

# Exam 312-85 Study Solutions | Exam 312-85 Quick Prep

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**12<sup>th</sup> STD** **PUBLIC EXAM - MARCH 2023** **Part - III** **Mathematics** (with answers) **Maximum Marks : 90**

**Instructions :**

- (1) Check the question paper for fairness of printing. If there is any lack of fairness, inform the Hall Supervisor immediately.
- (2) Use **Blue or Black** ink to write and underline and pencil to draw diagrams.

**Part - I**

**Note :** (i) All questions are **Compulsory**.  
(ii) Choose the most appropriate answer from the given **four** alternatives and write the option code and the corresponding answer. **20 × 1 = 20**

1. A square matrix A of order n has inverse if and only if :  
(a)  $p(A) > n$  (b)  $p(A) = n$   
(c)  $p(A) \neq n$  (d)  $p(A) < n$
2. Distance from the origin to the plane  $3x - 6y + 2z + 7 = 0$  is  
(a) 2 (b) 0 (c) 3 (d) 1
3. If  $3 \cos^{-1} x = \cos^{-1} (4x^2 - 3x)$ ,  
(a)  $x \in \left(\frac{1}{2}, 1\right)$  (b)  $x \in \left[\frac{1}{2}, 1\right]$   
(c)  $x \in (-\infty, 1)$  (d)  $x \in \left[\frac{1}{2}, \infty\right)$
4. The general solution of the differential equation  $\frac{dy}{dx} = \frac{y}{x}$  is :  
(a)  $y = kx$  (b)  $xy = k$   
(c)  $\log y = kx$  (d)  $y = k \log x$
5. The number of normals that can be drawn from a point to the parabola  $y^2 = 4ax$  is :  
(a) 3 (b) 2 (c) 0 (d) 1
6. If  $\vec{a}$  and  $\vec{b}$  are parallel vectors then  $[\vec{a}, \vec{c}, \vec{b}]$  is equal to :  
(a) 1 (b) 2 (c) 0 (d) -1
7. The number of real numbers in  $[0, 2\pi]$  satisfying  $\sin^4 x - 2 \sin^2 x + 1$  is :  
(a) 1 (b) 2 (c)  $\infty$  (d) 4
8. Suppose that X takes on one of the values 0, 1, 2. If for some constant k,  $P(X = i) = kP(X = i - 1)$  for  $i = 1, 2$  and  $P(X = 0) = \frac{1}{7}$ , then the value of k is :  
(a) 3 (b) 1 (c) 4 (d) 2
9. The maximum value of the function  $x^2 e^{-2x}$ ,  $x > 0$  is :  
(a)  $\frac{1}{e^2}$  (b)  $\frac{1}{e}$  (c)  $\frac{4}{e^2}$  (d)  $\frac{1}{2e}$
10. The operation \* defined by  $a * b = \frac{ab}{7}$  is not a binary operation on :  
(a) R (b) Q (c) C (d) Z
11. The area between  $y^2 = 4x$  and its latus rectum is :  
(a)  $\frac{8}{3}$  (b)  $\frac{16}{3}$  (c)  $\frac{5}{3}$  (d)  $\frac{4}{3}$
12. Angle between the curves  $y^2 = x$  and  $x^2 = y$  at the origin is :  
(a)  $\frac{\pi}{2}$  (b)  $\tan^{-1}\left(\frac{3}{4}\right)$   
(c)  $\frac{\pi}{4}$  (d)  $\tan^{-1}\left(\frac{4}{3}\right)$
13.  $|\text{adj}(\text{adj}A)| = |A|^{16}$ , then the order of the square matrix A is :  
(a) 2 (b) 3 (c) 5 (d) 4
14. The value of  $\left(\frac{1+i}{\sqrt{2}}\right)^8 + \left(\frac{1-i}{\sqrt{2}}\right)^8$  is :  
(a) 8 (b) 4 (c) 2 (d) 6
15. If  $|z| = 1$ , then the value of  $\frac{1+z}{1+\bar{z}}$  is :  
(a)  $\frac{1}{z}$  (b)  $z$  (c) 1 (d)  $\bar{z}$
16. The abscissa of the point on the curve  $f(x) = \sqrt{8-2x}$  at which the slope of the tangent is -0.25?  
(a) -2 (b) 8 (c) 0 (d) -4

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The CTIA certification is an excellent choice for professionals who want to demonstrate their expertise in threat intelligence analysis. It is a highly respected certification that is recognized by employers worldwide, and it can help professionals advance their careers and increase their earning potential.

## **ECCouncil Certified Threat Intelligence Analyst Sample Questions (Q36-Q41):**

### **NEW QUESTION # 36**

Kim, an analyst, is looking for an intelligence-sharing platform to gather and share threat information from a variety of sources. He wants to use this information to develop security policies to enhance the overall security posture of his organization.

Which of the following sharing platforms should be used by Kim?

- A. PortDroid network analysis
- B. Cuckoo sandbox
- C. OmniPeek
- **D. Blueliv threat exchange network**

**Answer: D**

### **NEW QUESTION # 37**

A team of threat intelligence analysts is performing threat analysis on malware, and each of them has come up with their own theory and evidence to support their theory on a given malware.

Now, to identify the most consistent theory out of all the theories, which of the following analytic processes must threat intelligence manager use?

- A. Automated technical analysis
- **B. Analysis of competing hypotheses (ACH)**
- C. Threat modelling
- D. Application decomposition and analysis (ADA)

**Answer: B**

### **NEW QUESTION # 38**

Philip, a professional hacker, is planning to attack an organization. In order to collect information, he covertly collects information from the target person by maintaining a personal or other relationship with the target person.

Which of the following intelligence sources is used by Philip to collect information about the target organization?

- A. MASINT
- **B. CHIS**
- C. FISINT
- D. SOCMINT

**Answer: B**

Explanation:

The scenario describes a situation where Philip gathers intelligence through direct personal relationships or covert human contact with the target individual. This aligns with the intelligence source known as CHIS (Covert Human Intelligence Source).

CHIS refers to intelligence collected from a human source who provides information about individuals, groups, or organizations, often through personal relationships or covert interaction. This type of intelligence is gathered directly from people rather than technical or electronic means.

In the context of threat intelligence and security analysis, CHIS is part of Human Intelligence (HUMINT), which involves acquiring information through human interaction. Such sources can include insiders, informants, or individuals with access to sensitive details about the target organization.

Attackers or intelligence professionals use this method to gather sensitive or non-public information that cannot be obtained from open or technical sources. Philip's method of maintaining a personal relationship with the target person to collect information fits perfectly into this category.

Why the Other Options Are Incorrect:

\* B. MASINT (Measurement and Signature Intelligence): This intelligence source collects and analyzes data obtained from sensors,

measuring electromagnetic, acoustic, or nuclear signatures. It is a technical intelligence method and does not involve human relationships.

\* C. SOCMINT (Social Media Intelligence):SOCMINT involves collecting intelligence from social media platforms such as Facebook, LinkedIn, Twitter, or Instagram. It uses publicly available data rather than personal interaction.

\* D. FISINT (Foreign Instrumentation Signals Intelligence):This refers to intelligence derived from intercepted foreign instrument signals, such as telemetry or weapon system emissions. It is related to technical and signals intelligence, not human sources.

Conclusion:

Philip used a Covert Human Intelligence Source (CHIS) approach, which involves collecting intelligence through human interaction or relationships to gain insider knowledge about the target organization.

Final Answer: A. CHIS

Explanation Reference (Based on CTIA Study Concepts):

Based on the CTIA study guide section on "Sources of Threat Intelligence," CHIS is recognized as a human intelligence source derived from interpersonal contact, covert sources, or informants that provide insider-level information about an organization or target individual.

### NEW QUESTION # 39

An XYZ organization hired Mr. Andrews, a threat analyst. In order to identify the threats and mitigate the effect of such threats, Mr. Andrews was asked to perform threat modeling. During the process of threat modeling, he collected important information about the threat actor and characterized the analytic behavior of the adversary that includes technological details, goals, and motives that can be useful in building a strong countermeasure.

What stage of the threat modeling is Mr. Andrews currently in?

- A. Threat profiling and attribution
- B. System modeling
- C. Threat ranking
- D. Threat determination and identification

Answer: A

### NEW QUESTION # 40

Andrews and Sons Corp. has decided to share threat information among sharing partners. Garry, a threat analyst, working in Andrews and Sons Corp., has asked to follow a trust model necessary to establish trust between sharing partners. In the trust model used by him, the first organization makes use of a body of evidence in a second organization, and the level of trust between two organizations depends on the degree and quality of evidence provided by the first organization.

Which of the following types of trust model is used by Garry to establish the trust?

- A. Mandated trust
- B. Direct historical trust
- C. Validated trust
- D. Mediated trust

Answer: C

### NEW QUESTION # 41

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