



SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY

THIRUVANANTHAPURAM—695 011, INDIA.

(An Institute of National Importance under Govt. of India)

Phone—(91)0471—2443152 Fax—(91)0471—2446433, 2550728

Email-sct@sctimst.ac.in Web site—www.sctimst.ac.in

ROLL NUMBER

WRITTEN TEST FOR THE POST OF ASSISTANT SECURITY AND SAFETY OFFICER - A

DATE: 27/03/2023

TIME: 10 To 11.30

DURATION: 90 MINUTES

Total Marks: 100

INSTRUCTIONS TO THE CANDIDATES

1. Write your Roll Number on the top of the Question Booklet and in the answer sheet.
2. Each question carries 1 mark.
3. There will not be any Negative Marking.
4. Darken only the bubble corresponding to the most appropriate answer.
5. Over-writing is not permitted.
6. Candidate should sign in the question paper and answer sheet.
7. No clarifications will be given.
8. Candidate should hand over the answer sheet to the invigilator before leaving the examination hall.

Signature of the Candidate

Reepa Sreedhar
27/3/2023

MCQ TEST – Assistant Security and Safety Officer

- 1). Maintenance of Portable fire extinguishers is dealt by which Indian standard.
(a) IS : 1289 (b) IS : 2190 (c) IS : 2284 (d) IS : 3844
- 2). Fire Triangle consists of following elements.
(a) Heat, Oxygen, fuel (b) Fuel, chemical reaction, oxygen
(c) Heat, fuel, combustible material (d) Oxygen, temperature, Energy.
- 3). Which code covers for provisions relating to fire protection of buildings including portable & fixed firefighting arrangements.
(a) Kerala fire service act 1962 (b) State fire act 2018
(c) Fire services act 1989 (d) NBC 2016
- 4). An arrangement of firefighting within the building from terrace tank to landing valve system which is known as
(a) Up comer (b) Side riser (c) Down comer (d) fire pump
- 5). Fire load density is usually calculated as fire load divided by
(a) Building area (b) floor area (c) floor volume
(d) calorific value of substance
- 6). High rise building is termed as
(a) > 10 mtrs. (b) > 8 mtrs. (c) >15 mtrs. (d) >12 mtrs.
- 7). The hospital which comes under classification of buildings as per occupancy
(a) Residential (b) Educational (c) Business (d) Institutional
- 8). Class D fires involves with
(a) Liquids (b) Gases (c) Solid combustible material (d) active metals
- 9). Which type of fire extinguishers are suitable for electrical fires?
(a) AFFF (b) Dry powder (c) Dry powder & CO₂ (d) Water based
- 10). BLEVE is termed in fire hazards
(a) Burst latent extra vapour energy (b) Burnt liquid ethylene vapour emission
(c) Boiling liquid expanding vapour explosion (d) Blue liquid expansion variable exit.
- 11). The expellant in CO₂ fire extinguisher change its state through which of the following the process?
(a) contraction (b) expansion (c) sublimation (d) vaporization.
- 12). The lowest temperature at which a liquid will generate enough vapours to form a flammable mixture in the air is called as:
(a) Fire point (b) Flash point (c) fire burst (d) fire vapour
- 13). When solid flammable substance has been smoldering in a closed room with insufficient air supply, and when it gets reacted with suddenly available air supply given, the whole effect is termed as:
(a) Blew up (b) Flash over (c) fire wind (d) explosion
- 14). Fire Hydrant system is generally initially tested at a pressure of:
(a) 7 kgf/m² (b) 15 kgf/m² (c) 20 kgf/m² (d) 3.5 kgf/m²

Rupa Sreedhar
27/3/2023

- 15). 1 gallon of water is equal to:
(a) 2.5 ltrs (b) 3.7 ltrs (c) 3.5 ltrs (d) 2.8 ltrs
- 16). Regarding self-contained breathing apparatus (SCBA) which is used in firefighting, when a warning whistle is sounded continuously, time left with wearer is
(a) 20 min (b) 5 min (c) 10 min (d) 15 min
- 17). The purpose of fire mock drill is conducted to
(a) train staff (b) review readiness (c) train visitors (d) fulfill routine activity.
- 18). Which is the commonly available major firefighting arrangement in Hospitals?
(a) 4.5 kg Co2 fire extinguisher (b) 50 Ltrs AFFF system (c) Fire Hydrant
(d) 6 Kg ABC
- 19). An area within the building for temporary use during egress is known as:
(a) Lift lobby (b) Refuge area (c) public way (d) ramp path
- 20). The removal of burning material from the fire triangle is:
(a) smothering (b) starvation (c) isolation (d) stagnation
- 21). The acronym PASS is applicable with respect to operation of fire extinguisher
(a) Plug and support to see (b) pull aim squeeze and sweep
(c) pass at seed of fire and sweep (d) prevent at seed and sweep.
- 22). The different types of vigilance functions are categorized as:
(a) Preventive, punitive, prominent (b) participative, positive, profound
(c) punitive, preventive, participative (d) punitive, pre-defined, participative
- 23). The main aim of vigilance in hospital environment is:
(a) to maintain discipline (b) to look after theft and robberies
(c) to curb corruption and malpractices (d) to prevent sexual harassment
- 24). In India, the apex body to look after vigilance activities is done by
(a) CVC (b) CBI (c) IB (d) ED
- 25). Annual property returns of employees is an activity under which perspective of vigilance function?
(a) Preventive (b) punitive (c) participative (d) prominent
- 26). The presenting officer and inquiry officer for departmental inquiry are nominated by:
(a) Charged officer (b) Disciplinary authority (c) Administrative Officer
(d) Superintendent
- 27). Which fire extinguisher is suitable for live electrical fire?
a) CO2 b) Liquefied chemical
c) Water filled d) halon
- 28). In recent years, there has been tremendous increase of security establishments/agencies in India and are regulated/guided by an act
(a) PSARA 2008 (b) PSARA 2005 (c) PSARO 2000 (d) PSA act 2002
- 29). A CISO is the person in charge of the entire information security operations of an organization. What is the full form of CISO?

Rupa Sreedhar
27/3/2023

- (a) Chief information scientific Officer (b) Chief information security officer
(c) Chief investigation special Officer (d) Cyber intelligence server Officer.
- 30). The main functions of CERT-IN
(a) forecast and alert cyber security incidents (b) forecast and alert physical security
(c) emergency preparedness to natural disaster (d) to act smartly in fire prevention.
- 31). In CCTV surveillance, the camera which can be moved to left or right and up/down is a feature of:
(a) Dome camera (b) Bullet camera (c) PTZ camera (d) C-mount camera
- 32). A complete reconnaissance, study and analysis of a facilities / hospital property / transported material / route of transport and operations, which takes note of any and all physical security hazards and deficiencies is:
(a) Safety Survey (b) Security Survey (c) Security audit
(d) Fire & Safety audit
- 33). PIDS are systems used in an external environment to detect the presence of an intruder. What is the full form of PIDS?
(a) Positive interact defense system (b) Perimeter interact defense system
(c) Perimeter intrusion detection system (d) Permanent interact detection system.
- 34). In physical security system, the following is considered as anti-intrusion device
(a) HHMD (b) Boom barrier (c) BP jacket (d) DFMD
- 35). The Hospital or institution contingency plan/off-site emergency is approved by
(a) District Collectorate (b) District Sainik board
(c) District Police H.Q (d) District Municipal H.Q
- 36). Sabotage is a security threat which is related to
(a) infrastructure (b) Information (c) people (d) Material
- 37). _____ type of gate offer better security and better manpower utilization as they allow one person to pass at a time.
(a) Sliding gate (b) swing gate (c) Turnstile gate (4) Material gate
- 38). Automatic identification of living persons using their enduring physical or behavioral characteristics is referred as
(a) Face recognizers (b) Biometric access (c) voice recognizers (d) finger print sensor access
- 39). **UVSS** and **ANPR** are applicable to security checks of
(a) Vehicles (b) Men (c) Material & equipment (d) Pedestrian
- 40). The espionage agent who may spontaneously decide to sell his employers secrets for money/revenge can be
(a) Subversive political party (b) disgruntled employee
(c) professional agency (d) shop keeper
- 41). All contractor employee who are engaged to carryout civil or other works shall be asked by security department to produce
(a) Police verification certificate (b) character certificate
(c) Reference certificate (d) Work experience certificate

Rupa Sreedhar
27/3/2023

- 42). Keys which are designated as classified to be maintained in
 (a) seal & sign, separate register and issue to authorized person
 (b) seal & sign, separate register and issue to Head of the Department
 (c) seal and issue to authorized person
 (d) Separate register and issued to section-in-charge.
- 43). A Class F fire is caused by burning:
 a) Flammable liquids b) Electrical equipment
 c) Flammable gases d) Cooking oil or fat
- 44). In _____ surveillance, the surveille does not know the he is being followed.
 (a) Open (b) indirect (c) shadowing (d) semi-open
- 45). Collection of information from open source or discreet sources, its analysis, and drawing a logical conclusion on the security matters of the unit is
 (a) Vigilance (b) Intelligence (c) surveillance (d) spying
- 46). In covert intelligence, the staff deployed should have preferable knowledge in human psychology, aptitude, topography of the unit and _____.
 (a) Local language (b) fair look (c) Office customs (d) dress code
- 47). Most often non-factory manufactured bombs are commonly termed as IED which comprised of casing explosive and detonator, switch and power supply. Then IED stands for
 (a) internal explosive detonator (b) integrated explosive device
 (c) interim explosive detector (d) Improvised explosive device
- 48). A document that contains information on the potential hazards (health, fire, reactivity and environmental) and how to work safely with the chemical product is called:
 (a) Physical and chemical data document (b) Material safety Data sheet
 (c) Chemical storage and reaction sheet
 (d) Properties of hazardous chemical document
- 49). On-site coordinator of all the activities of emergency plan including evacuation of the hospital/institute is the:
 (a) Administrative/HR Officer (b) Vigilance Officer
 (c) Security Officer (d) Radiation Safety Officer
- 50). The circular fencing which is erected using coils or barbed wire on perimeter wall is called as
 (a) Barbed wire fence (b) concertina coil fence (c) corrugated coil fence
 (d) Wire link fence
- 51). An offence for which, a police officer may in accordance with first schedule of Cr.PC or under any other law for the time being in force, arrest without warrant is termed as
 (a) cognizable (b) non cognizable (c) categorized (d) Custody
- 52). The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act which extends to the whole of India was passed in:
 (a) 2014 (b) 2013 (c) 2015 (d) 2017
- 53). An action which involves helping an enemy state can be in the form of communicating a sketch, plan, a model or official codes/passwords are strongly condemned in an act known as India's anti-espionage act. Identify the act.
 (a) OSA 1935 (b) OSA 1923 (c) OSA 1921 (d) OSA 1928

Rupa Sreedhar
 27/3/2023

- 54). As per Official secrets act, any place belonging to or used for the purpose of government which is for the time being declared by the central govt. by notification in the official gazette, to be a "prohibited place" needs to have the notification affixed in languages _____
 (a) English & Vernacular of locality (b) English & Hindi (c) English only
 (d) Hindi only
- 55). _____ are established in various regions of India which allows foreigners to register and avail visa and immigration related services. Recently it has been updated into online mode. Under the new scheme a foreign citizen is no longer required to appear in person.
 (a) Passport seva Office (b) District Magistrate (c) Customs Office (d) FRRO
- 56). Quantity of radiation received by human body is measured with a device which is commonly worn on chest while working in radiation area.
 (a) Thermo Luminescent Dosimeter (b) Techno Light Dosimeter
 (c) Personal Dosimeter (d) Radiation dosimeter.
- 57). An Officer of security unit on completion of an enquiry entrusted to him should submit his report prepared to his Head of the Department and the report is to be classified as
 (a) Restricted (b) Confidential (c) Secret (d) most urgent
- 58). Under plant/institution protection scheme, in case of handling of strike/lock outs, at executive phase of emergency, the loyal staff supplied by other departments are safely guarded by
 (a) HRD (b) Fire (c) Police (d) Administration
- 59). A pump of small capacity which comes into operation automatically with drop in static pressure and also when the preset pressure is reached again in fire hydrant system is
 (a) Fire pump (b) terrace pump (c) Jockey pump (d) standby pump
- 60). What should be the allowable loss in % of weight of gas expellant/cartridge-based fire extinguishers?
 (a) <10% (b) >15% (c) >10% (d) <15%
- 61). For high rise hospital buildings/institutions, the fire hydrant provided with sprinkled system should have a pump discharge capacity as per fire safety norms:
 (a) 2000 ltrs/min (b) 2280 ltrs/min (c) 1800 ltrs/min (d) 3200 ltrs/min
- 62). External security audit for vital and security sensitive organizations as enlisted by central government is usually carried out EVERY 2 years by
 (a) DG, State Police services (b) Intelligence Bureau (c) CBI (d) NSG
- 63). International standard ISO 27001 adopts PDCA model which is applied to all structures of information security management system (ISMS). Then PDCA stands for
 (a) Prevent Damage Control Action (b) Pull Dial Close Away (c) Plan Do Check Act (d) Push Do challenge & Action
- 64). A security management of hospital/institution involves security and protection of assets of the organization collectively as:

Reepa Sreedhar
 27/3/2023

- (a) Physical, HR and IT assets (b) Staff, equipment and perimeter
(c) Medical Stores, Patients, Technicians
(d) Computers, Equipment, Patients & doctors.
- 65). What is methodical approach process for establishment and improvement of a Physical Protection System (PPS) to an industry/Hospital and vital installations?
(a) Conduct, Plan and Progress. (b) Plan, Survey and Define
(c) Define, checks and workout (d) Define, Design and Evaluate
- 66). The effective range of 5.56 mm Indian small arm system gas operated assault rifle is:
(a) 800mts (b) 900 mtrs (c) 200 mtrs (d) 400mtrs
- 67). Which one of the following is the process of encoding a message or information in such a way that only authorized persons can access it, which does not itself prevent interference, but denies the intelligible content.
(a) Enabling (b) Encryption (c) Emerging (d) Engraving
- 68). Sabotage, Espionage and pilferage are such type of security threats that declines the operation capability of an institution or harms the general public. These types of threat are called as:
(a) Natural (b) Man made (c) insiders (d) outsiders
- 69). Evidence that relates to a series of facts other than the particular fact sought to be proved
a) Circumstantial evidence b) Similar fact evidence
c) Documentary evidence d) Scientific evidence
- 70). To commemorate the memory of brave firemen who lost their lives during dock explosion in 1944 of _____ day is remembered as Fire Day and expands over a week. The day is
(a) 20 May (b) 04 March (c) 14 April (d) 06 June
- 71). According to Indian Meteorological Department (IMD), one of the following is classified as a super cyclone when the wind speed blows at:
(a) above 150 kms (b) above 180 kms (c) above 220 kms (d) above 300 kms
- 72). Which one of the following is not a natural disaster?
(a) Tsunami (b) volcano eruption (c) earth quake (d) Gas blow-out
- 73). The National disaster response force (NDRF) battalion's regional headquarters for Kerala, Tamil Nadu and A& N islands is located at _____
(a) Chennai (b) Kochi (c) Arakkonam (d) Port Blair
- 74). Which of the following is NOT a phase of emergency management?
(a) Mitigation (b) Recovery (c) Response (d) Resource
- 75). _____ are conical shaped objects used to measure wind speed and direction. They are coloured in red and white. They are also used to indicate any risk of gaseous leakage which is envisaged as potential danger.
(a) Anemometer (b) Windsocks (b) Wind blower (d) Wind compass
- 76). An Item/part of CCTV system, the intended main function of which is to compress images recorded from the cameras into a particular image compression format and store them is:
(a) Pen drive (b) DVR (c) DVD (d) Camcra

Rupa Sreedhar
27/3/2023

- 77). Which rating is treated as best for CCTV camera according to "International protection rating"?
- (a) IP - 63 (b) IP - 64 (c) IP - 65 (d) IP - 66
- 78). During a bomb alert, a CCTV operator can assist the army/bomb disposal squad by:
- (a) Monitoring the surroundings area to warn of potential attacks
 (b) Turning off the camera as it is a sensitive situation
 (c) Turning off the recorders to prevent a court appearance
 (d) Monitoring usual wear patterns away from the incident
- 79). Which type of location is typically classified as perimeter security location when designing a security system.
- (a) Driveways (b) basements (c) Doors & Windows (d) Parking zone
- 80). Duplex multiplexers in CCTV can:
- (a) Provides screen splits and user selectable images
 (b) Not provide screen splits and user selectable images
 (c) Display only two screen images while in record mode
 (d) Can display user selectable images, but no screen splits
- 81). Which of the following is NOT part of the six core steps in containing evidence?
- a) Secure b) Log c) Discard d) Preserve
- 82). Screening of baggage/cargo, verifying anti-hijack equipment and preventing entry of hazardous material into strategic installation is done by:
- (a) DFMD (b) XBIS (c) HHMD (d) Turnstile gating
- 83). A trained animal that uses its senses to detect substances such as explosives, illegal drugs, wild life scat, currency, blood and contraband electronics etc:
- (a) Monkey (b) sniffer dog (c) Ape (d) Dolphin
- 84). The main objective of "On-site emergency plan" is emergency planning is to ensure
- (a) that only selected staff/technicians know the Standard Operating Procedures of the institute
 (b) readiness of Security and administrative staff of organization.
 (c) that everyone knows about the hazards and risks of installation
 (d) alertness of doctors and nursing staff in hospital
- 85). In security systems, a system function intended to slow adversaries down, to lengthen the time required before they can complete their mission i.e theft or sabotage is termed as
- (a) Delay (b) Deterrent (c) Deny (d) Defeat
- 86). Regarding the mitigation of a crisis scenario developed as due to unforeseen circumstances and had to be dealt promptly in a professional manner, the crisis process can be divided into which one of the following four phases?
- (a) Reflex, relaxation, response and recovery
 (b) Ready, re-arrange, response and rest
 (c) Rush, ready, re-imitate and relax
 (d) Revamp, rearrange, ratify and review
- 87). Common principle and thumb rule for safety and security assignments is

Rupa Sreedhar
 27/3/2023

- (a) Right attitude for good person (b) Good job for Right person
 (c) Right person at Right place for Right purpose
 (d) Right information for right person
- 88). Material/equipment/ stores etc which are sent to outside the premises, will be returned back to organization though the document known as:
 (a) Visitor pass (b) returnable gate pass
 (c) non-returnable gate pass (d) store ledger
- 89). During a War, to minimize the effects of enemy action on men and material of the country, the coalition of local self-bodies, voluntary agencies and government etc is defined as
 (a) Volunteer organization (b) Civil Defence (c) State services
 (d) Unique force
- 90). Which security light technique is applied, when the intention is to disable visual capabilities of the intruder?
 (a) Continuous (b) Trip (c) Controlled (d) Glare
- 91). What is the duration within which all cyber security related incidents by any service provider, intermediary data center, body corporate and govt. organizations need to be reported to CERT-IN as per latest directives?
 (a) Within 4 hours (b) Within 6 hours (c) Within 12 hours (d) Within 24 hours
- 92). Which type of VISA is to be in possession by foreigners who visit India for hospitalization purpose.
 (a) Tourist visa (b) Education visa (c) Medical visa (d) Business visa
- 93). Which section of official language act 1963 deals with authorized Hindi translation of state acts in certain cases.
 (a) Section 2 (b) Section 6 (c) Section 4 (d) Section 7
- 94). The Officer designated by the public authorities in all administrative units or offices under it to provide information to the citizens requesting for information under RTI act 2005.
 (a) Appellate authority (b) CIC (c) PIO (d) CAO
- 95). Whoever commits hacking activities i.e destruction or alteration of any information residing in computer that is tangible/in tangible assets of computer resource shall be punished with ____ as per IT act 2000
 (a) Imprisonment with 2 yrs or with fine upto 2 lakhs or with both
 (b) Imprisonment with 3 yrs or with fine upto 3 lakhs
 (c) Imprisonment with 3 yrs or with fine upto 2 lakhs or with both
 (d) Imprisonment with 2 yrs or with fine upto 2 lakhs
- 96). The essential PPE to be worn by a person when working at elevated height is
 (a) Helmet, full body harness (b) Helmet, Safety shoes
 (c) Safety goggles, Safety Belt (d) fireman suit and shoes
- 97). The perimeter barrier is in the form of a wall with 'Y' shaped hang over of barbed wire coil with cumulative height of ____
 (a) 10 ft (b) 12 ft (c) 15 ft (d) 18ft

Rupa Seedhar
 27/3/2023

- 98). Within 25ft of perimeter barrier, any type of obstruction is not allowed and that area strip of land is generally called as
(a) No Man's land (b) Sound land (c) No obstruction
(d) Land without grass
- 99). To check the alertness of the security personnel who have tendency to relax on duty because of repetitive nature of duties.etc, the Security Officer carried out _____ test to review the procedures
(a) Commitment (b) Surprise (c) Vulnerability (d) Scrutiny
- 100). In order to avoid any damages to physical security measures like walls, fences, lighting, doors, locking devices and alarms.etc, the common traditional method of security system is
(a) Patrolling (b) Lighting (c) Watch tower (d) Sounding

Rupa Sreedhar
27/3/2023

MCQ KEY – SECURITY OFFICER

01 - b	21 - b	41 - a	61 - b	81 - c
02 - a	22 - c	42 - a	62 - b	82 - b
03 - d	23 - c	43 - d	63 - a	83 - b
04 - c	24 - a	44 - c	64 - a	84 - c
05 - b	25 - a	45 - b	65 - d	85 - a
06 - c	26 - b	46 - a	66 - d	86 - a
07 - d	27 - a	47 - d	67 - b	87 - c
08 - d	28 - b	48 - b	68 - b	88 - b
09 - c	29 - b	49 - c	69 - a	89 - b
10 - c	30 - a	50 - b	70 - c	90 - d
11 - c	31 - c	51 - a	71 - c	91 - b
12 - b	32 - b	52 - b	72 - d	92 - c
13 - b	33 - c	53 - b	73 - c	93 - b
14 - a	34 - b	54 - a	74 - d	94 - c
15 - b	35 - a	55 - d	75 - b	95 - c
16 - c	36 - a	56 - a	76 - b	96 - a
17 - b	37 - c	57 - b	77 - d	97 - b
18 - c	38 - b	58 - c	78 - a	98 - a
19 - b	39 - a	59 - c	79 - c	99 - c
20 - b	40 - b	60 - a	80 - a	100 - a

Rupa Sreedhar
27/3/2023.