### SCHOOL OF PLANNING AND ARCHITECUTRE, BHOPAL

Written Test for the post of Communication and System Operator Date of Examination: 11/01/2024

Max. Marks. 80	Duration: 1.5 hours
Name of the Candidate:	Roll no. of the candidate:
	,
INSTRUCTIONS	
question paper.  2. If more than one option question/answer will not be of a construction.  3. Ensure that the symbol 'Cross' (X) legibly and the 'Cross' (X) legibly and the construction of the construction of the construction of the construction.  4. Write 'Cross' (X) legibly and the construction of the	clearly. 'Cross' (X) shall be used for indicating your answer. considered for evaluation if any other symbol apart from ing or markings on the question/answer sheet. itted to leave the Examination Room/ Hall before the end of not be given back once the candidate submits the sheet.
<ol><li>15. Each question shall carry one</li></ol>	
Total no. of pages: 14	Questions attempted out of 80:
Signature of the candidate	

Signature of the Invigilator

## PART - A

1.	Arrange fractions in descending ord	er.		
	A. 9/11>8/9>3/5>4/7		C. 8/9>9/11>3/5>4	1/7
	B. 9/11>8/9>4/7>3/5		D. 9/11>3/5>8/9>4	1/7
2.	In a certain code DOWN is written written in that code?	en as '5@9#'	and NAME as '#6%	63'. How is MODE
	A. %653	C. %	<b>65@</b> 3	
	B. %@63	D. %	% <u>@</u> 53	
3.	What is the highest number of satell A. 105	ite ISRO lau C. 102	nched on Feb 15, 2017	?
	B. 103	D. 104		
	B. 103	D. 104		
4.	Neelu said, "I was playing cricket".  A. Neelu says that she had been B. Neelu said that she has been C. Neelu said that she had been D. Neelu said that she was play	n playing crick playing crick playing crick	ket cet	
5.	What least number must be added 23?	to 1056, so	that the sume is comp	oletely divisible by
	A. 2	C. 18		
	B. 3	D. 21		
6.	Paw: Cat:: Hoof:?			
	A. Lamb B. Ho	rse	C. Elephant	D. Tiger
7.	Riya, Tiya, Diya are 3 sisters. If the the youngest? Riya is the oldest, Diya. A. Tiya. B. Riya	_	oldest, Tiya is not the y	
8.	Which county will host the 2024 W(WTSA)?		munication Standardis	sation Assembly
	A. USA	C. India		
	B. China	D. Singapo	re	

B. I asked him w C. I asked him w	to Indirect speech: I so why he was working so why was he working so why had he been work why he had been work	o hard. o hard. ing so hard.	you working so hard?"
10. From a container have thrice. At the end of the	ring pure milk, 20% is the third operation, the	-	
A. 40%	B. 50%	C. 51.2%	D. 58.8%
11. Which of the following A. India	ng country is not part B. China	of QUAD? C. Japan	D. America
<ol> <li>Arrange the words gi</li> <li>Presentation</li> <li>Recommenda         <ul> <li>A. 5, 3, 4, 1, 2</li> <li>B. 3, 5, 4, 2, 1</li> </ul> </li> </ol>	tion 2 C. 3,	ngful sequence: 3. Arrival 4. Discussion 5, 1, 4, 2 3, 1, 2, 4	5. Introduction
<del>-</del>			e horses died. He sold the verall. Find the cost price
A. Rs. 24,000		C. Rs. 25,00	
B. Rs. 20,000		D. Rs. 19,20	00
	in a row. A is on the the left of B, who is s	-	n the left of D, but to the
A. E	B. B	C. A	D. D
15. Who wrote the book A. Atal Bihari Vajpa B. Abdul Kalam Aza	yee	India's Foreign Policy C. Amit Cha D. Raghuran	audhuri
A. We could detent B. He failed to g	te- ts to conceal his ange ect that he was very h ive us an impression of in camouflaging his to know that he was a	appy. of his agony. emotions.	

17. Which sentence demonstrates correct us	sage of the past	perfect tense?
--	------------------	----------------

- A. By the time I arrived, they already ate dinner
- B. She has went to the market yesterday.
- C. They have seen that movie last week.
- D. The team had won the championship before the rain started.
- 18. A man's speed with the current is 15km/hr and the speed of the current is 2.5 km/hr. The man's speed against the current is:

A. 8.5 km/hr

C. 10 km/hr

B. 9 km/hr

D. 12.5 km/hr

19. Statements:

Some flowers are beautiful.

Conclusions:

- I. Some flowers are beautiful
- II. All beautiful things are red.

A. Only conclusion I follows

C. Both conclusion I & II follow

B. Only conclusion II follows

D. Neither conclusion I nor II follow

20. Which Indian state shares its borders with the maximum number of other Indian states?

A. Madhya Pradesh

C. Maharashtra

B. Uttar Pradesh

D. Assam

## PART - B

21.	Telecom switch board cables are used for A. Indoor telecom wiring B. Underground telecom wiring	C. Electrical switch board wiring D. Outdoor telecom wiring
22.	RG 8 cable can be used upto the length of _A. 600 mtrs B. 800 mtrs	C. 400 mtrs D. 500 mtrs
23.	In Telephone Exchange, Power supply card A. Power supply to telephone instruments B. Power supply to peripheral and control C. Power supply for bell circuit D. Ringing power supply to subscribers	-
24.	In the Windows Operating System when deleted, the files:  A. Are moved to secondary hard disk  B. Are permanently deleted  C. Go into the Recycle Bin  D. Go into the Document Folder	the files stored on the hard disk are
25.	A host on the Internet finds another host by A. Postal Address B. IP Address	its: C. Electronic Address D. None of the above
26.	High Quality, high speed, high volume are A. Dot Matrix Printer B. Plotter	terms associated with: C. Inkjet Printer D. Laser Printer
27.	The location of resources on the Internet is A. URL B. Protocol	given by its:  C. Gateway  D. Router
28.	DHCP is the abbreviation of  A. Dynamic Host Control Protocol  B. Dynamic Host Configuration Protocol	C. Dynamic Hyper Control Protocol D. Dynamic Hyper Configuration Protocol

29.	How many USB dev	ices can be con	nected to the U	SB controller?	
	A. 64	B.127	C. 255	D. 256	
30.	The example of an ir	~ -		• .	
	A. Dot-matrix printe	er		ser printer	
	B. Inkjet printer		D. All	of the above	
31.	Social engineering c	yber-attacks are	e best countered	l by:	
	A. Spam filters			ewalls	
	B. Critical thinking		D. An	ti-virus software	
32.	Which of the follow CPU?  A. Invalid memory:		l NOT generat	e an interrupt/exception	to the
	B. System call	address			
	C. A keystroke on a	keyboard			
	· · · · · · · · · · · · · · · · · · ·		action inside m	ain function in C language	<b>a</b>
	D. Cannig another t	isci-dolined lui	iction maide m	im function in C language	,
33.	Which of the followi	ng is not a chai	racteristic of a c	computer?	
	A. Versatility		C. Dil	igence	
	B. Accuracy		D. I.Q		
34.	Which of the archite	cture is power e	efficient?		
	A. CISC	*	C. ISA	4	
	B. RISC		D. IA	NA	
35.	Data moves in and o	ut of the CPU t	_		
	A. Bus		C. Lir		
	B. Electronic wires		D. Ca	bles	
36.	STMP stands for?				
	A. Simple Media Tr	ansfer Protocol	l		
	B. Simple Media Tr	ansfer Protocol	I		
	C. Simple Mail Trai	nsfer Protocol			
	D. Simple Modem	Transfer Protoc	ol		
37.	The arrangement wh	ere all data nas	s through a cen	tral computer is known as	¥:
5	A. Ring Topology	TIS WILL SHOW PAGE	_	r Topology	•
	B. Mesh Topology			s Topology	
	1 07			1 0,	

38.	Why are parity bits used	?				
	A. To encrypt data	C. To identify user				
	B. To detect error	D. None				
39.	Which of these is not a c	compression format file extension?				
	Atar	Crar				
	Bsvg	Dgz				
40.	Which of these operating	g systems is not Unix-based?				
	A. BSD	C. Vista				
	B. Trustix	D. Ubuntu				
41.	Which of the following t	ree data structures is not a balanced binary tree?				
	<ul> <li>A. Splay tree</li> </ul>	C. AVL tree				
	B. B-tree	D. Red-black tree				
42.	What is a zero-day vulne	erability?				
	A. A software bug that has been present for zero days					
	B. A security flaw that is exploited before the software developer releases a fix					
	C. Type of encryption v	ulnerability				
	D. A virus with no know	vn cure				
43.	Which of the following are famous and common cyber-attacks used by hackers to					
	•	infiltrate the user's system?				
	A. DDos and Derive-by Downloads					
	<ul><li>B. Malware &amp; Malvertising</li><li>C. Phishing and Password attacks</li></ul>					
	D. All of the above	ord attacks				
44.	A proxy server is used for	or which of the following?				
	A proxy server is used for which of the following?  A. To provide TCP/IP					
	B. To process client requests for database access					
	C. To process client req					
	•	against unauthorized users				
45.	What technology helps s	secure wireless LANs by encrypting data transmissions?				
	A. VPN (Virtual Private	e Network)				
	B. WPA (Wi-Fi Protect	•				
	,	C. DNS (Domain Name System)				
	D. HTTP (Hypertext Tr	anster Protocol)				

46.	Which graphical user interface (GUI) component allows users to navigate through the file system and folders?  A. Taskbar  B. Start Menu  C. Desktop  D. File Explorer				
47.	What utility tool is u A. Device Manager B. Control Panel	sed in Windows	s to manage installed h C. Disk Defra D. Task Sche	agmenter	
48.	What is the first prog A. BIOS (Basic Inpu B. Operating System C. Bootloader D. Device Driver	t/Output Systen	a computer's memor	ry when it is turned on?	
49.	Which CPU architec A. x86 B. AF		y used in modern con C. RISC	nputers? D. CISC	
50.	What key component A. CPU, ALU and R. B. CPU, GPU and R.	egisters	Von Neumann archit C. CPU, Memory and D. CPU, Hard Drive	d Input/Output	
51.	Which operation add A. Dequeue B. Enqueue	s an element to	the rear end of a queu C. Push D. Pop	e?	
52.	What does a hashing A. Sorts elements in a B. Converts data into C. Allocates memory D. Deletes elements in	ascending order a hash code for for data	storage or retrieval		
53.	order? A. Depth-First Search	n (DFS)	C. QuickSort	a graph in a systematic	
	B. Breadth-First Sear	ch (BFS)	D. MergeSort		
54.	A computer cannot be A. Compiler		have which of the fo C. Operating System	_	
55.	Which of the followin A. Safari	ng is NOT a We B. Android	b Browser C. Chrome	D. Edge	

56.	Full form of DBMS? A. Data of Binary Management System B. Database Management System C. Database Management Service D. Data Backup Management System	1
57.	Which of the following is not an example A. MySQL B. Microsoft Access	ple of DBMS?? C. IBM DB2 D. Google
58.	A telephone network communication is A. Mess B. None of the options are correct	s called C. Full Duplex D. Half Duplex
59.	What is the full form of PRI?  A. Primary Record Input  B. Principal Record Interface	C. Primary Rate Input D. Primary Rate Interface
60.	An assembler is a program to translate A. Assembly to Machine B. Machine to low level program C. High level program to assembly D. Machine to assembly	the program from?
61.	What is the first step in the Software DA. System Designing B. System Development	Development Life Cycle? C. Preliminary Investigation D. Database Design
62.	What is the meaning of EPABX In into A. Electronic Protocol Automatic Bra B. Electron Proton Alpha Beta Excha C. Electronic Private Automatic Bran D. None of the above	nch Exchange nge
63.	What is the prime reason to use Macro A. Keystroke Recording B. Automate repetitive tasks C. Create reviews D. Create files	in MS Word, Power Point, Excel?
64.	EPABX as a switching system make a A. The external switching functions of B. Both internal and external switching C. Internal switching functions of any D. None.	of any organization ng functions of any organization

- 65. EPABX makes each extension behave as a trunk line is called as
  - A. Direct Internet Dialing Facility (DID)
  - B. Direct Inwards Dialing Facility (DID)
  - C. Direct Intranet Dialing Facility (DID)
  - D. Direct Optional Dialing Facility (DOD)
- 66. What is the use of paging in operating system?
  - A. To solve the internal fragmentation problem in operating system
  - B. To solve the external fragmentation problem in operating system
  - C. Both A & B
  - D. None
- 67. How many types of fragmentation occur in operating system?
  - A. Physical fragmentation and virtual fragmentation
  - B. Internal fragmentation and external fragmentation
  - C. Virtual fragmentation
  - D. None
- 68. MESI stands for
  - A. Module Exchange Series Valid
  - B. Modified, Exclusive, Shared, Invalid
  - C. Medium, Exchange, Series, Invalid
  - D. None
- 69. Steps involved in an instructions cycle:
  - A. Formal instruction, Encode, Decode

C.Fetch instruction, Decode, Execute

B. Fetch instruction, Decode, Encode

D. None

- 70. Types of Micro-operation:
  - A. Binary Micro-Operation, Logic Micro-operation, Arithmetic Micro-operation, Register transfer Micro-operation
  - B. Shift Micro-operation, logic micro-operation, Arithmetic Micro-operation, Register transfer Micro-operation
  - C. Both A & B
  - D. None
- 71. Maximum segment length of the 100Base-FX network:
  - A. 450 Meters

C. 422 Meters

B. 412 Meters

D. None

- 72. What is Pseudo TTY?
  - A. A false terminal allowing external machines to log in or to connect through Telnet
  - B. A false terminal allowing the computer to enter into an external portal
  - C. A false terminal allowing the telephone to connect USB port
  - D. None

73.	What is UTP cable?  A. An aluminum cable with resistance of B. A copper cable with resistance of C. A silver cable with resistance of 7 D. None	100 ohms
74.		OP: ack, while POP is used to remove an item while POP is used to add an item to a stack
75.	Difference between NULL and VOID A. NULL is a value, whereas VOID B. NULL is a data identifier, VOID C. NULL is a file identifier, VOID in D. None	is a data identifier is a value
76.	What best describes a MAN?  A. Covers a city or large campus are B. Restricted to a single building	ca C. Spans globally D. Connects devices within a country
77.	In which network topology are all de A. Star B. Ring	vices connected to a single central hub? C. Bus D. Mesh
78.	Which technology is often used to estines?  A. DSL (Digital Subscriber Line)  B. Fibre – optic cables	tablish WAN connections over telephone  C. Ethernet cables  D. Coaxial cables
79.	Which of the following is a protocol computer network? A. HTTP B. FTP	used for secure communication over a  C. HTTPS D. SMTP
80.	What is the default port number for SA. 22 B. 443	SSH? C. 21 D. 25

73.

# SCHOOL OF PLANNING AND ARCHITECUTRE, BHOPAL

Written Test for the post of Communication and System Operator Date of Examination: 11/01/2024

### **ANSWER SHEET**

### **ROLL NUMBER OF THE CANDIDATE:**

Q.				
1	А	В	С	D
2	Α	В	С	D
3	А	В	С	D
4	Α	В	С	D
5	Α	В	С	D
6	Α	В	С	D
7	A	В	С	D
8	Α	В	C	D
9	Α	В	С	D
10	Α	В	С	D
11	Α.	В	С	D
12	Α	В	С	D D
13	Α	В	C	D
14	Α	В	C C	D
15	Α	В		D
16	A.	В	C	D
17	Α	В	C ,	D
18	Α	В	С	Đ
19	Α	В	С	D.
20	Α	В	С	D

Q.				
21	Α	В	С	D
22	Α	В	С	D
23	Α	В	С	D
24	Α	В	С	D
25	Α	В	С	D
26	Α.	В	С	D
27	А	В	С	D
28	A	В	С	D
29	Α	В	С	D
30	Α	В	c	D
31	Α	В	С	D
32	A	В	c c	D
33	A A	В	С	D
34	Α	В	С	D
35	Α	В	С	D
36	A	В	С	D
37	Α	В	С	D
38		В	С	D
39	A A	В	С	D
40	Α	В	С	D

Q.				
41	Α	В	С	D
42	Α	В	С	D
43	Α	В	С	D
44	Α	В	С	D
45	Α	В	С	D,
46	Α	В	С	D
47	Α	В	С	D
48	Α	В	С	D
49	Α	В	С	D
50	A	В	С	D
51	Α	В	С	D
52	Α	В	С	D
53	Α	В	C	D
54	Α	В.	С	Đ
55	A	В	С	D
56	Α	В	С	D
57	Α	В	С	D
58	Α	В	С	D ·
59	Α	В	С	D
60	Α	В	С	D

Q.				
61	Α	В	С	D
62	A	В	С	D
63	Α	В	С	D
64	Α	В	C.	D
65	Α	В	С	D.
66	Α	В	Ċ	D
67	Α	В	С	D.
68	Α	В	С	D
69	Α	В	С	D
70	Α	В	С	D
71	A.	В	С	D
72	А	B	C	D
73	Α	В	C ·	D
74	Α	В	С	D
75	Α	В	C	D.
76	Α	В	C v	D
77	Α	В	С	D
78	Α	В	С	D
79	Α	В	С	D
80	Α	В	С	D

Total questions attempted by the Candidate:	
Number of answers marked more than one option:	
I hereby declare that the information given above is con	rect.
Signature of the Candidate	Signature of the Invigilator