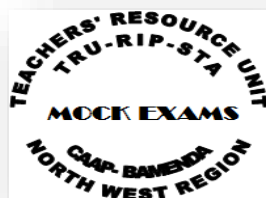


REPUBLIQUE DU CAMEROUN
Paix-Travail-Patrie

MINISTERE DES ENSEIGNEMENTS SECONDAIRES

CELLULE D'APPUI A L'ACTION PEDAGOGIQUE
ANTENNE RÉGIONALE DU NORD OUEST

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REPUBLIC OF CAMEROON
Peace-Work-Fatherland

MINISTRY OF SECONDARY EDUCATION

TEACHERS' RESOURCE UNIT
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MARCH 2026

The Teachers' Resource Unit and the Regional Inspectorate of Pedagogy, in collaboration with NWAPT	SUBJECT CODE NUMBER 0580	PAPER NUMBER 1
GENERAL CERTIFICATE OF EDUCATION REGIONAL MOCK EXAMINATION		
CANDIDATE NAME: CANDIDATE NUMBER: CENTRE NUMBER:	SUBJECT TITLE PHYSICS	
ORDINARY LEVEL		

Time Allowed: One and a half hours
INSTRUCTIONS TO CANDIDATES:

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

1. USE A SOFT HB PENCIL THROUGHOUT THIS 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 "Ordinary level –0580 code and subject title—Physics -Paper 1".
4. Insert the information required in the spaces above.
5. Without opening the booklet, pull out the answer sheet carefully from inside the front cover of this booklet. Take care that you do not crease or fold the answer sheet or make any marks on it other than those asked for in these instructions.
6. Insert the information required in the spaces provided on the answer sheet using your HB pencil:

Candidate Name, Centre Number, Candidate Number, Subject Code Number, and Paper number

How to answer questions in this examination:

7. Answer ALL the 50 questions in this examination. All questions carry equal marks.
8. Non-programmable calculators are allowed.
9. For each question there are 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]
10. Mark only one answer for each question. If you mark more than one answer, you will score zero for that question. If you change your mind about an answer, erase the first mark carefully, and then mark your new answer.
11. Avoid spending much time on any question. If you find a question difficult, move to the next. You can come back to the question later.
12. Do all rough work in this booklet using, where necessary, the blank spaces in the question booklet.
13. **You must not take this booklet and answer sheet out of the examination room. All question booklets and answer sheets will be collected at the end of the examination.**

SECTION I (Forty-Two Questions)

Directions: Each of the questions or incomplete statements in this section is followed by four suggested answers. Select the best answer for each question

- Which of the following pairs of physical quantities consists of both scalar quantities?
A moment and force
B energy and power
C Force and distance
D Velocity and momentum
- Which of the following is a unit of pressure?
A $\text{Kg m}^2 \text{s}^{-1}$
B kg m s^{-2}
C $\text{kg m}^{-1} \text{s}^{-2}$
D $\text{kg m}^{-1} \text{s}$
- An atom is electrically neutral because it has
A more neutrons than electrons
B more protons than neutrons
C same number of protons as neutrons
D same number of protons as electrons
- When you look at the speedometer of a moving car, the quantity you read is
A acceleration
B instantaneous speed
C average speed
D average distance
- Figure 1** shows a uniform beam placed on a pivot. The clockwise moment of the beam in Nm is:

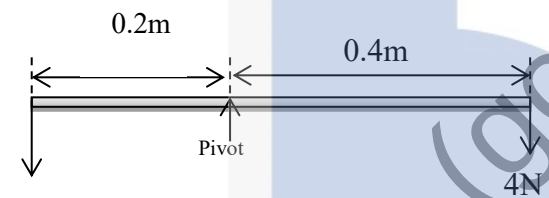


Figure 1

- A: 0.8
B: 2.4
C 1.2
D 1.6

- Silicon (Si) is an example of
A a semiconductor
B a conductor
C an alloy
D an insulator
- Which of the following actions will help increase the sensitivity of a moving coil galvanometer?
A Making the pointer shorter
B making the pointer fatter
C Increasing the diameter of pointer
D increasing the length of the pointer
- A certain radioactive isotope has a half-life of 24 minutes. How long will it take for its activity to drop to $\frac{1}{8}$ of its initial value?
A 12 minutes
B 24 minutes
C 72 minutes
D 96 minutes

- A circuit component which is used to change an alternating current into a direct current is a
A Transistor
B Transformer
C Diode
D Fuse
- The change of state directly from gas to solid without passing through a liquid is called
A deposition
B condensation
C solidification
D sublimation
- A machine raises a load of 5000 N to a height of 6.0 m in 5 s. The power developed by the machine is
A 150000 W
B 166.7 W
C 6000 W
D 4166.7
- Which of the following instruments is used to measure pressure?
A sonometer
B thermometer
C micrometer
D manometer
- The rate of doing work is also called
A efficiency
B power
C energy
D conversion
- The process of adding small amounts of impurities to an intrinsic semiconductor to increase its conductivity is called:
A ionization
B lagging
C insulation
D doping
- Water is suitable for use as a cooling liquid because it
A expands abnormally
B has a high specific heat capacity
C freezes at 0°C
D has a high density
- A ray of light is incident at an angle of 30° from air into a transparent material. If the angle of refraction is found to be 19° , then the refractive index of this material is
A 1.5
B 1.6
C 0.2
D 0.7
- The inner surface of a vacuum flask is always made shiny. This helps to reduce heat losses by
A conduction
B evaporation
C convection
D radiation

18. Which of the following is a unit of power?
 A kWh
 B J/s
 C kJh
 D J
19. When iron is heated, its density decreases. This is because its
 A volume increases
 B volume decreases
 C mass increases
 D mass decreases

20. **Figure 2** shows three resistor connected in a net work

figure 2

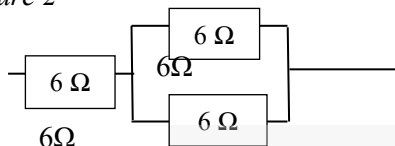


Figure
6Ω

The combined resistance of these resistors is:

- A 3 Ω
 B 6 Ω
 C 9 Ω
 D 12 Ω
21. Which of the following pairs of forces are both non-contact forces?
 A Electrostatic and magnetic
 B Friction and magnetic
 C Tension and gravitational
 D Weight and up-thrust
22. Iodine-131 is a radioactive substance used in the hospital to treat thyroid gland problems. An instruments which can be used to monitor the circulation of this medication in the patient's body is a
 A Stethoscope
 B G-M tube
 C Test tube
 D A cloud chamber
23. Which of the following materials is suitable for use as the core of an electromagnet?
 A Steel
 B Iron
 C Aluminum
 D Zinc
24. A stone is dropped vertically downwards from the top of a tall building. As it falls,
 A both KE and PE increase
 B both KE and PE decrease
 C KE increases while PE decreases
 D PE increase while KE decrease

25. Select the best graph which shows how the displacement (Y) of a car at rest varies with time(X)

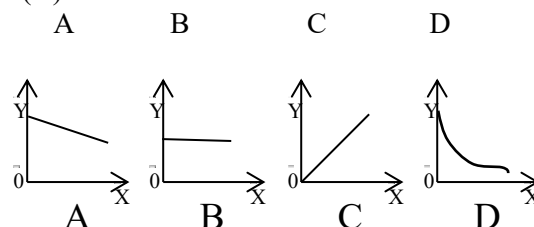


Figure 3

26. The main difference between a clinical thermometer and the laboratory thermometer is that the clinical thermometer has a
 A Narrow bore
 B bulb
 C capillary tube
 D constriction
27. A light bulb is rated 10.0 W. The energy it uses in 5 second is
 A 10J
 B 2.0 J
 C 50 J
 D 0.5J
28. If a sound wave of frequency 40 Hz travels through air at a speed of 320 m/s, then the wavelength of the wave in m is:
 A 0.13
 B 0.8
 C 8
 D 12800
29. A temperature of 45°C converted to kelvin gives:
 A 228 K
 B 298 K
 C 305 K
 D 318 K
30. When a parachutist falling through air attains terminal velocity, then its
 A acceleration becomes zero
 B velocity starts decreasing
 C velocity becomes zero
 D acceleration starts decreasing
31. Which of the following is **NOT** a renewable source of energy?
 A Solar
 B Geothermal
 C Coal
 D Wind
32. An image produced by a concave lens is always:
 A diminished, virtual and upright
 B diminished, real and inverted
 C magnified, real and upright
 D magnified, virtual and inverted

33. A car moving with a velocity of 4 m/s is accelerated uniformly at 2 m/s^2 on a straight level road until it attains a velocity of 30 m/s. How long did the car take to attain this velocity?
- A 7 s
B 13 s
C -13 s
D 240 s
-
34. The main function of a step down transformer is to:
- A change a.c. to d.c.
B change d.c. to a.c.
C step down voltage
D step down current
-
35. "The ratio of the sine of the angle of incidence to the sine of the angle of refraction is constant for a given pair of media". This is a statement of:
- A The law of reflection
B The law of refraction
C Snell's law
D Hooke's law
-
36. When a metal ball of mass 2 kg is raised to a height of 5 m, its gravitational PE is
- A 10 J
B 25 J
C 1000 J
D 100 J
-
37. An object of mass 6 kg moving with a velocity of 2 m/s has a momentum of
- A 3 kgms^{-1}
B 3 kgms^{-2}
C 12 kgms^{-1}
D 12 kgms^{-2}
-
38. An object takes off from rest and accelerates uniformly at 2 m/s^2 until its velocity reaches 10 m/s. The distance covered is
- A 25 m
B 20 m
C 5 m
D 50 m
-
39. Which of the following is an example of a longitudinal wave?
- A Light
B Sound
C Radio
D Water waves
-
40. Radio wave can be received behind obstacles like hills because the waves are easily
- A diffracted
B deflected
C reflected
D refracted
-
41. When a solid object is transported from the earth to the moon at the same temperature, the physical property of the solid that will change is the:
- A weight
B mass
C density
D volume

42. An object is placed 10 cm in front of a plane mirror. How far is the image from the mirror?
- A 5 cm
B 10 cm
C 15 cm
D 20 cm

SECTION II (Eight questions)

Direction: This group of questions deals with practical situations. Each situation is followed by a set of questions. Select the best answer for each question.

Questions 43 – 47

In an attempt to investigate the variation of frequency (f) with the length (l) of a vibrating string students designed the setup shown in figure 4 below.

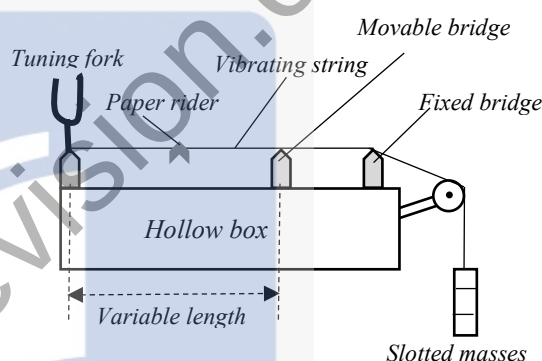


Figure 4

43. The quantity kept constant during the exercise is
- A Length of the string
B Wavelength
C Frequency of vibration
D Mass of the string
-
44. The relationship between frequency and length of a vibrating string is given by
- A $f \propto l^2$
B $f \propto l$
C $f \propto \frac{1}{l}$
D $f \propto \frac{1}{l^2}$
-
45. An important instrument needed for this experiment but not included in the above setup is a
- A Stopwatch
B clapper
C meter rule
D scale balance
-
46. This same setup can be used to investigate the relationship between the frequency (f) with the tension (T) on the string. In this case, the quantity which is kept constant during the exercise is
- A length
B mass
C frequency
D wavelength

47. During the experiment, the vibrating string throws off the paper rider because
- A the frequency of the vibrating string is the same as that of the tuning fork
 - B the frequency of the vibrating string is different from that of the tuning fork
 - C when a node is produced on the string where the paper rider is
 - D when the amplitude of the vibrating string is minimum

Questions 48 – 50

A ray of white light incident on a prism passes through and the resultant spectrum is cast on a screen as shown in **Figure 5** below.

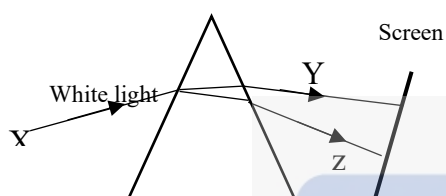


Figure 5

48. The colour represented by the letter Y is
- A Red
 - B Violet
 - C Blue
 - D Orange
-
49. The spectrum obtained is not pure because
- A colours overlap
 - B prism is not pure
 - C colours are separated
 - D the screen is not pure.
-
50. To obtain a pure spectrum, a
- A concave lens is placed between the prism and the screen
 - B convex lens is placed between the prism and the screen
 - C the screen is moved towards the prism
 - D the screen is moved away from the prism

END
GO BACK AND CHECK YOUR WORK

