#### CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD

Technical and Vocational Education Examination



### CHASSIS SYSTEMS AND TRANSMISSION 1 7130

JUNE XXXX ADVANCED LEVEL

Centre No. & Name	
Candidate No.	
Candidate Name	

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

## 7130 CHASSIS SYSTEMS AND TRANSMISION 1: 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:

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- 3. Check that this question booklet is headed "Advanced Level" –7130 CHASSIS SYSTEMS AND TRANSMISSION 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]  $\frac{G}{G}$  [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
020/ <b>7130</b> /1/C	

for more past questrions, corrections and notes, download the app "kawlo" on playstore or visit http://www.gcerevision.com

- 1. If an automatic transmission slips when cold, which of these is the most likely cause;
  - A Shorted low/reverse pressure switch
  - B Line pressure is at maximum in 1<sup>st</sup> gear
  - C Disconnected line pressure sensor
  - D Low line pressure
- 2. In a vehicle with a single plate clutch, loss of free pedal movement can be caused by;
  - A Worn release bearing
  - B Broken clutch linkage
  - C Worn clutch disc facing
  - D Weak pressure plate springs
- 3. What is the cause of "vehicle wandering" while being driven on level road?
  - A Too much negative camber
  - B Too much positive caster
  - C Worn ball joints
  - D Too much toe-out
- 4. Which of these could happen if the measurements in the brake set up in figure 3 varies from the manufacturer's specifications?

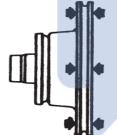


Figure 3.

- A Noisy brake operation
- B Brake grab or pull
- C Pulsating brake pedal
- D Low brake pedal
- 5. The car vibrates when the brakes are applied. The likely cause is
  - A unequal tyre pressure
  - B binding calliper slides
  - C excessive rotor run-out
  - D frozen calliper piston
- 6. Drag on a vehicle's drum brake persists even after the system is bleeded. The likely cause is
  - A a blocked compensating jet
  - B a blocked breather pot
  - C incorrect brake shoe adjustment

- D weak brake shoe return spring
- 7. The drop arm is connected via a ball joint to the
  - A track arm
  - B track rod
  - C steering arm
  - D drag link
- 8. When not in use, the pad of a disc brake is normally held close to the disc by
  - A hydraulic force
  - B a spring
  - C the Steel
  - D a piston
- 9. Universal joints are used in the propeller shaft assembly to allow for
  - A a speed variation of the propeller shaft.
    - B a change in length of the propeller shaft.
    - C a variation in the angle of the propeller shaft.
    - D twisting of the propeller shaft.
- 10. Flexible mountings are usually placed in between a car body and the chassis frame or sub frame, so as to
  - A lock the body on the frame work.
  - B prevent corrosion occurring between the body and the frame.
  - C reduce noise and vibration.
  - increase the clearance between the body and the tyres.
- 11. Three factors that are involved in boasting the efficiency of a braking system are the :
  - A Area of the brake linings, the radius of the brake drum and the thickness of brake linings.
  - B Radius of the car's wheel, the area of the brake lining and the radius of the brake drum/disc.
  - C Thickness of the brake drum/disc, the area of the brake linings and the radius of the car's wheel
  - D Radius of the car's wheels, the thickness of the brake drum/disc and the radius of the brake drum.
- 12. One advantage in swinging beam system is that
  - A rolling motion is facilitated
  - B the rate of tyre wear is reduced
  - C compact
  - D flexible.
- 13. One method used to equalize the stress on a leaf spring suspension is to
  - A reduce the length of the leafs for stability reasons.

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15.	If the top of the steering is tilted 2 degrees toward the rear of the vehicle, this is;  A Positive camber  B Negative caster	48. A flywheel ring gear has 144 teeth. Moving the crankshaft through a distance of 12 teeth represents an angle of;  A 80
	C Negative camber D Positive caster	A 8 B 12 <sup>0</sup> C 15 <sup>0</sup> D 30 <sup>0</sup>
ł6.	The brake pedal assembly uses a mechanical lever to  A increase the driver's force on the brake pedal applied to the master cylinder  B increase the distance the brake pedal needs to be depressed by the driver  C decrease the driver's force on the brake pedal applied to the master cylinder	49. In a hydro-pneumatic suspension system, what is the elastic element?  A Oil B Gas C Liquid D Sphere
	D allow for clearance between the brake pedal and the floor when the brakes are applied	50. Which of the configuration of epicyclic gearbox will give a forward and fast output speed?  A Sun gear stationary, ring gear driven and
	The type of stress associated with the propeller shaft under normal vehicle operation is;  A Compressive B Tensile C Shear D Tension	planetary carrier driving  Sungear driving, ring gear driven and planetary carrier stationary  C Sun gear driven, ring gear stationary and planet carrier driving  D Sun gear stationary, ring gear stationary and planet carrier driving

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