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CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD
Technical and Vocational Education Examination

BUILDING CONSTRUCTION PROJECT MANAGEMENT 1
7211

JUNE 2020

ADVANCED LEVEL

Specialty	CIVIL ENGINEERING-BUILDING CONSTRUCTION:CE-BC(F4-BA)
Centre No. & Name	
Candidate No.	
Candidate Name	

Mobile phones are **NOT** allowed in the examination room.

7211 BUILDING CONSTRUCTION PROJECT MANAGEMENT1: MULTIPLE CHOICE QUESTION PAPER

1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you start answering the questions in this paper. Make sure you have a soft HB pencil and an eraser for this examination.

1. USE A SOFT HB PENCIL THROUGHOUT THE EXAMINATION.
2. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Before the examination begins:

3. Check that this question booklet is headed "**Advanced Level – 7211 BUILDING CONSTRUCTION PROJECT MANAGEMENT 1.**"

4. Insert the information required in the spaces above.

5. Insert the information required in the spaces provided on the answer sheet using your HB pencil:

Candidate Name, Exam Session, Subject Code, Centre Number and Candidate Number.

Take care that you do not erase or fold the answer sheet or make any marks on it other than those asked for in these instructions.

How to answer the questions in this examination:

6. Answer **ALL** the **50** questions in this Examination. All questions carry equal marks.
7. Each question has **FOUR** suggested answers: **A, B, C** and **D**. Decide which answer is correct. Find the number of the question on the Answer Sheet and draw a horizontal line across the letter to join the square brackets for the answer you have chosen.

For example, if **C** is your correct answer, mark **C** as shown below:

[A] [B] ☒ [C] [D]

8. Mark only one answer for each question. If you mark more than one answer, you will score a zero for that question. If you change your mind about an answer, erase the first mark carefully, then mark your new answer.
9. Avoid spending too much time on any one question. If you find a question difficult, move on to the next question. You can come back to this question later.
10. Do all rough work in this booklet, using, where necessary, the blank spaces in the question booklet.
11. **You must not take this booklet and the answer sheet out of the examination room. All question booklets and answer sheets will be collected at the end of the examination.**

Turn Over

1. Mobile concrete mixers are used when:
 - A The concrete to be mixed is of great quantity.
 - B Manual mixing is not possible
 - C There is no fixed concrete mixed
 - D When the project site is far from the mixing post.
2. What is a public contract?
 - A An agreement between two parties.
 - B An agreement between a community and an individual.
 - C A legalized contract between companies.
 - D An agreement between an individual and a school.
3. In a given project, who shows proof of ownership of land.
 - A The engineer.
 - B The customer.
 - C The contractor.
 - D The architect
4. What kind of formwork is used in permanent formwork?
 - A Metallic formwork.
 - B Plywood formwork.
 - C Traditional formwork.
 - D Mixed formwork.
5. An organization that puts its services or skills at the service of others is called.
 - A Factory.
 - B Enterprise.
 - C Building company.
 - D Consultancy.
6. He is a non-productive staff in building company.
 - A The manager.
 - B The foreman.
 - C The electrician.
 - D The mason.
7. The volume of concrete structural element are measured in:
 - A Cm^3
 - B m^3 .
 - C m.
 - D Dm^3 .
8. The volume of soil to be excavated is 15.58m^3 . what is the quantity to be carried away if the soil bulks by 15% and all the soil must be taken away?
 - A 18.192m^3 .
 - B 17.917m^3 .
 - C 17.90m^3 .
 - D 17.92m^3 .
9. Which of the following is preliminary works on a construction site:
 - A Offices for workers.
 - B Circulation and services.
 - C Site installation.
 - D Installation of machines.
10. What is the significance of this symbol



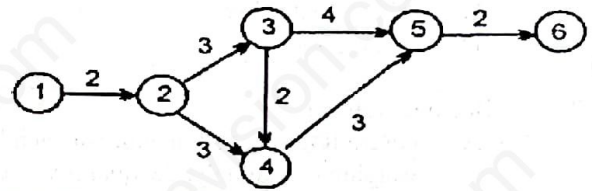
 - A No passing.
 - B Slow down
 - C Work is going on
 - D No parking.
11. What is the significance of this symbol?



 - A Wait.
 - B People crossing.
 - C Slow down.
 - D Narrow road.
12. The elements placed at the footing of a tower crane to avoid overturning of the crane is:
 - A Concrete Block
 - B Ballast
 - C Stabilizers
 - D Floor blocks
13. The objective of planning work is to:
 - A Reduce the quantity of materials for a project.
 - B Economize time, material and Labour.
 - C Use equipment where appropriate.
 - D Ensure that the job is properly done.
14. A node is:
 - A A mark where an event starts.
 - B A point where an event end.
 - C A point where an event ends or starts.
 - D A mark.

15. The function of a dummy activity is:
 A To show that its duration is zero.
 B To show relation between activities..
 C To lead to another activity
 D To show that it consumes man power.
16. One of the excavators most suitable for digging under water is the
 A Drag line
 B Hoe
 C Clam shell
 D Dipper shovel
17. The surface that will give highest coefficient of traction while using crawler track tractors is
 A Ice
 B Concrete
 C Loose sand
 D Earth
18. If the gross vehicle weight of a truck is 30 t and rolling resistance is 30 kg/tonne, then the tractive effort required to keep the truck moving at a uniform speed is
 A 30 kg
 B 300 kg
 C 900 kg
 D 1000 kg
19. During the construction period, price variation clause in contracts caters for
 A increase in rates of only important materials
 B variation in cost of materials element, labour element and petrol oil-lubricant element
 C variation in total cost of the project on an ad hoc basis
 D rate of inflation
20. The principal use of a grader is ;
 A Trimming and finishing
 B Shaping and trimming
 C Finishing and shaping
 D Finishing, shaping and trimming
21. The most suitable type of equipment for compaction of cohesive soils is
 A Smooth-wheeled rollers
 B Vibratory rollers
 C Sheep foot rollers
 D Tampers

22. In the network shown in Figure below, the critical path is



A	1-2-3-4-5-6
B	1-2-4-5-6
C	1-2-3-5-6
D	1-2-4-3-5-6

23. The independent float affects only
 A preceding activities
 B succeeding activities
 C the particular activity involved
 D critical activity
24. The time by which a particular activity can be delayed without affecting the preceding and succeeding activities is known as
 A total float
 B free float
 C interfering float
 D independent float
25. The reduction in project time normally results in
 A decreasing the direct cost and increasing indirect cost
 B increasing the direct cost and decreasing the indirect cost
 C increasing the direct cost and indirect cost both
 D decreasing the direct cost and indirect cost both
26. The constraints in case of resource smoothing operation would be
 A resources
 B project duration time
 C both resources and project duration time
 D Resources and activity
27. The dosage of cement for 6m^3 of reinforced concrete is 350kg/m^3 . What is the quantity of cement in bags of 50kg required for this work?
 A 36 bags
 B 40 bags
 C 42 bags
 D 41 bags

28. The most suitable type of equipment for compaction of soil behind trenches are
 A Smooth-wheeled rollers
 B Vibratory rollers
 C Sheep foot rollers
 D Tampers
29. Batching refers to
 A controlling the total quantity at each batch
 B weighing accurately, the quantity of each material for a job before mixing
 C controlling the quantity of each material into each batch
 D adjusting the water to be added in each batch according to the moisture content of the materials being mixed in the batch
30. Which of the following is a weakness of bar chart
 A Interdependencies of activities
 B interpretation
 C Identification of activities
 D Project delay
31. Frederick W. Taylor introduced a system of working known as
 A Line organization
 B Line and staff organization
 C Functional organization
 D Effective organization
32. Military organisation is known as
 A Line organization
 B Line and staff organization
 C Functional organization
 D Executive organisation
33. In a CPM network, activities are represented by
 A figures
 B Dotted line
 C Nodes
 D Arrows lines
34. The content of a site layout plan are
 A Store room, Area of structure to be realized, circulation and cranes
 B Area of structure to be realized, crane, concrete mixers and lorries
 C Area of structure to be realized, key posts, circulation of workers and equipment
 D Workshop offices and area of structure
35. In a well installed site, the concrete mixing post is made up of
 A Aggregates and cement
 B Concrete mixer, aggregates and cement
 C Fabrication unit, transportation unit, connecting unit, conservation and treatment unit
 D Reinforcement post, aggregates post
36. A concrete mixer of capacity 1000 litres is used for 18 hours to produce concrete with a regular output of 20 batches/hour. the total quantity of concrete produced is
 A $365m^3$
 B $336m^3$
 C $350m^3$
 D $360m^3$
37. $240m^3$ of fresh concrete is produced in 15 days of 8 hours per day. The contraction due to mixing is 25% what is the volume of the raw materials
 A $450m^3$
 B $320m^3$
 C $300m^3$
 D $310m^3$
38. A concrete mixer of capacity 300 litres is used for Concreting. The volume of concrete after each mixing is 220 litres. The loss due to mix is;
 A 26.67%
 B 26.00%
 C 26.60%
 D 27%
39. In construction enterprises, we have the productive and non-productive personnel. The non-productive personnel is further divided into how many groups.
 A 05
 B 04
 C 02
 D 03
40. The site installation plan, helps to improve circulation on the construction site. The list below are different aims of organizing movement except which
 A To increase output
 B Avoid late coming to work.
 C To reduce fatigue.
 D To reduce cost.
41. The progression and transition of one phase of a project to the next is often natural from start to end. Thus in a building project how many phases are there?
 A Two
 B Three
 C Four
 D Six
42. The following workers belong to the productive workers except which one of them?
 A Manager
 B Foreman
 C Labourer
 D Technicians

43. Which of the participant in the construction team is the initiator of a project?

- A The quantity surveyor.
- B The manager.
- C The architect.
- D The client.

44. What is a bid?

- A Documents to be given to the client.
- B Documents to study
- C This is the competitive process through which a contractor is selected.
- D A set of documents prepared and advertised for prospective contractors to buy and apply for a contract.

45. Which of this document is not part of a tender document?

- A Building Permit
- B Estimates
- C Drawings
- D Specifications.

46. Select the simplest definition of a contract from the list below.

- A A verbal or written agreement.
- B A legal agreement between two parties for the realization of a project.
- C A legal agreement between two parties
- D A legal agreement.

47. Amongst the listed points below, which one of them does not influence the use of a plant on a construction site.

- A The volume of work.
- B Need to speed up work
- C Need to reduce fatigue.
- D Need for competition

48. Determine the time required for concreting given that the total quantity is 40m^3 , and the output is $6.624\text{m}^3/\text{hr}$.

- A 6.03hrs
- B 6.14hrs
- C 6.05hrs
- D 6.04hrs

49. You are given the following information: volume of earth to be transported 1635.29m^3 , the loading time is 0.0494hrs , the time cycle is 0.274hrs . Calculate the number of trucks needed.

- A 8 trucks
- B 5 trucks
- C 6 trucks.
- D 7 trucks.

50. In a working day of 8 hours, John concreted 10m^3 . What is the output of John?

- A $5/4\text{m}^3/\text{h}$
- B $1.2\text{h}/\text{m}^3$
- C $5/8\text{m}^3/\text{h}$
- D $0.8\text{h}/\text{m}^3$

GO BACK AND CHECK YOUR WORK