

INDIAN INSTITUTE OF TECHNOLOGY ROPAR
WRITTEN EXAMINATION
SECURITY OFFICER

Date of the Examination: 30/09/2023

PART - A

Maximum Marks: 20

Time: 35 Minutes

Name of Candidate: _____

Roll No.: _____

INSTRUCTIONS TO CANDIDATES

1. This question paper (Part – A) has 20 questions. Each question carries one mark. There are four choices for answer (A, B, C, D) to each question. Choose the correct answer (one only) for each question and mark it on the Optical Response Sheet (ORS).
2. Read the instructions given in the ORS sheet carefully.
3. Use a Black/Blue ball point pen only to fill the ORS Sheet.
4. The candidate should check that the booklet does not have any unprinted or torn or missing pages or questions etc. If so, get it replaced with another question paper.
5. While marking your answer on the ORS Sheet fully darken the circle.
6. One (1) mark will be awarded for each correct answer and each incorrect answer and unanswered questions will not attract marks. There is no negative marking.
7. Return the ORS Sheet and the question paper to the invigilator after the examination is over.
8. Mobile, Electronic Watch and other Electronic Gadgets are prohibited in the examination.
9. Use of Unfair Means in Examination will lead to cancellation of candidature.

Signature of the candidate: _____

<Good Luck>

Questions:

Q1. From the given options, identify the segment in the sentence which contains the grammatical error.

Every employee of the company were given a two bedroom flat as Diwali bonus.

- A. As Diwali bonus.
- B. a two bedroom flat
- C. every employee
- D. were given

Q2. In this question, a part of the sentence is in bold. Below are the given alternatives to the bold part. Please improve the sentence using the right alternative.

Every person **was not fitted for** everything.

- A. was not fit at
- B. No Improvement required
- C. is not fit at
- D. is not fit for

Q3. The following question has been given in the Active/Passive voice. From the given options, please choose the one which best expresses the given sentence in Passive/Active voice.

The lightning caused a serious forest fire and damaged many nearby houses.

- A. A serious forest fire has been caused by lightning and many nearby houses have been damaged.
- B. A serious forest fire was caused by lightning and many houses are damaged.
- C. A serious forest fire had been caused by lightning and many nearby houses had been damaged.
- D. A serious forest fire was caused by lightning and many nearby houses were damaged.

Q4. In this question the sentence has been given in Direct/Indirect speech. Out of the four alternative suggested, select the one which expresses the same sentence in indirect/direct speech.

Rakesh says, "Can you prepare a cup of tea for me, Sunita?"

- A. Rakesh tells Sunita to prepare a cup of tea for him.
- B. Rakesh tells Sunita if she could prepare a cup of tea for him.
- C. Rakesh asked Sunita if she can prepare a cup of tea for him.
- D. Rakesh asks Sunita if she can prepare a cup of tea for him.

Q5. Choose the correct alternative out of the four options and fill in the blank.

The assistant in the library picked up the books from the tables and put _____ back on the shelves.

- A. they
- B. its
- C. them
- D. it

Q6. Choose the correct antonym for the bolded word?

Nefarious

- A. Evil
- B. Pleasing
- C. Rotten
- D. Infernal

Q7. Which dynasty gave India its famous temple of Khajuraho?

- A. Pawar
- B. Mauryas
- C. Chandelas
- D. Holkars

Q8. The Earth completes one rotation on its axis in?

- A. 22 h 30 min
- B. 23 h 56 min 4.9 sec
- C. 24 h
- D. 23 h 10 min 2 sec

Q9. Which part of the Indian constitution deals with “Fundamental Rights”?

- A. Part I
- B. Part II
- C. Part III
- D. Part IV

Q10. On the basis of which of the following indicator, the lifestyle standard of person can be identified?

- A. Gross Domestic Income
- B. Net National Income
- C. Per Capita Income
- D. Disposable Personal Income

Q11. India has imported Date Palm tree from which country, as part of sapling planting event under G-20 Summit?

- A. Saudi Arabia
- B. UAE
- C. Oman
- D. Bahrain

Q12. Who won the Gold medal in the shooting (Women's 10m Air Pistol Individual) event at Asian Games 2023.

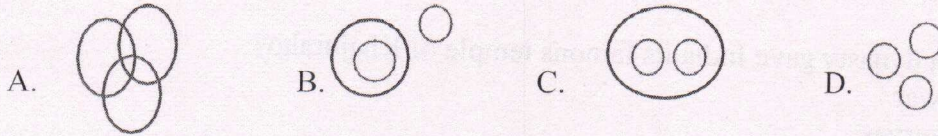
- A. Kishmala Talat
- B. Esha Singh
- C. Palak
- D. None of them

Q13. Bharatskills Forum was launched under which Union Ministry?

- A. Ministry of Education
- B. Ministry of Skill Development and Entrepreneurship
- C. Ministry of MSME
- D. Ministry of Commerce and Industry

Q14. From the following three elements given, you need to select the figure which will best represent the relationship amongst the three elements.

Boys, Students, Athletes



Q15. Read the paragraph carefully and determine one main point the author is trying to make.

A few states in this country are considering legislation that would prohibit schools from using calculators before the sixth grade. Other states take a different position. Some states are insisting on the purchase of graphing calculators for every student in middle school.

This paragraph best supports the statement that in this country

- A. calculators are frequently a detriment to learning math
- B. there are at least two opinions about the use of calculators in schools
- C. state legislators are more involved in education than ever before
- D. the price of graphing calculators is less when schools buy in bulk.

Q16. Study the following letter-number series and then answer the question

H P 9 G A M T 4 B K R 7 N D Y J 3 S C E Q 8

If the first half of the above sequence is written in the reverse order, which of the following will be the ninth letter/number to the right of the sixteenth letter/number from your right?

- A. Q
- B. 3
- C. Y
- D. J

Q17. What are the next two terms in the following series?

61, 57, 50, 61, 43, 36, 61

- A. 29, 61
- B. 27, 20
- C. 31, 61
- D. 29, 22

Q18. Two stations R and S are 400 km apart from each other. A train leaves from R to S and simultaneously another train leaves from S to R. Both trains meet after 10 hours. If the speed of the first train is 4 km/hr more than the second train, then what is the speed of the slower train?

- A. 16 km/hr
- B. 26 km/hr
- C. 18 km/hr
- D. 22 km/hr

Q19. Due to an increase of 30% in the price of eggs, 3 eggs less are available for Rs 9.10. The present rate per egg is

- A. 91 paise
- B. 78 paise
- C. 48 paise
- D. 84 paise

Q20. Find the compound interest on Rs 10,000 in two years @ 4% per annum, the interest being compounded half yearly.

- A. 637.55
- B. 824.32
- C. 800
- D. 724.67

INDIAN INSTITUTE OF TECHNOLOGY ROPAR

WRITTEN EXAMINATION

Security Officer (Subjective Questions)

Date of the Examination: 30/09/2023

PART - B

Maximum Marks: 30

Time: 45 Minutes

Name of Candidate: _____

Roll No.: _____

INSTRUCTIONS TO CANDIDATES

1. This question paper (Part – B) has 30 questions. Each question carries one mark. There are four choices for answer (A, B, C, D) to each question. Choose the correct answer (one only) for each question and mark it on the Optical Response Sheet (ORS).
2. Read the instructions given in the ORS sheet carefully.
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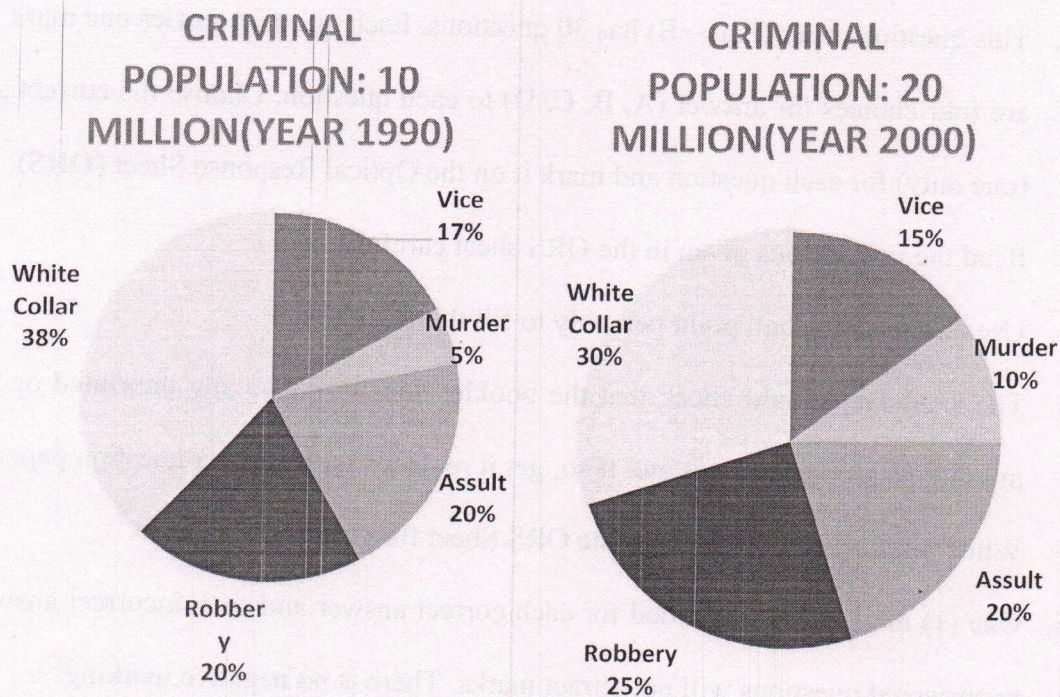
Signature of the candidate: _____

<Good Luck>

Questions

- Q [1 -4] Please study the following graphs and answer the succeeding questions from 1 to 4.

**DISTRIBUTION OF CRIMINAL ACTIVITY BY CATEGORY OF CRIME
FOR COUNTRY X IN 1990 AND PROJECTED FOR 2000**



- Q 1. What is the projected number of white-collar criminals in 2000?
- A. 1 million
B. 3.8 million
C. 6 million
D. 10 million
- Q 2. The ratio of the number of robbers in 1990 to the number of projected robbers in 2000 is:
- A. $\frac{2}{5}$
B. $\frac{3}{5}$
C. 1
D. $\frac{3}{2}$

- Q 3. From 1990 to 2000, there is a projected decrease in the number of criminals for which of the following categories?
- I. Vice
 - II. Assault
 - III. White Collar
- A. None
 - B. I only
 - C. II only
 - D. I, II and III
- Q 4. What is the approximate projected percent increase between 1990 and 2000 in the number of criminals involved in vice?
- A. 25 %
 - B. 85%
 - C. 60%
 - D. 75%
- Q 5. The projected number of Robbers in 2000 will exceed the number of white-collar criminals in 1990 by: -
- A. 1.2 million
 - B. 2.3 million
 - C. 5.8 million
 - D. 7.2 million
- Q 6. Which of the following articles of the Constitution of India states that access to public places cannot be denied?
- A. Article 17
 - B. Article 16
 - C. Article 15
 - D. Article 14
- Q 7. Which of the following pump is mainly used to maintain the pressure in the fire protection piping system?
- A. Main fire pump
 - B. Electric fire hydrant pump
 - C. Diesel pump
 - D. Jockey pump
- Q 8. By which of the following elements, the fire triangle is represented?
- A. Chemical extinguishing agent, fuel, water
 - B. Chemical extinguishing agent, heat, light
 - C. Chemical powder, fuel, air
 - D. Fuel, heat, oxygen

- Q 9. Pick up the right answer: -
- A. Anti-sabotage check is carried out before the arrival of the principal.
 - B. Anti-sabotage check is carried out during the presence of the principal
 - C. Anti-sabotage check is carried out after the departure of the principal
 - D. Anti-sabotage check can be carried out at any time.
- Q 10 The security outer ring consists of: -
- A. Fast lanes, Cameras, Access Controlled Doors.
 - B. Boundary Wall, Access Controlled Doors, Fire Exit Doors.
 - C. Boom Barriers, Access Controlled Doors, Boundary Wall.
 - D. Gates, Boundary Wall, Boom Barriers.
- Q 11. In which year the Private Security Agencies (Regulation) Act was passed?
- A. 2011
 - B. 2005
 - C. 1990
 - D. 2000
- Q 12 Which of the following is not a part of Fire Detection Panel and Warning System?
- A. Heat Detectors
 - B. Air Detectors
 - C. Smoke Detectors
 - D. Flame Detectors
- Q 13 What is a mantrap?
- A. A trusted security domain
 - B. A mechanism for logical accessing control
 - C. A double-door room used for physical access control
 - D. A device for fire suppression
- Q 14 Which of the following is not a control category in a physical security program?
- A. Deterrence and delaying
 - B. Response and detection
 - C. Assessment and detection
 - D. Delaying and lighting

- Q 15 Which of the following is the best choice in choosing security guard for a physical access control mechanism?
- A. When discriminating judgment is required
 - B. When intrusion detection is needed
 - C. When the allotted security budget is low
 - D. When access controls are in place
- Q 16 Which of the following is not considered as a delaying mechanism?
- A. Locks.
 - B. Defense-in-depth measures
 - C. Warning signs
 - D. Access controls
- Q 17 The level of protection depends on what?
- A. The number of employees
 - B. The acceptable risk level
 - C. The amount of data
 - D. The amount of company balance
- Q 18 What is the meaning of CPTED?
- A. Crime Prevention Through Environmental Design
 - B. Crime Protection Through Environment Details
 - C. Child and Parent Teaching Through Electronic Devices
 - D. Call and Protect Taking Evasive Deterrence
- Q 19 The following documents will be maintained at the job site near the controller such that they are easily available as per NBC 2016: -
- A. Wiring diagram,
 - B. Lift license copy,
 - C. Log card,
 - D. All of the above
- Q 20 Educational Buildings are classified under which group: -
- A. Group A
 - B. Group B
 - C. Group C
 - D. Group D
- Q 21 Every Room in the educational building having a seating capacity of over 45 persons shall have at least the following number of doorways: -
- A. Two
 - B. Three
 - C. One
 - D. One per ten people

- Q 22 The Training imparted to a new employee to induct him into new social setting of his work is called:
- A. Orientation training B. Job training
C. Corrective training D. Promotion training
- Q 23 Which of these is an on -the -job training method where the trainee is placed on various jobs across different functions in the organization?
- A. Job Instruction Training B. Coaching
C. Committee Assignment D. Job Rotation
- Q 24 Are foreign students studying in India required to visit the Police Station?
- A. Weekly B. Monthly
C. Not required to visit D. As per Indian VISA
- Q 25 Does COPTA apply to foreign students studying in India?
- A. Partially applicable
B. Fully applicable
C. As per Indian VISA
D. As per passport of their native country
- Q 26 Right to life and personal liberty is a Fundamental Right dealt under:
- A. Article 32 B. Article 21. C. Article 14. D. Article 19
- Q 27 Punishment for murder is dealt under?
- A. Section 299 of the IPC. B. Section 300 of the IPC
C. Section 302 of the IPC. D. Section 309 of the IPC
- Q 28 Total Strength of Security Guard is 129. Considering there are 36 Security Posts to be manned 24x7 by each Security Guard. Calculate the no. of Security Guards available as reliever in each shift.
- A. 6 B. 7 C. 8 D. 9
- Q 29 Murder is defined under?
- A. Section 299 of the IPC B. Section 300 of the IPC
C. Section 302 of the IPC D. Section 309 of the IPC
- Q 30. The shape of the Give Way sign in the traffic signal is: -
- A. Triangle B. Right Facing Triangle
C. Inverted Triangle D. Left Facing Triangle.