



BRAINWARE UNIVERSITY

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Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

Term End Examination 2024-2025
Programme – B.Tech.(CE)]-2021
Course Name – Contracts and Accounting
Course Code - PEC-CE701B
(Semester VII)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) State the main function of the PWD Section Officer.
 - a) Conduct field inspections
 - b) Oversee financial transactions
 - c) Prepare technical reports
 - d) Manage project scheduling
- (ii) Select the most suitable method for urgent repairs in PWD operations.
 - a) Rate list method
 - b) Contract method
 - c) Day's work method
 - d) Piece work method
- (iii) Identify the PWD document that provides a detailed estimate of the project cost.
 - a) Rate list
 - b) Budget provision
 - c) Technical sanction
 - d) Administrative approval
- (iv) State the primary function of the PWD Assistant Engineer.
 - a) Overseeing financial operations
 - b) Designing project plans
 - c) Supervising construction work
 - d) Conducting technical research
- (v) Choose the method used by PWD when exact costs cannot be predetermined and work varies daily.
 - a) Contract method
 - b) Piece work method
 - c) Day's work method
 - d) Rate list method
- (vi) Choose the purpose of using the rate list method.
 - a) To estimate total project cost
 - b) To calculate cost based on unit rates
 - c) To manage day-to-day labor
 - d) To select contractors
- (vii) State the role of the PWD Technical Assistant.
 - a) Conducting financial audits
 - b) Assisting with technical drawings and calculations

- c) Managing administrative approvals d) Overseeing large projects
- (viii) Identify the primary purpose of a contract in engineering.
- a) To outline project goals b) To define responsibilities and obligations
c) To estimate project costs d) To schedule project timelines
- (ix) Choose the type of contract best suited for projects where the scope is clearly defined and costs are agreed upon in advance.
- a) Cost-plus percentage contract b) Lump sum contract
c) Labor contract d) Fee contract
- (x) Choose the key requirement for a contract to be considered valid.
- a) Mutual consent b) Written documentation
c) Defined project scope d) Cost estimates
- (xi) Select the contract type that involves paying a percentage of the total project cost plus an additional fee based on cost variations.
- a) Cost-plus variable fee contract b) Cost-plus fixed fee contract
c) Fee contract d) Target contract
- (xii) Identify the type of contract best suited for projects where the work is divided into specific items, each with a distinct rate.
- a) Lump sum contract b) Item rate contract
c) Cost-plus percentage contract d) Fee contract
- (xiii) Choose the method for payment where the contractor receives a fixed percentage of the project cost plus a fixed fee.
- a) Cost-plus fixed fee contract b) Cost-plus variable fee contract
c) Percentage rate contract d) Target contract
- (xiv) Select the type of contract where the final payment is adjusted based on the contractor cost-efficiency.
- a) Lump sum contract b) Target contract
c) Cost-plus percentage contract d) Fee contract
- (xv) Identify the main feature of a percentage rate contract.
- a) Fixed payment for entire project b) Payment based on percentage of total cost
c) Payment based on labor costs d) Fixed fee plus percentage

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Modify the procedure for initiating work by the PWD to enhance efficiency. (3)
3. Describe the key requirements for a valid contract. (3)
4. Write a brief overview of the arbitration process in three steps. (3)
5. Compare the terms Earnest Money and Security Deposit in the context of tenders. (3)
6. Consider the registration requirements for contractors in various classes. (3)

OR

Evaluate the advantages of using BOT projects in construction contracts. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Classify the impacts of technical sanctions on project timelines and budgets in PWD work. (5)
8. Describe the key components that constitute a valid contract. (5)
9. Discuss the significance of contractor registration in ensuring quality and compliance. (5)

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10. Modify a standard tender document to align it with specific project requirements. (5)
11. Write about the factors affecting the market value of properties and their implications. (5)
12. Evaluate the impact of labor contracts on project timelines and cost efficiency. (5)

OR

Consider the role of fee contracts in incentivizing contractors for project success. (5)
