

Republic of the Philippines  
PROFESSIONAL REGULATION COMMISSION  
Manila

BOARD OF MECHANICAL ENGINEERING

Registered Mechanical Engineer Licensure Examination

Sunday, Jan 20, 2019

07:30 a.m. - 12:30 p.m.

MATHEMATICS AND BASIC ENGINEERING SCIENCES

SET A

INSTRUCTION: Select the correct answer for each of the following questions. Mark only one answer for each item by marking the box corresponding to the letter of your choice on the answer sheet provided.

STRICTLY NO ERASURES ALLOWED. Use pencil No.2 only.

MULTIPLE CHOICE

- Three numbers  $m+2$ ,  $4m - 6$ ,  $3m - 2$  are in arithmetic progression if  $m$  is equal to what value?  
A. 0  
B. 1  
C. 2  
D. 3
- Using the wheel and the axle, a 400 N load can be raised by a force of 50N applied to the rim of the wheel. The radii of the wheel and the axle are 85 cm and 6 cm respectively. Calculate the efficiency of the machine.  
A. 56%  
B. 65 %  
C. 12.5%  
D. 10 %
- The sum of the reciprocals of three numbers in H.P. (harmonic progression) is 12 and the product of these numbers is  $1/48$ . What is the largest number?  
A.  $1/2$   
B.  $1/4$   
C.  $1/6$   
D.  $1/3$
- A machine costing Php 720,000 is estimated to have a life of 10 years. If the annual rate of depreciation is 25%, determine the total depreciation using the constant percentage or declining balance method.  
A. 523,845.34  
B. 679,454.27  
C. 542,437.23  
D. 753,243.33
- What is the geometric mean between - 4 and - 25?  
A. 10  
B. - 10  
C. 16  
D. - 16
- A train weighing 1000 KN is being pulled up a 2% grade. The train's resistance is 5 N/KN. Traveling the distance of 300 m the speed of the train was increased from 6 m/s to 12 m/s. What is the maximum power developed by the locomotive.  
A. 520.4 kW  
B. 432.8 kW  
C. 503.5 kW  
D. 521.7 kW
- There are 15 men in a room shake hands with each other, the total number of handshakes is:  
A. 90  
B. 105  
C. 110  
D. 115
- Which of the following is not an assumption implicit in engineering economic analysis?  
A. The beginning of the year convention is applicable.  
B. There is no inflation now, nor will there be any inflation during the lifetime of the project.

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**A Loxley**



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