

**No.72/4/2004/EDP/BSF/  
GOVERNMENT OF INDIA  
MINISTRY OF HOME AFFAIRS  
DIRECTORATE GENERAL BORDER SECURITY FORCE  
(IT WING)**

10, CGO Complex,  
Lodhi Road, New Delhi-03.

Dated, the \_\_\_ Aug, 2005

To

ADG BSF East/West  
All Frontier HQrs BSF  
All Training Institutions  
STS BSF New Delhi and Bangalore

**SUB: GENERAL INSTRUCTIONS – 6<sup>TH</sup> INTER FRONTIER COMPUTER AWARENESS COMPETITION' 2005**

IT Wing will host the Inter Frontier Computer Awareness competition' 2005 12<sup>th</sup> Sept, 2005 to 14<sup>th</sup> Sept, 2005 as desired vide Training Dte Sig No. T-4211 dated 22<sup>nd</sup> July, 2005.

1. **AIM**

The aim of the competition is to create computer awareness in the Force and to select a BSF team which will participate in the 49<sup>th</sup> All India Police Duty Meet (AIPDM).

2. **LEVEL OF PARTICIPANTS**

- a) All Frontier HQrs, Training Institutions i.e. BSF Academy Tekanpur, CSWT BSF Indore, TC&S BSF Hazaribagh, STS BSF New Delhi and STS BSF Bangalore will send teams for this competition. Force personnel up to the Rank of Assistant Commandant (GD/Comn) having good knowledge of topics mentioned in the syllabus/Instructions for Computer Awareness competition (enclosed as appendix "B") can participate in the competition. Separate participants can be nominated for each event as mentioned in para 6 below.
- b) Team for AIPDM would be selected out of the participants of this competition, therefore, participants should come prepared to stay in New Delhi for at least 3 months.

3. **VENUE**

Computer Lab  
IT Wing, Comn & IT Dte,  
10 CGO Complex,  
Lodhi Road, New Delhi.

**METHODOLOGY OF THE COMPETITION**

4. **RECEPTION AND ACCOMMODATION**

All participants will be accommodated at STS, New Delhi. Participants should reach STS BSF New Delhi on 11<sup>th</sup> Sept, 2005 (AN) positively. IT Wing Staff will receive the participants at STS BSF New Delhi.

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5. **TRANSPORTATION**

For transportation one bus for participants from STS BSF New Delhi to CGO Complex and back will be provided by Camp Commandant, DG MT Pool, HQ DG BSF from 12<sup>th</sup> Sept, 2005 to 14<sup>th</sup> Sept, 2005. IT Wing will coordinate the vehicle.

6. **ENTRY FORM AND NOMINAL ROLL**

Nominal roll as per enclosed Performa of all teams should reach this office by 26<sup>th</sup> Aug, 2005 positively. All teams should be in possession of a copy of nominal roll and individuals, should possess Identity card.

6. **Events**

- i) **Event -I – Maximum Marks – 100** (One participant)  
This is an individual event; in this objective type questions about Computer fundamentals, Networking, Computer Security, Operating system, Software etc.. will be asked. Negative marking will be done for wrong answers.  
This is a written examination.
- ii) **Event –II- Maximum Marks – 100** (One participant)  
This is an individual event, in this event there are three sections (a) MS Word (b) Power Point (c) Excel, This is a practical exam in which speed, accuracy, imagination and preparation of charts in Excel will be tested.
- iii) **Event –III – Maximum Marks- 100** ( Two participants)  
This is a team event in which two participants from each team will participate. The team will be given a problem and is required to make the programme using MS Access and Visual Basic. In this data basic design, validations, queries, forms and reports will be checked.

5. **SCHEDULE FOR COMPETITION**

**Schedule for the competition is given below:-**

| <b>S/No.</b> | <b>Event</b>                    | <b>Time</b> |      | <b>Date</b> |
|--------------|---------------------------------|-------------|------|-------------|
| 1.           | Documentation /Registration     | 0900        | 1000 | 12-09-2005  |
| 2.           | Opening address by IG (COMN)    | 1030        | 1115 | 12-09-2005  |
| 4.           | Tea Break                       | 1115        | 1145 | 12-09-2005  |
| 5.           | Briefing by EDP Officers        | 1200        | 1300 | 12-09-2005  |
| 6.           | Test for Event-II               | 1430        | 1530 | 12-09-2005  |
| 7.           | Test for Event-III              | 1600        | 1730 | 12-09-2005  |
| 8.           | Test for Event –III (Continued) | 1000        | 1300 | 13-09-2005  |
| 9.           | Test for Event –I               | 1430        | 1730 | 13-09-2005  |
| 10.          | Prize distribution              | 1030        | 1115 | 14-09-2005  |
| 10.          | Closing Ceremony                | 1115        | 1145 | 14-09-2005  |
| 11.          | Dispatch of participants        | 1430        |      | 14-09-2005  |

7. **DRESS CODE**

All members of teams will wear uniform during the conduct of all the events (i.e., opening address, closing address and various competitions)

Encl: **Appendix “A”** Details of competition  
**Appendix “B”** Block syllabus  
**Appendix “C”** Performa of Nominal Roll

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**Copy to:-**

1. DIG, STS BSF New Delhi - With a request to provide accommodation to the Participants w.e.f. 11-09-2005 to 14-09-2005 please. The strength of participants will be about Officers -15, SOs-15 & ORs -30, total – 60.
2. The Camp Comdt,  
DG MT Pool,  
HQ DG BSF N/Delhi - For information with a request to provide Bus/TPT to the 60 Nos of participants as explained above from 12-09-2005 to 14-09-2005 from Tigri to CGO Complex and back.
3. Trg Dte, FHQ New Delhi - For information and necessary action please.

**BSF INTER FRONTIER COMPUTER AWARENESS COMPETITION – 2005-06**

**A. Details of competition**

1. Schedule: - 12<sup>th</sup> Sep, 2005 to 14<sup>th</sup> Sep, 2005
2. Competition is in 3 Events: - Event – I - Fundamentals of Computer-Technology  
Event – II - M S Office  
Event – III - V B & M S Access
3. Event 1 will be a theory paper while Event 2 and Event 3 will be practical examinations. The syllabus of all events will be the same as of the AIPDM.
4. Event 1 will be an individual based exam while Event 2 and Event 3 will be team based.
5. Competitors who have already won medals in the AIPDM in last 3 years can not participate.
6. Frontiers/Training Institutions will send their teams after proper selection and competition at their levels.
7. Nominal roll of the team members must reach IT Wing before 26<sup>th</sup> Aug, 2005 from the Frontiers/Training Institutions.
8. Every Frontiers/ Training Institutions must field participants in each event.
9. Trophies/Prizes will be awarded as follow:-
  - a) Topper(s) in each event
  - b) Winning Team
  - c) Runners-up in each Event.
10. Winners are likely to be considered for selection of BSF Team for the AIPDM.
11. STS will provide accommodation to the participants in Delhi during their stay..
12. Teams should report to IT Wing CGO Complex on 11<sup>th</sup> Sep, 2005.
13. All team members will bring uniform and identity card.
14. No leave will be allowed during the competition.
15. Each team member will bring Medical fitness certificate.

**SYLLABUS FOR COMPUTER AWARENESS COMPETITION**  
**IN THE**  
**ALL INDIA POLICE DUTY MEET**

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**Event 1**

**Objective Type Test**

(Multiple choice, fill in the blanks, true or false and matching)

*Time: 1 hours*

**Max Marks: 100**

**Hardware**

1. Fundamentals of computers
2. Computer generations with changing technology
  - a. Super computer
  - b. Main/ Mini Frames
  - c. Laptops
  - d. RISC/ CISC/ Intel based systems
3. Memories
  - a. Chip
  - b. MOS
  - c. BIOS
  - d. ROM/ RAM/EPROM/ ECC/ DDR/ EDO
  - e. Flash Memory
4. Storage Devices
  - a. Hard disks
  - b. Floppy disks
  - c. CD ROM/ DVD/ DAT/ CTD
  - d. Pen Drive
  - e. RAID
  - f. Storage Networks (SAN)
  - g. Clustering
5. Numbering system
  - a. Binary/ Octal/ Hexa decimal and their conversions
  - b. Binary representations
  - c. Binary calculations (Addition/ Subtraction/ Division/ Multiplication)
  - d. Negative Numbers
  - e. Complements
6. Computer Peripherals
  - a. Printers/ Scanners
  - b. Multi media
  - c. Modems
  - d. RFIDs
7. Different types of ports
8. Computer architecture
  - a. Client – Server
  - b. Host Based / Master Slave
  - c. Hybrid
  - d. Peer to Peer
  - e. Different tiers of architecture (two-tier/ three-tier)

## **Software**

1. Office Suites
  - a. MS Office (Word, Excel, PowerPoint and Access)
  - b. Star Office Suite
  - c. Lotus Smart Suite (Lotus 123, Freelance, Lotus WordPro)
2. Data bases
  - a. Visual FoxPro
  - b. ORACLE
  - c. MS SQL Server
  - d. MYSQL/ PostGre
3. Programming Tools
  - a. Visual Basic, VB .NET
  - b. C
  - c. C++ and Visual C++
  - d. Java
  - e. XML
4. Web designing packages
  - a. HTML
  - b. ASP / ASP .NET
5. Data Warehousing and Data Mining
  - a. OLAP

## **Operating Systems**

1. MS DOS
2. Window 9x/ Windows 2000/ Windows 2003/ Windows NT
3. Novell Netware
4. UNIX/ Linux/ Sun Solaris / HP UX/ AIX

## **Groupware**

1. MS Exchange
2. Lotus Notes
3. Novell Groupware

## **Networking**

1. Fundamentals of networking technology including
  - a. Types of networks
  - b. Hubs, Routers, Switches, Gateways
  - c. Cables (UTP/ FDDI/ Ethernet etc.)
  - d. VSAT Technology
  - e. ISDN/ PSTN, Leased Line, Frame relay
  - f. Wireless LAN technology
2. OSI Layer and its functionalities
3. Protocols
4. Internet/ Intranet/ Extranet
5. VPN
6. LAN/ WAN/ MAN
7. Data structures and communication
8. POLNET

## **Computer Security**

1. Cyber security/ network security including
  - a. Firewall
  - b. IDS
  - c. IPS
2. Cyber Crime
3. Cyber Forensics
4. Morphing
5. Virus
  - a. Types
  - b. Functionalities
  - c. Signature
  - d. Scanners and cleaners
6. Security Policy
7. Encryption technologies
  - a. PKI
  - b. 128 Bit
  - c. SSL

## **Miscellaneous**

- a. Scanning technology
  - b. OCR / OMR
  - c. Speech / voice recognition
  - d. GIS
  - e. Robotics
  - f. Artificial Intelligence
  - g. Biometrics
  - h. Bioinformatics
  - i. Blue Tooth Technology
  - j. IT Act 2000
  - k. IT Initiatives in Police
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## **Event II**

Office Automation (Part –I)

*Time: 1 hours*

**Max Marks: 100**

### **Topics**

#### **MS OFFICE (latest version)**

- a. Text Entry in MS Word (Speed and accuracy will be tested)
  - b. Preparation of 5 pages of presentation material on PowerPoint
  - c. Creation of a table in MS Excel and preparation of a graph (Pie Chart, Histogram, Bar Chart, Line Chart etc.), pivot table and print
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## **Event III**

Office Automation (Part –II)

*Time: 1 hours*

**Max Marks: 100**

**(This event has two options. Only one option may be selected as per convenience)**

### **Option 1**

Develop an application using MS Access as the back-end database. Visual Basic (latest version) to be used as the front-end and development tool. The requirement specification will be provided at the time of test. Application should include at least one data entry screen and at least one data retrieval facility (query and report).

### ***Option 2***

#### ***CCIS (Crime Criminal Information System)***

1. Form entries IIF (Speed and accuracy)
  2. Queries and reports
  3. Using CCIS database generate prescribed reports using MS SQL
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