



TERTIARY AND VOCATIONAL EDUCATION COMMISSION

MODEL PAPER

DRAFTSPERSON - NVQ LEVEL 4



Time: 03 hours

Carefully read the following instructions prior to commence the answering

- You must answer all questions available in the question paper.
 - The Paper consists of Short answer questions and write answers on the question paper
 - Question paper consists of 09 pages.
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1. Write down the 05 contents of a drawing register.

- i.
- ii.
- iii.
- iv.
- v.

2. What is the meaning of '**Superceded drawing**'?

3. What are the 'A' category paper sizes to be used in drawings? (A0 to A4)

- i.
- ii.
- iii.
- iv.
- v.

4. Write down **5 scales** used in detail drawings.

- i.
- ii.
- iii.
- iv.
- v.

5. Mention the meaning of following terms used in drawing office.

a) D.O.A.-

b) Pigeon Hole -

c) Pantograph -

6. What are the reasons using pile foundation in construction?

7. Write down the concrete mixtures used for concreting and state the ratios of these mixtures.

i.

ii.

iii.

8. What are the timber joints (**5 sufficient**) used in construction work

i.

ii.

iii.

iv.

v.

9. Name some available timber sizes (**5 sufficient**) used for timber roofing..

i.

ii.

iii.

v.

v.

10. Name 3 varieties of timber use to construct timber floors.

i.

ii.

iii.

11. What are the available lengths of Asbestos roofing sheets?

i.

ii.

iii.

v.

v.

12. What are the available glass thicknesses used in building construction?

13. What is the minimum space for a car park?

14. What are the standard cable sizes used for single pole (sp) electrical wire/Earth wire/Main wire used for house wiring?

- a. Electrical wire
- b. Earth wire
- c. Main wire

15. What are the advantages (03 sufficient) of 13A socket outlet?

i.

ii.

iii.

16. What are the fittings and accessories used for general fire alarm system?

Fittings

Accessories

17. State the standard fixing height of following items.

- a) lamp(pendent/ bracket) :
- b) Switches :
- c) Socket outlet -common areas :
- d) Socket outlet - kitchen :
- e) Socket outlet – bathroom :

18. What is anerobic oxidization in a septic tank?

19. What are the material (5 sufficient) used in Hot/Cold water supply lines?

- i. ii. iii.
- vi. v.

20. Name 7 no.s of P.V.C. cold water accessories used for domestic water supply

- i. ii. iii.
- iv. v. vi.
- vii.

21. What is the different between catch pit and gulley?

22. What is the appropriate amperage of socket outlet used to fixed

- i. Computer - ii. Air-condition -
- iii. Domestic water pump- iv. Hot water shower-

23. What are the following abbreviations stand for

- i. MCB -
- ii. MCCB -
- iii. RCCB -

24. Describe the usage of following structures coming in irrigation works

- i. Anicut -
- ii. Dam -

25. Describe the usage of following structures coming in irrigation works

- i. Sluice -
- ii. Spillway-

26. Describe the usage of following structures in irrigation

- i.
- ii.

27. What are the most essential requirements applied for classification of Roads?

28. Draw a Cross section of the road and name the parts.

29. Name five software programmes used for drafting& design?

- i.
- ii.
- ii.
- iv.
- v.

30 Name 03 input devices used to enter data to the computer.

- i.
- ii.
- lii.

31. Mention the task of following commands.

i. Array -

ii. Offset -

32. What are the precautions to be considered for safety of the person in the computer lab?

- i.
- ii.
- iii.
- iv.

33. Why do we use layer for computer aided drafting?

34. What are the three methods of communication?

- i.
- ii.
- iii.

35. What is the importance of two way communication when working in the drawing office?

36. Name 03 barriers to effective communication, and explain how to avoid these barriers.

- i.
- ii.
- iii.

37. What are the precautions to be considered for safety of the person in the computer lab?

- i.
- ii.
- iii.
- iv.

39. Who are the authorized persons (3 sufficient) to obtain technical advice in the drawing office?

- i.
- ii.
- iii.

40. What are the relevant legal authorities (5 sufficient) to be communicated to get the approval for construction/fabrication work?

i.

ii.

iii.

iv.

v.

41. (a) Using center line method, take off quantities for 4" block walls in ground floor of the given building.

(b) Calculate the weight of reinforcement of a column and footing up to slab level. Quantities to be taken according to **SLS 573**.

(20 marks)