

PHASE I

OBJECTIVE TYPE TEST FOR THE POST OF ASSISTANT ENGINEER
(INFORMATION TECHNOLOGY)

1. Who released the book 'Karmyodha Granth', written on the life of Prime Minister Narendra Modi, on January 07, 2020?
 - a) Amit Shah
 - b) Rajnath Singh
 - c) M. Venkaiah Naidu
 - d) Prakash Javadekar

2. Which state had announced the setting up of the Vikram Sarabhai Children Innovation Center (VSCIC) to identify, nurture and promote children's innovation in the state?
 - a) Madhya Pradesh
 - b) Uttar Pradesh
 - c) Gujarat
 - d) Rajasthan

3. Which organisation developed Quantum Random Number Generator (QRNG)?
 - a) DRDO-Naval Science and Technological Laboratory
 - b) CSIR-Central Electronics Engineering Research Institute (CSIR-CEERI)
 - c) DRDO's Young Scientist Laboratory for Quantum Technologies (DYSL-QT)
 - d) None

4. Which automobile company has become the most valuable two-wheeler company in the world in Jan 2021?

- a) Yamaha Motor Company
- b) Hero MotoCorp
- c) Bajaj Auto
- d) TVS Motor Company

5. What was the theme for Pravasi Bharatiya Divas 9th Jan 2021?

- a) Contributing to Aatmanirbhar Bharat
- b) Apna Bharat, Apna Gaurav
- c) Redefining engagement with the Indian diaspora
- d) Role of Indian Diaspora in building Self-Reliant India

6. In question given below, a part of the sentence is italicised and underlined. Below are given alternatives to the underlined part which may improve the sentence. Choose the correct alternative. In case no improvement is needed, option '**No improvement**' may be chosen as the answer.

If you are living near a market place you should be ready to *bear* the disturbances caused by traffic.

- a) No improvement
- b) bear upon
- c) bear away
- d) bear with

7. In question below, the passage consists of six sentences. The first and sixth sentences are given in the beginning. The middle sentences in each have been removed and jumbled up. These are labelled as P, Q, R and S. Find out the proper order for the four sentences.

S1: Your letter was big relief.

P : How did your exams go?

Q : After your result, you must come here for a week.

R : You hadn't written for over a month.

S : I am sure you will come out with flying colours.

S6: But don't forget to bring chocolates.

a) RPSQ

b) PQSR

c) PRQS

d) QPSR

8. Meaning of the underlined part of the sentence :

He was undecided. He let the grass grow under his feet.

a) loitered around

b) stayed out

c) sat unmoving

d) moved away

9. Give antonym for the word '**Antique**'

a) boutique

b) physique

c) obsolete

d) New

10. Fill up with most appropriate option:

If she _____ a bird, she would fly.

- a) were
- b) was
- c) is
- d) has

11. Read the following information carefully and then answer the question given below it:

A + B means A is the father of B,
A - B means A is the wife of B;
A × B means A is the brother of B;
A ÷ B means A is the daughter of B.

If $P + R \div Q$, which of the following is true?

- a) P is the brother of Q.
- b) P is the husband of Q.
- c) P is the father of Q.
- d) P is the son of Q

12. P, Q, R, S, T, U & V are sitting around a circle facing the center.

P is between V and S.

R, who is second to right of S, is between Q and U.

Q is not the neighbour of T.

In which of the following pairs, the second member is at the immediate right of the first member?

- a) QS
- b) PV
- c) RU
- d) VT

13. Find the missing number in the given series

279936, 46656, 7776, 1296, 216, ?

- a) 46
- b) 60
- c) 66
- d) 36

14. Six lectures are organized during a week, starting from Monday & ending on Sunday. Computer Science is not on Tuesday or Saturday. Psychology is exactly after the Organizational Practices. Statistics is not on Friday & there is a holiday for one day between Statistics & Research Methods. There is not any lecture before Economics (because it a holiday & Monday is not a holiday). How many lectures were organized between Economics & Psychology?

- a) One
- b) Two
- c) Three
- d) Cannot be determined

15. In the following question, choose the number from the given options which is similar to the given set.

992, 733, 845, 632

- a) 425
- b) 114
- c) 326
- d) 947

16. If in a game of 80, P can give 16 points to Q and R can give 20 points to P, then in a game of 150, how many points can R give to Q?
- a) 48
 - b) 60**
 - c) 54
 - d) 90
17. Rahul is 15 years elder than Rohan. If 5 years ago, Rahul was 3 times as old as Rohan, then find Rahul's present age.
- a) 32.5 years
 - b) 27.5 years**
 - c) 25 years
 - d) 24 years
18. Two towns P & Q are 275 km apart. A motorcycle rider starts from P towards Q at 8 a.m. at the speed of 25 km/hr. Another rider starts from Q towards P at 9 a.m. at the speed of 20 km/hr. Find at what time they will cross each other?
- a) 2.45 p.m.
 - b) 2.30 p.m.**
 - c) 1.35 p.m.
 - d) 1.15 p.m.
19. The length and breadth of a playground are 36 m and 21 m respectively. Flagstaffs are required to be fixed on all along the boundary at a distance of 3 m apart. The number of flagstaffs will be?
- a) 40
 - b) 39
 - c) 38**
 - d) 37

20. The difference between a two-digit number and the number obtained by interchanging the digits is 36. What is the difference between the sum and the difference of the digits of the number if the ratio between the digits of the number is 1 : 2 ?

a) 8

b) 4

c) 10

d) 16

21. Which of these is the metadata log?

a) error log

b) ddl log

c) binary log

d) relay log

22. IBM's solution for high-availability clusters on the AIX Unix

a) PowerHA

b) HADR

c) x86 Cluster

d) Failover Cluster

23. In SQL, which command(s) is(are) used to enable/disable all triggers on a table?

a) ALTER TRIGGERS

b) ALTER TABLE

c) MODIFY TRIGGERS IN TABLE

d) None of the above

24. _____ technology is based on the idea of having special Logical Partitions that manage the disk and network resources

- a) LIO
- b) VIO**
- c) VDN
- d) IOPS

25. Methodology in which project management processes were step-by step.

- a) Incremental
- b) Waterfall**
- c) Spiral
- d) Prototyping

26. Which of the following is not considered as an error in JavaScript?

- a) Syntax error
- b) Missing of semicolons
- c) Division by zero**
- d) Missing of Bracket

27. You need to subnet a network that has 5 subnets, each with at least 16 hosts. Which classful subnet mask would you use?

- a) 255.255.255.192
- b) 255.255.255.224**
- c) 255.255.255.240
- d) 255.255.255.248

28. A type of testing that is conducted at the software interface.

- a) gray box
- b) black box
- c) red box
- d) white box

29. Which of the following is not a type of cloud?

- a) Private
- b) Public
- c) Protected
- d) Hybrid

30. Which utility is used to upgrade a FAT32 partition to NTFS?

- a) UPFS
- b) UPGRADE
- c) Disk Manager
- d) CONVERT

31. The initial routine program in Operating System is often referred to as

- a) Initial program
- b) Bootstrap program
- c) Final program
- d) Initial embedded program

32. The ____ lies between the Internet and your SAP system

- a) TREX
- b) SAP Router
- c) Web Dispatcher
- d) SOLMAN

33. MPLS stands for

- a) Multi Point Label Systems
- b) Message Protocol Line Switching
- c) Message Protocol Line Systems
- d) Multi Protocol Label Switching

34. Which of the following combinations can support RAID 05?

- a) 2 sets with 3 disks each
- b) 3 sets with 2 disks each
- c) 2 sets with 4 disks each
- d) 4 sets with 1 disk each

35. Which of the following is the port number for SFTP service?

- a) 21
- b) 22
- c) 23
- d) 69

36. A DoS attack coming from a large number of IP addresses, making it hard to manually filter or crash the traffic from such sources is known as a _____

- a) GoS attack
- b) PDoS attack
- c) DoS attack
- d) DDoS attack

37. A hard disk drive can be directly connected to a PC via a _____.

- a) SCSI interface
- b) Parallel interface
- c) WAN interface
- d) LAN interface

38. Which command is used to remove an index from the database in SQL?

- a) DELETE INDEX
- b) DROP INDEX
- c) REMOVE INDEX
- d) ROLL BACK INDEX

39. Which of these is not a database management system (DBMS)?

- a) Sybase
- b) SAP HANA
- c) MySQL
- d) Cosmos

40. Which one of the following offers CPUs as integrated memory or peripheral interfaces?

- a) Microcontroller
- b) Microprocessor
- c) Embedded system
- d) Memory system

41. Which can control memory usage in a computer?

- a) operating system
- b) applications
- c) hardware
- d) kernel

42. _____ is not an ERP system

- a) S4/HANA
- b) MS Exchange
- c) BAAN
- d) Oracle Peoplesoft

43. For secure connection, Remote access VPNs rely on _____ and _____

- a) IPSec, SSL
- b) L2TP, SSL
- c) IPSec, SSH
- d) SSH, SSL

44. Which one of the following cloud concepts is related to sharing and pooling the resources?

- a) Polymorphism
- b) Virtualization
- c) Abstraction
- d) None of the mentioned

45. What is the decimal equivalent of the binary number 10111?

- a) 21
- b) 39
- c) 23
- d) 42

46. What is reverse WWW shell?

- a) Connecting to a website using a tunnel
- b) A Trojan that connects from the server to the client using HTTP
- c) A Trojan that issues command to the client using HTTP
- d) Connecting through a firewall

47. Command 'sed' is used __

- a) to perform arithmetic calculations
- b) as text filter
- c) to mount a device
- d) as a text editor

48. Which service is used to translate domain names to IP addresses?

- a) DNS
- b) NFS
- c) SMB
- d) NIS

49. The backup plan that is in use when hot and cold sites are in place is referred to as:

- a) redundancy
- b) diversity
- c) mobility
- d) contingency

50. Which type of control protects stored and transmitted data and information against unauthorized disclosure?

- a) Technical control
- b) Access control
- c) Cryptographic control
- d) Physical control

51. Which command is used for adding, deleting, or modifying objects in Active Directory?

- a) DCPROMO
- b) LDIFDE
- c) CSVDE
- d) NSLOOKUP

52. Which of the following is part of an administrative policy to secure a database?

- a) Authentication policies
- b) Limiting particular areas within a building to only authorized people
- c) Ensure appropriate responses rates are in external maintenance agreements
- d) All of the above.

53. SGML stands for

- a) Standard Generalized Markup Language
- b) Structured General Markup Language
- c) Standard Graphics Mapping Language
- d) Standard General Markup Link

54. Which of these operators is used to allocate memory to array variable in Java?

- a) alloc
- b) malloc
- c) new malloc
- d) new

55. The first phase of hacking an IT System is compromise of which foundation of security?

- a) Availability
- b) Confidentiality
- c) Integrity
- d) Authentication

56. Which of the following gives a logical structure of the database graphically?

- a) Entity-relationship diagram
- b) Entity diagram
- c) Database diagram
- d) Architectural representation

57. In Inkjet technology the droplets of ink are deflected by?

- a) multi directional nozzles
- b) electronically charged plates
- c) high pressure plates
- d) electro static absorption

58. You have installed a clean installation of Windows 7 on your computer. You want to create an image of the new installation to use as a basis for remote installs. What Windows 7 utility should you use to accomplish this?

- a) WDS
- b) Windows SIM
- c) ImageX
- d) Sysprep

59. Which tag creates a check box for a form in HTML?

- a) <checkbox>
- b) <input type="checkbox">
- c) <input=checkbox>
- d) <input checkbox>

60. What does vlink attribute mean?

- a) visited link
- b) virtual link
- c) very good link
- d) active link

61. When a peripheral device needs immediate attention from the operating system, it generates an

- a) Interrupt
- b) Spool
- c) Stack
- d) Page file

62. What is the difference between a backdoor and a Trojan?

- a) A Trojan usually provides a backdoor for a hacker.
- b) A backdoor must be installed first.
- c) A Trojan is not a way to access a system.
- d) A backdoor is provided only through a virus, not through a Trojan.

63. Which of the following network is used to connect a number of computers to each other by cables in a single location?

a) WAN

b) LAN

c) MAN

d) PAN

64. Which of the following is considered as the unsolicited commercial email?

a) Virus

b) Malware

c) Spam

d) All of the above

65. Which of the following are the types of scanning?

a) Network, vulnerability, and port scanning

b) Port, network, and services

c) Client, Server, and network

d) None of the above

66. It can be a software program or a hardware device that filters all data packets coming through the internet, a network, etc. it is known as the _____:

a) Antivirus

b) Firewall

c) Cookies

d) Malware

67. In fiber optics, the signal source is..... waves

- a) Light
- b) Infrared
- c) Radio
- d) very low frequency

68. You have a user with limited vision. Which accessibility utility is used to read aloud screen text, such as the text in dialog boxes, menus, and buttons?

- a) Read – Aloud
- b) Orator
- c) Dialog Manager
- d) Narrator

69. If an attribute of a composite key is dependent on an attribute of the other composite key, a normalization called _____ is needed.

- a) DKNF
- b) BCNF
- c) Fourth
- d) Third

70. What type of Rootkit will patch, hook, or replace the version of system call in order to hide information?

- a) Library Level Rootkits
- b) Kernel Level Rootkits
- c) System Level Rootkits
- d) Application Level Rootkits

Signature :