

Reliable AP-201 Exam Question | AP-201 Training Solutions

SET-A

Roll No: -



GL BAJAJ
Institute of Technology & Management
FIND YOUR SPARK

B. TECH (SEM-III)
Pre University Test (Even Semester 2015-16)
Engineering Physics (BAS 201)

Time: 3:00 Hrs Max. Marks: 70

Note: (i) No student will be allowed to leave the examination room before end of exam.
(ii) Be precise in your answer.
(iii) All questions are compulsory.

Course Outcomes:
Following are the course outcomes of the subject -

CO Code	Course Outcome (CO)	Bloom's Level
COBAS201.1	To explain the distribution of energy in black body radiation and to understand the difference in particle and wave nature with explanation of Compton effect and Schrodinger wave equation	K3
COBAS201.2	To understand the concept of displacement current and consistency of Ampere's law and also the properties of electromagnetic wave in different medium with the use of Maxwell's equation.	K4
COBAS201.3	To understand the behavior of waves through various examples/applications of interference and diffraction phenomenon and the concept of grating and resolving power	K3
COBAS201.4	To know the functioning of optical fiber and its properties and applications. To understand the concept, properties and applications of Laser	K3
COBAS201.5	To know the properties and applications of superconducting materials and nano materials.	K2

SECTION A

Q. N.-1	Attempt all parts.	Marks	CO's	BL
(a)	Write Planck's quantum hypothesis used to explain blackbody radiation spectrum.	2	CO.1	K2
(b)	Show that conservation of charge leads to the continuity equation.	2	CO.2	K2
(c)	Explain the need for extended sources in the interference due to division of amplitude.	2	CO.3	K2
(d)	Write the difference between grating spectra and prism spectra.	2	CO.4	K2
(e)	Define High Temperature Superconductor (HTS) with suitable examples.	2	CO.5	K2

SECTION B

Q. N.-2	Attempt all parts.	Marks	CO's	BL
(a)	1) An electron and a proton are accelerated through the same potential difference of 1 KV. Find the ratio of their de Broglie wavelengths. 2) Calculate the Compton shift and also the kinetic energy imparted to the recoiling electron, if X ray of wavelength 1Å are scattered from a carbon black. The scattered radiation is viewed at 90° to the incident beam.	3+3	CO.1	K3
(b)	1) A medium has conductivity $\sigma = 4.5 \text{ S/m}$ and permittivity $\epsilon = 4\epsilon_0$. If applied electric field is $E = 50 \cos(10^6 t)$; calculate the ratio of conduction current density and displacement current density J_c/J_d . 2) An EM wave has $E_0 = 150 \text{ V/m}$ and $B_0 = 5 \times 10^{-7} \text{ T}$. Find average energy flow per unit area per unit time.	3+3	CO.2	K4
(c)	1) In Newton's ring experiment the diameter of 4 th and 12 th bright ring are 0.4 cm and 0.7 cm respectively. Deduce the diameter of 20 th bright ring. 2) Light of wavelength 4000 Å is incident on a slit of width 0.10 mm. Calculate the total angular width of the central maximum	3+3	CO.3	K3
(d)	1) Calculate the population ratio of two state in He-Ne Laser that produces light of wavelength 6000 Å at 300K. 2) A 50µm core diameter step-index fibre has core-cladding indices 1.50 and 1.48 respectively. A light ray of wavelength 85µm enters at acceptance angle. Find: (i) Number of modes propagating through fibre (ii) Maximum radius permitted for single mode operation (iii) Number of reflections per meter.	3+3	CO.4	K3

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Salesforce B2B Commerce for Administrators Accredited Professional Sample Questions (Q27-Q32):

NEW QUESTION # 27

An Administrator is beginning to configure a B2B Commerce storefront.

Which two settings does the Administrator need to configure at the start of setup?

- A. Enable Zero Quantity
- B. Enable Optional Price Books for Orders
- C. Enable Reduction Orders
- D. Enable Enhanced Commerce Orders

Answer: A,D

Explanation:

At the start of setting up a B2B Commerce storefront, the Administrator needs to configure settings that are crucial for the basic operations of the store. Enabling Enhanced Commerce Orders (B) is essential as it allows for the use of advanced order management features, including complex pricing and discount structures, which are common in B2B transactions. Enable Zero Quantity (C) is also a key setting, especially for B2B scenarios where orders might be created as placeholders or for backorder items, allowing for zero quantity orders to be processed through the system. While Optional Price Books for Orders (A) and Reduction Orders (D) can be important in certain contexts, they are not typically the initial settings configured during the setup process.

NEW QUESTION # 28

A bookstore sells legal textbooks on its B2B Commerce site. An Administrator needs to make their custom field named "Edition" on the product object no longer searchable.

How can the Administrator make the product field no longer searchable within the Manage Searchable Fields?

- A. Add the Product field to the Search Field Exclusion list.
- B. Click on the plus (+) icon next to Edition to change the icon to a checkmark icon.
- C. Click on the plus (+) icon next to Edition to change the icon to a minus sign (-).
- D. Click on the checkmark icon next to Edition to change the icon to a plus sign (+).

Answer: A

Explanation:

To make a custom field named "Edition" on the product object no longer searchable within the Manage Searchable Fields in a Salesforce B2B Commerce site, the Administrator should D. Add the Product field to the Search Field Exclusion list. This action explicitly removes the field from the list of fields that are indexed and considered during search operations, thereby making it non-searchable.

NEW QUESTION # 29

AB2B Administrator needs to set up a user so they have the ability to switch between accounts in the store to purchase for multiple accounts.

Which three tasks are necessary to allow this user to switch to another account?

- A. Share the Account with the purchasing user.
- B. Add the Switch Accounts component to the Store home page.
- C. Assign the Account Switcher User permission to the purchasing user.
- D. Create an External Managed Account record.
- E. Assign the Buyer Manager permission to the purchasing user.

Answer: A,B,C

Explanation:

To allow a user to switch between accounts in the store to purchase for multiple accounts, the necessary tasks include A. Add the Switch Accounts component to the Store home page, B. Assign the Account Switcher User permission to the purchasing user, and

C. Share the Account with the purchasing user. These steps enable a user-friendly mechanism for buyers to manage purchases across different accounts, enhancing the purchasing experience.

NEW QUESTION # 30

In which three instances should an Administrator perform a search index?

- A. After making changes to the Product Detail Page layout in Lightning Experience Builder
- B. After making changes to tax calculation settings for Checkout
- C. After adding a new category with a product under it which is ready to be sold
- D. After making a delta load for the Product Catalog
- E. After updating the description of 10 products

Answer: C,D,E

Explanation:

An Administrator should perform a search index in instances such as B. After updating the description of 10 products, to ensure the updated content is searchable, C. After adding a new category with a product under it which is ready to be sold, to make the new category and its products discoverable, and D. After making a delta load for the Product Catalog, to index the newly added or updated product information.

NEW QUESTION # 31

What user license is needed at a minimum to deploy B2B Commerce successfully for Buyers and external users?

- A. Partner Community License
- B. Full CRM User license
- C. Customer Community Plus License
- D. Customer Community License

Answer: D

Explanation:

To deploy B2B Commerce successfully for Buyers and external users, the minimum user license needed is D. Customer Community License. This license type is designed for external users to access the community, enabling them to engage with the B2B Commerce store, view products, and make purchases.

NEW QUESTION # 32

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