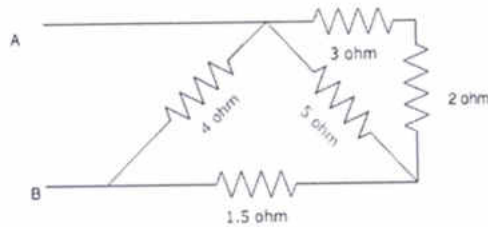
A. 5 ohm
B. 2 ohm
C. 9 ohm
D. 8 ohm

45. What will happen to the potential difference between the two plates in a capacitor when the distance is halved?
   A. Decreased
   B. Increased
   C. Neither increase nor decrease
   D. None of the above

46. If the three capacitors C1, C2 and C3 are connected in parallel then what will be the Capacitance?
   A. C1/(C2+C3)
   B. (C1+C2)/C3
   C. C1+C2+C3
   D. 1/(C1+C2+C3)

47. The reason for the sudden increase in current in Zener diode is due to:
   A. potential difference
   B. the rupture of ionic bonds
   C. viscosity
   D. rupture of covalent bonds

48. The short key for hiding the selected row in MS Excel is:
   (a) Ctrl + 0
   (b) Ctrl + 9
   (c) Ctrl + 3
   (d) Ctrl + H

49. 0 and 1 in computer are:
   (a) Volt
   (b) Resistance
   (c) Capacitance
   (d) None of the above

50. The full form of SMPS is:
   (a) Sender Modify Power Switch
   (b) Switched Mode Power Supply
   (c) Supply Mode Pump Signal
   (d) None of the above