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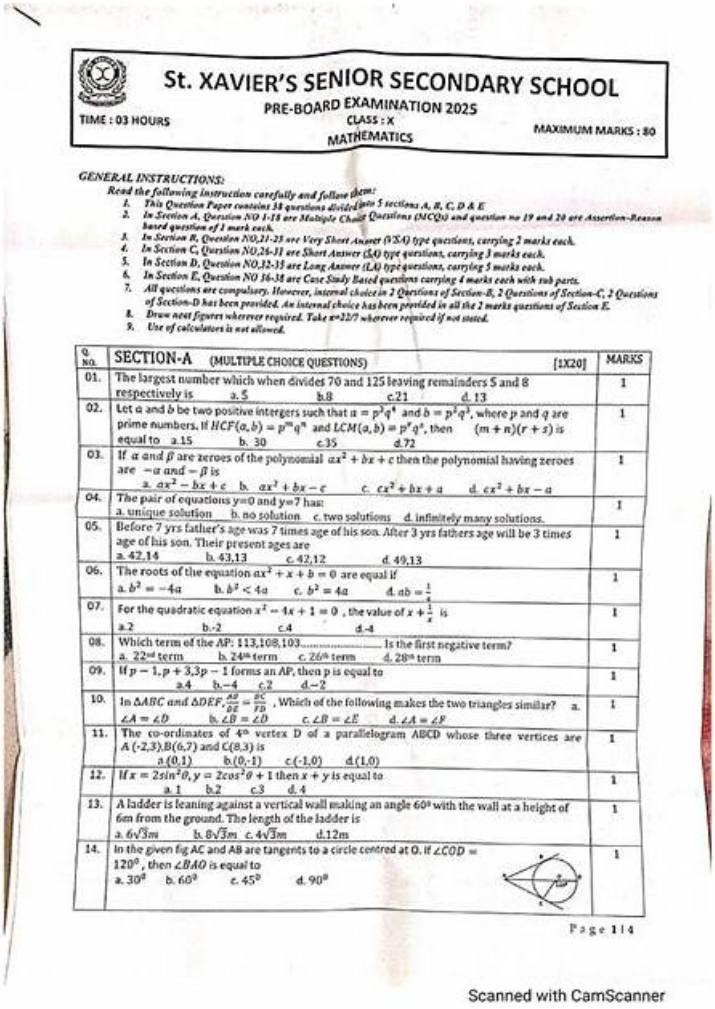

St. XAVIER'S SENIOR SECONDARY SCHOOL

PRE-BOARD EXAMINATION 2025

TIME : 03 HOURS | CLASS : X | MATHEMATICS | MAXIMUM MARKS : 80

GENERAL INSTRUCTIONS:

Read the following instruction carefully and follow them:

1. This Question Paper contains 38 questions divided into 5 sections A, B, C, D & E
2. In Section A, Question NO 1-18 are Multiple Choice Questions (MCQs) and question no 19 and 20 are Assertion-Reason based question of 1 mark each.
3. In Section B, Question NO.21-25 are Very Short Answer (VSA) type questions, carrying 2 marks each.
4. In Section C, Question NO.26-31 are Short Answer (SA) type questions, carrying 3 marks each.
5. In Section D, Question NO.32-35 are Long Answer (LA) type questions, carrying 5 marks each.
6. In Section E, Question NO 36-38 are Case Study Based questions carrying 4 marks each with sub parts.
7. All questions are compulsory. However, internal choice in 2 Questions of Section-B, 2 Questions of Section-C, 2 Questions of Section-D has been provided. An internal choice has been provided in all the 2 marks questions of Section E.
8. Draw neat figures wherever required. Take $\pi=22/7$ wherever required if not stated.
9. Use of calculators is not allowed.

Q. NO.	SECTION-A (MULTIPLE CHOICE QUESTIONS) [1X20]	MARKS
01.	The largest number which when divides 70 and 125 leaving remainders 5 and 8 respectively is a. 5 b.8 c.21 d. 13	1
02.	Let a and b be two positive integers such that $a = p^3q^4$ and $b = p^2q^3$, where p and q are prime numbers. If $HCF(a,b) = p^mq^n$ and $LCM(a,b) = p^rq^s$, then $(m+n)(r+s)$ is equal to a.15 b. 30 c.35 d.72	1
03.	If α and β are zeroes of the polynomial ax^2+bx+c then the polynomial having zeroes are $-\alpha$ and $-\beta$ is a. ax^2-bx+c b. ax^2+bx-c c. cx^2+bx+a d. cx^2+bx-a	1
04.	The pair of equations y=0 and y=7 has: a. unique solution b. no solution c. two solutions d. infinitely many solutions.	1
05.	Before 7 yrs father's age was 7 times age of his son. After 3 yrs fathers age will be 3 times age of his son. Their present ages are a. 42,14 b. 43,13 c. 42,12 d. 49,13	1
06.	The roots of the equation $ax^2+x+b=0$ are equal if a. $b^2=-4a$ b. $b^2<4a$ c. $b^2=4a$ d. $ab=\frac{1}{4}$	1
07.	For the quadratic equation $x^2-4x+1=0$, the value of $x+\frac{1}{x}$ is a.2 b.-2 c.4 d.-4	1
08.	Which term of the AP: 113,108,103..... Is the first negative term? a. 22nd term b. 24th term c. 26th term d. 28th term	1
09.	If $p-1, p+3, 3p-1$ forms an AP, then p is equal to a.4 b.−4 c.2 d.−2	1
10.	In ΔABC and ΔDEF, $\frac{AB}{DE}=\frac{BC}{FD}$, Which of the following makes the two triangles similar? a. $\angle A=\angle D$ b. $\angle B=\angle D$ c. $\angle B=\angle E$ d. $\angle A=\angle F$	1
11.	The co-ordinates of 4th vertex D of a parallelogram ABCD whose three vertices are A (-2,3),B(6,7) and C(8,3) is a.(0,1) b.(0,-1) c.(-1,0) d.(1,0)	1
12.	If $x=2sin^2\theta, y=2cos^2\theta+1$ then $x+y$ is equal to a. 1 b.2 c.3 d. 4	1
13.	A ladder is leaning against a vertical wall making an angle 60° with the wall at a height of 6m from the ground. The length of the ladder is a. $6\sqrt{3}m$ b. $8\sqrt{3}m$ c. $4\sqrt{3}m$ d.12m	1
14.	In the given fig AC and AB are tangents to a circle centred at O. If $\angle COD = 120^0$, then $\angle BAO$ is equal to a. 30° b. 60° c. 45° d. 90°	1

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CompTIA Cybersecurity Analyst (CySA+) Certification Exam Sample Questions (Q548-Q553):

NEW QUESTION # 548
A security analyst is reviewing a recent vulnerability scan report for a new server infrastructure. The analyst would like to make the best use of time by resolving the most critical vulnerability first. The following information is provided:
Which of the following should the analyst concentrate remediation efforts on first?

- A. SVR04
- B. SVR02
- C. SVR01
- D. SVR03

Answer: B

Explanation:
SVR02 has a CVSS score of 7.1 and is exploitable, making itthe highest priority for remediation.
* SVR01 (CVSS 8.9) is not exploitable, so it is a lower risk.
* SVR03 (CVSS 3.5) is exploitablebut has alower severitythan SVR02.
* SVR04 (CVSS 6.7) is not exploitable, reducing its urgency.
Thus,B (SVR02) is the correct answer, as it presentsthe highest immediate risk.

NEW QUESTION # 549
A cybersecurity analyst notices unusual network scanning activity coming from a country that the company does not do business with. Which of the following is the best mitigation technique?

- A. Block the IP range of the scans at the network firewall.
- B. Geoblock the offending source country.
- C. Block the specific IP address of the scans at the network firewall.
- D. Perform a historical trend analysis and look for similar scanning activity.

Answer: B

Explanation:
Geoblocking is a security measure that restricts or blocks access to a network based on geographic location by analyzing IP addresses. Since the company does not do business with that country, blocking all traffic from that country reduces unnecessary and potentially malicious traffic, lowering the attack surface and minimizing exposure to threats originating there.

NEW QUESTION # 550
A security analyst needs to mitigate a known, exploited vulnerability related not tack vector that embeds software through the USB interface. Which of the following should the analyst do first?

- A. Check configurations to determine whether USB ports are enabled on company assets.
- B. Write a removable media policy that explains that USBs cannot be connected to a company asset.
- C. Review logs to see whether this exploitable vulnerability has already impacted the company.
- D. Conduct security awareness training on the risks of using unknown and unencrypted USBs.

Answer: A

Explanation:
USB ports are a common attack vector that can be used to deliver malware, steal data, or compromise systems.
The first step to mitigate this vulnerability is to check the configurations of the company assets and disable or restrict the USB ports if possible. This will prevent unauthorized devices from being connected and reduce the attack surface. The other options are also important, but they are not the first priority in this scenario.
References:
* CompTIA CySA+ CS0-003 Certification Study Guide, page 247

* What are Attack Vectors: Definition & Vulnerabilities, section "How to secure attack vectors"
* Are there any attack vectors for a printer connected through USB in a Windows environment?, answer by user "schroeder"

NEW QUESTION # 551
The management team requests monthly KPI reports on the company's cybersecurity program. Which of the following KPIs would identify how long a security threat goes unnoticed in the environment?

- A. Level of preparedness
- B. Intrusion attempts
- C. Employee turnover
- D. Mean time to detect

Answer: D

Explanation:
Mean time to detect (MTTD) is a metric that measures the average time it takes for an organization to discover or detect an incident. It is a key performance indicator in incident management and a measure of incident response capabilities. A low MTTD indicates that the organization can quickly identify security threats and minimize their impact12.
References: What Is MTTD (Mean Time to Detect)? A Detailed Explanation, Introduction to MTTD: Mean Time to Detect

NEW QUESTION # 552
An analyst investigated a website and produced the following:
Which of the following syntaxes did the analyst use to discover the application versions on this vulnerable website?

- A. nmap -o insecure.org
- B. nmap -A insecure.org
- C. nmap -sV -T4 -F insecure.org
- D. nmap -sS -T4 -F insecure.org

Answer: C

NEW QUESTION # 553
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