

**CHRISTIAN SOCIAL SERVICES COMMISSION (CSSC)
NORTHERN ZONE JOINT EXAMINATION SYNDICATE (NZJES)
FORM TWO PRE-NATIONAL EXAMINATIONS 2024
BUILDING CONSTRUCTION
MARKING SCHEME**

1. 10 MARKS(@ 01 Mark)

I	ii	iii	iv	v	vi	vii	viii	ix	X
B	A	D	A	D	C	D	C	B	C

2. 10 MARKS(@ 01 Mark)

i	ii	iii	iv	v
C	H	A	B	G

3. @ 2.5 Marks=10 MARKS

- a) Client: Is the owner of the project.
- b) Contract manager: The one who deals with all matters between owner and engineer
- c) Quantify surveyor the one who records the materials needed in the site
- d) General manager: the one who supervise the workers

4. (a) Wheelbarrow: To carry working tools
- (b) Plates: Used as a standing surface when making blocks
- ©. Showels: To mix well the aggregates

- a. Head Pans: To carry a mixed concrete
- b. Trowels: To put the concrete on special block

10 Marks

5. (a) Advantages 6 Marks

- i. It is an excellent electrical insulator
- ii. It is strong and brittle
- iii. It is shiny

(b) Disadvantages 4 Marks

- i. it is a transparent
- ii. It can break easily

6. (a) (i) Glass doors (ii) Glass windows (iii) Glass partition (iv) Glass roofs 6 Marks

- (b) (i) Pick axes method
- ii. Crow bars
- iii. Spades
- iv. Mechanical earth cutting equipments

7. (a) Harder: Is the shorter square face of the brick which measure 9cm x 9cm 2marks

- (b) Stretcher: Is a narrow face of the brick 2 marks

©Racking block: Is the masonry in which successive courses are stepped back from the face of the wall **2 marks**

(d)Be joint: Is the horizontal joint between two courses of the brick work **2 marks**

(e)Vertical Joint: Is the joint on the surface of the wall which lies directly above the vertical joints in alternate courses **2 marks**

8. (a) **6 Marks**

- i. Precast concrete walls ii. Retaining walls iii. Masory walls
iv. Stud walls v. Store wall vi. Brick wall **6 marks**

(b) (i) Plain concrete ii. Normal strength concrete iii. Reinforced concrete
iv. Precast concrete **4 Marks**

9. (a) i. Clearing away vegetation and surface soil

ii. Leveling and preparing the ground for the planned construction work **2 Marks**

(b) **2 Marks**

i. Clearing away vegetable and surface soil

ii. Leveling and preparing the ground for the planned construction works

10. (a) (i)To increase durability of timber

(ii)To avoid twisting of timber

(iii)To reduce moisture content

(iv)To protect the insect to attach the timber

(v)To increase the strength of the timber

(vi)To avoid coming off of painting during decoration

(b)(i)Air drying (ii) Kiln season (c) Chemical seasoning (d)Seasoning by boiling