Plat-101 Exam Papers | Plat-101 Premium Exam

Statistics & Business Mathematics		2021(R/P)
Time: 3 Hours	ADC 22 / August / 2022	Max.Marks:100

Instruction: Attempt Two questions from each section.

SECTION "A"

1a. Find the distance between the points (3,9) and (6,5) (05)

b. Find the equation of straight line in general form passing through the points (-2,4) and (3,-1) (05)

2a. Find the derivative of the following functions: (05+05)

(i) $y = \log(x^2 + x)$ (ii) $y = \dfrac{x^2}{1+x^3}$

b. Find the Maximum OR Minimum value of the function $y = 3x^2 - 2x + 50$ (05)

3a. Given Two Matrices (05)

$$A = \begin{bmatrix} 3 & 0 & 1 \\ 1 & 2 & 3 \end{bmatrix} \text{ and } B = \begin{bmatrix} 2 & 1 \\ 3 & 6 \end{bmatrix}$$

Find (i) B^t (ii) $B \times A$

b. Use Cramer's rule to solve the following equations: (05)

$x + 3y = 10$ $2x - y = -8$

SECTION "B"

4a. Define various types of data. (04)

b. Compute (i) Mean (ii) Median (iii) Mode (12)

C-1	20-29	30-39	40-49	50-59	60-69
f	2	3	9	8	3

c. The speed of car's on a highway is 60, 65, 62, 60, 70, 68, 72, 62, find average speed using suitable formula. (04)

5a. Find the Quartile Deviation for the following data 10, 13, 9, 6, 4, 9, 18, 8, 7, 5, 14 (05)

b. What are the properties of variance? (05)

c. For the given data calculate coefficient of variation. (10)

C-1	11-15	16-20	21-25	26-30	31-35
f	10	20	50	10	10

6a. Find: (10)
(i) Regression equation of y on x
(ii) Coefficient of correlation for the data given below:

x	12	15	18	25	22	18	30
y	65	60	50	41	40	56	45

b. Find Fisher's Index Number (10)

Commodity	Price		Quantity	
	1995	1996	1995	1996
A	7	11	40	50
B	3	3	80	100
C	5	5	50	50

SECTION "C"

7a. Find the number of permutation of the words (06)
(i) ESSANI (ii) KARACHI

b. A beg contains 12 red and 8 black balls. If two balls are selected at random from the bag. What is the probability (10)
(i) Both are red (ii) Both are black (iii) One of each colour

c. Fill in the blanks: (04)
(i) Four people can sit in a row in ___ ways.
(ii) Three students can be selected out of five students in ___ ways.
(iii) Mean and variance of ___ distribution are equal.
(iv) There are ___ sample points in the sample space, when a coin is tossed 3 times.

8a. Given n=36, $\bar{X}$ =62, S=5 Find 95% Confidence Interval for μ. (05)

b. Draw all possible sample each of size 2 without replacement from the population 5, 8, 10, 15, 16 also verify that $E(\bar{X}) = \mu$ (10)

c. Let x be a binomial random variable with p=3/4 and n=5 Find (05)
(i) p(x=4) (ii) p(x≤2)

9a. Consider n_1 = 11, $\bar{X}_1$ = 75, S_1 = 6.25, n_2 = 14, $\bar{X}_2$ = 80, S_2 = 4.8 Test the hypothesis H_0: $\mu_1 = \mu_2$ against H_1: $\mu_1 \neq \mu_2$ use α=0.05 (Assume $\sigma^2_1 = \sigma^2_2$)

b. A random variable follows the Poission distribution with mean is 1.5 Find (i) p(x≤2) (ii) p(x=4) (iii) p(1<x≤3) (iv) p(x≥1) (10+10)

10a. Given n=16, $\bar{X}$ =30, S=2.4 Test the hypothesis H_0: μ=32 against H_1: μ≠32 use α=1% (10)

b. Two fair dice are rolled once. Find the probability that: (10)
(i) Both dice come up with same number
(ii) Sum of dots on the two dice is 10
(iii) Product of dots on the two dice is 8
(iv) Sum of dots on the two dice a multiple of 5

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Salesforce Plat-101 Exam Syllabus Topics:

Topic	Details
Topic 1	• Salesforce Ecosystem: This section of the exam measures skills of Marketing Cloud Administrators and covers the overall Salesforce ecosystem. It focuses on understanding the different resources available for learning and skill development, recognizing how Salesforce Customer 360 products can be applied in real business use cases, and explaining how organizations make use of Salesforce in daily operations. It also highlights awareness of job roles and career opportunities within the Salesforce ecosystem.
Topic 2	• Navigation: This section of the exam measures the skills of Marketing Specialists and covers how users navigate Salesforce. It tests the ability to locate and access necessary information in given scenarios and to identify where different types of Salesforce customizations take place. The emphasis is on practical system navigation that supports marketing operations.
Topic 3	• Reports & Dashboards: This section of the exam measures skills of Marketing Specialists and covers reporting and visualization in Salesforce. It includes describing how reports are built, how dashboards present insights, and how these tools help organizations monitor performance and make informed marketing decisions.
Topic 4	• Data Model: This section of the exam measures skills of Marketing Cloud Administrators and covers Salesforce's data model. It involves understanding the relationship between core standard objects such as Accounts, Contacts, Leads, Opportunities, and Cases. The section also evaluates knowledge of ensuring data visibility through features and maintaining data integrity using the right tools in different business scenarios.

Salesforce Certified Platform Foundations Sample Questions (Q46-Q51):

NEW QUESTION # 46
Get Cloudy Consulting wants to implement Salesforce within its sales and service divisions, and automate several processes that involve both.
Which approach should they explore first?

- A. Third-party consulting services
- B. Declarative

- C. Programmatic

Answer: B

Explanation:
Declarative tools in Salesforce allow for process automation without the need for code. These tools, such as Process Builder, Flow Builder, and Approval Processes, enable users to configure automation that spans multiple divisions like sales and service. This approach is user-friendly, cost-effective, and faster to implement compared to programmatic solutions.
* B. Programmatic: Programmatic approaches (e.g., Apex code) should be used when declarative tools cannot meet specific complex requirements.
* C. Third-party consulting services: While consulting services may assist with implementation, exploring Salesforce's native tools should be the first approach.
References from Salesforce Documentation:
* Declarative vs. Programmatic Development
* Process Automation Overview

NEW QUESTION # 47
Get Cloudy Consulting wants to implement AI Agents to assist with customer service.
Where can Agents be deployed?

- A. Chatter
- B. Slack
- C. Queues

Answer: B

Explanation:
Salesforce offers AI-powered tools like Einstein Bots and AI-powered agents to assist with customer service.
These tools can integrate into communication platforms to enhance user interactions. Slack, a Salesforce product, allows businesses to deploy AI Agents to streamline communication and provide instant support within customer workflows. This integration leverages Slack's powerful collaboration features combined with Salesforce's AI capabilities to resolve issues more efficiently.
Here is how the other options are incorrect:
* A. Queues: While Salesforce Queues manage workloads and assign cases, they are not a place where AI Agents can be deployed. Queues are primarily for task or case assignments.
* B. Chatter: Salesforce Chatter is a collaboration tool within Salesforce for internal communication. It does not support the deployment of AI Agents for customer service purposes.
References from Salesforce Documentation:
* Slack and Salesforce Integration Overview
* Einstein Bots Deployment Options
* Salesforce Associate Exam Guide

NEW QUESTION # 48
A college wants to incorporate Salesforce into its admissions program using Program Enrollment and Course Connections.
Which Salesforce cloud provides these features as standard offerings?

- A. Experience Cloud
- B. Education Cloud
- C. Marketing Cloud

Answer: A

Explanation:
The Education Cloud is the cloud that provides Program Enrollment and Course Connections as standard offerings. The Education Cloud is a set of products and solutions designed specifically for educational institutions, such as schools, colleges, and universities. The Education Cloud includes the Education Data Architecture (EDA), which is a managed package that adds pre-built objects, fields, workflows, and reports to the standard Salesforce platform. Program Enrollment and Course Connections are two features of EDA that allow the user to manage the enrollment and connection of students to academic programs and courses. The Experience Cloud is a cloud that allows the creation of digital experiences, such as websites, portals, and mobile apps, for customers, partners, and employees. The Marketing Cloud is a cloud that provides tools for creating and managing personalized marketing campaigns

across multiple channels, such as email, social media, web, and mobile.

NEW QUESTION # 49
A Salesforce associate wants to add a new related list of cases to the Account.
Where should the associate go to add the related list to Account?

- A. Page Layout
- B. Case Record page
- C. Account Record page

Answer: A

Explanation:
The related list of cases can be added to the account page layout, which determines the fields, buttons, and related lists that users see when they view an account record.

NEW QUESTION # 50
An online retail company uses Sales Cloud and Marketing Cloud. The company's Salesforce associate needs help while working in Marketing Cloud and wants to hear other Salesforce professionals' opinions. They would like to post a question that anyone around the globe who is familiar with Salesforce can answer.
Which resource should they use?

- A. Trailhead Academy
- B. Trailblazer Community
- C. Salesforce Help

Answer: B

Explanation:
The Trailblazer Community is the resource that the Salesforce associate should use to post a question that anyone around the globe who is familiar with Salesforce can answer. The Trailblazer Community is an online platform where Salesforce users, partners, employees, and experts can connect, collaborate, and learn from each other. The Trailblazer Community allows the user to ask questions, join groups, share ideas, access resources, and earn badges. Trailhead Academy is a resource that provides training courses, certifications, and learning paths for Salesforce users who want to enhance their skills and knowledge. Salesforce Help is a resource that provides documentation, guides, videos, and support for Salesforce users who need assistance with using or troubleshooting Salesforce products and features.

NEW QUESTION # 51
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