



BUGESERA DISTRICT

**TSS 2nd TERM DISTRICT COMPREHENSIVE ASSESSMENT
SCHOOL YEAR: 2024-2025**

SECTOR: CONSTRUCTION AND BUILDING SERVICES

TRADE: BUILDING CONSTRUCTION

...../100

RQF LEVEL: LEVEL 3

MODULE CODE AND TITLE: BDCPS301PLASTERING OF STRUCTURE ELEMENTS

DURATION: 3hours

DATE: / / 2025

INSTRUCTIONS TO CANDIDATE:

- ✓ This exam has three sections.
- ✓ Maximum marks...../ 100 Marks
- ✓ Attempt all Questions in A
- ✓ Choose only two questions in section B.
- ✓ Choose only one question in section C.
- ✓ Use pencil to draw any sketch mandatory
- ✓ Draw a line after answer the question

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SECTION A Attempt all Questions**(55marks)****Q1.** Complete the following sentences with appropriate word(s). **(5marks)**

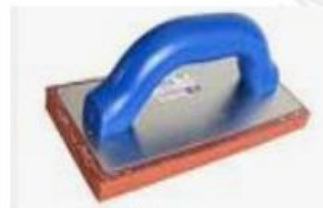
- a.is used to spread mortar on the surface.
- b. Tape measure is used
- c.is used to transport materials on site.
- d. To effectively level the plaster screeds vertically, it is recommended to use.....
- e. Mortar is a mixture of.....

Q2. Distinguish between the two (2) methods of batching mortar ingredient for plastering purposes. **(4marks)****Q3.** Differentiate good plastering from bad plastering based on their characteristics. Provide at least four points for each. **(4marks)****Q4.** Fill in the given figure with the correct word(s) **(4marks)**

a)



b)



c).....



d).....

Q5.a) What factors influence the selection of proper ingredients for plaster? **(3marks)**b) Explain clearly the term “screeds” in plastering. **(2marks)****Q6.** Answer by true or false to the following statement. **(5marks)**

- a. Lime can be used to plaster the exposed works subjected to humidity.
- b. Sea water is not recommended to be used in plastering works because it contains salts.
- c. Deteriorated cement is used to plaster internal surfaces of walls.
- d. Cement is an excellent material recommended for plastering works mainly in exposed places and areas subjected to water or humidity.
- e. The strength and durability of plaster is only governed by cement used.
Any sand can be used to prepare the plaster

Q7.

- a. Enumerate at least three (3) qualities of good fine aggregates used in plastering works? **(3marks)**
- b. Define the following term: **(2marks)**
 - i. Dots:
 - ii. Grinning:

Q8. Choose the letter corresponding to the correct answer in each statement: **(5marks)**

1.What is the primary purpose of applying screeds on a wall at regular intervals?

- a. To add decorative patterns to the wall
- b. To make the wall waterproof
- c. To provide a level and uniform surface for plastering
- d. To reduce the need for curing

2.What problem can occur if screeds are not applied correctly?

- a. The plaster may become wavy and uneven
- b. The plaster will dry too quickly
- c. The wall will become structurally weak
- d. The plaster will become waterproof

3.What is the ideal consistency of the mortar used for screeds?

- a. Dry and crumbly
- b. Very watery
- c. Sticky like glue
- d. Thick but workable

4.Why is it important to let screeds set before applying plaster?

- a. To prevent the screeds from mixing with the plaster
- b. To ensure the screeds serve as a firm guide for leveling
- c. To make the plaster dry faster
- d. To avoid cracks in the wall

5. How does the spacing of screeds affect the plastering process?

- a. Wider spacing leads to a smoother finish
- b. Closer spacing ensures better leveling and uniformity
- c. Spacing does not affect the plastering process
- d. Irregular spacing improves wall strength

Q9. Match the following properties of good sand with their descriptions: **(5marks)**

Column A (Properties of Good Sand)	Column B (Descriptions)
1.Hardness	A. Free from clay, silt, and organic matter
2. Grain Shape	B. Should be strong and resistant to crushing
3. Cleanliness	C. Angular and rough grains provide better bonding
4. Grading	D. Helps in reducing voids and improving compaction.
5. Fineness Modulus	E. Well-graded sand improves strength and durability

Q10. What are the key factors to consider when ensuring that surfaces are suitable for plastering, given that any four (4) surfaces should be reasonably dry and protected from the weather?" **(4marks)**

Q11. State any five (5) benefits of using superplasticizer admixtures in mortar mixes during plastering work. **(5marks)**

Q12.

- a. How is the water-cement ratio expressed? **(2marks)**
- b. What is adhesion? **(2marks)**

SECTION B: Choose only two questions

(30marks)

Q13. Suppose that the cement you have used on plaster shows signs of weakness, such as cracking and poor adhesion, despite passing field tests.

- a. Analyse the cause of failure in plaster. **(10marks)**
- b. Identify measures you would take to prevent the failure so that it will not happen again. **(5marks)**

Q14. It is necessary to carry out field test of the cement sample before usage on the sites to know if the cement is good or bad one.

- a. Describe different kind of tests that you would carry out on the field to help you decide on the quality of the cement. **(10marks)**
- b. Illustrate any five (5) physical properties of cement **(5marks)**

Q15. Differentiate between interior and exterior plastering according to the following aspects: **(15marks)**

- a. Purpose :
- b. Material used:
- c. Durability requirement:
- d. Moisture resistance:
- e. Maintenance:
- f. Thickness:
- g. Surface Finish:

Q16. a. Explain the following terminology used in plastering of structure of elements. **(10marks)**

- a. Blistering:
- b. Cracking:
- c. Keys:
- d. Dado:
- e. Dubbing coat:

b. Explain briefly how plastering tools and equipment should be effectively handled. **(5marks)**

SECTION C Choose only one question

(15marks)

Q17. A $10\text{m} \times 3\text{m}$ wall has a $2\text{m} \times 2.1\text{m}$ door and two windows (each $1.5\text{m} \times 1.2\text{m}$). The plaster thickness is 15mm, and the mix ratio is 1:3. Assume a water-cement ratio of 0.5.

- a. Find the net plastering area.
- b. Calculate the total cement (in bags), sand (in m^3), and water (in liters) required.

5marks

(10marks)

Q18. Explain the significance of plastering in construction and list thirteen(13) objectives it fulfills.

(15marks)

Good luck !!!

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