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BUGESERA DISTRICT

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

...../100 MARKS

SECTOR: CONSTRUCTION AND BUILDING SERVICES

TRADE: BUILDING CONSTRUCTION

RQF LEVEL: 3

**MODULE CODE AND TITLE: BDCCF301: PERFORM CEMENT FLOORING
CONSTRUCTION**

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.**

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SECTION A: Attempt all questions/50marks

1.define the following terms used in cement flooring/8marks

- a) screed
- b) concrete

2. Which of the following is the most important PPE for protecting the eyes from cement dust during floor installation? /4marks

- a) Safety glasses
- b) Face shield
- c) Goggles
- d) Respirator

3.Which of the following types of cement is most commonly used for general construction work? /4marks

- a) Sulphate Resisting Cement
- b) Ordinary Portland Cement
- c) Rapid Hardening Cement
- d) High Alumina Cement

4.What is the main reason for wearing a helmet or hard hat while working with cement flooring? /4marks

- a) To keep hair clean
- b) To protect from falling debris and equipment
- c) To shield against cement splashes
- d) To protect the head from heat

5. Give at least any five (5) types of concrete /5marks

6. What is the primary function of a Damp Proof Membrane (DPM) in pavement construction? /4marks

- a) To provide structural support to the pavement
- b) To prevent moisture from rising into the pavement structure from the subgrade
- c) To improve the aesthetic appearance of the pavement surface
- d) To increase the load-bearing capacity of the pavement

7. list out any five (5) Factors affecting workability of concrete./5marks

8. What is the main difference between rigid and flexible pavements?/4marks

- a) Rigid pavements are made of asphalt, while flexible pavements are made of concrete
- b) Flexible pavements distribute loads to the subgrade through a layer system, while rigid pavements rely on the concrete slab's strength
- c) Flexible pavements are thicker than rigid pavements
- d) Rigid pavements allow water infiltration, whereas flexible pavements do not

9. Give the use or function of the following tools. /5marks

- 1. Steel float:
- 2. Mortar hawk:
- 3. Straight edge:
- 4. Brush:
- 5. Pincers

10. Differentiate the following terms used in cement flooring (in construction works) "harness and lanyard". /4marks

11. What are the factors affecting the durability of concrete? /4marks

12. Efflorescence" on concrete surfaces is caused by: /4marks

- a) The presence of excess air in the mix
- b) The migration of soluble salts to the surface, leaving white deposits
- c) Cracks forming due to insufficient curing
- d) Excess water used during mixing

SECTION B: CHOOSE TWO QUESTIONS / 30marks

13. After define the term” CEMENT”. Illustrate the five (5) steps of cement manufacturing.

14. Fill the Table below which shows the Proportion of cement, sand and coarse aggregates in concrete

S. No.	Proportion	Nature of Work
1	1:1:2	
2	1:1($\frac{1}{2}$) :3	
3	1:2:4	
4	1:3:6	
5	1:4:8	

15 . In building construction, the pavement plays important role as it support the user’s loads and provide a hard-wearing material. for that give and explain two essential components of floor

16. referring to the table below, classify the properties of concrete based in their

corresponding state.

plastic state	hardened state
a)..... b)..... c).....	a)..... b)..... c).....

SECTION C : CHOOSE ONE QUESTION /20marks

17.a) Why do we need pavement?

b) why is it important to provide a small slope while setting the level of concrete screed?

18. Least out all the steps followed while preparing to install the screed.

GOOD LUCK!!!!!!!!!!!!!!!!!!!!!!

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