

Ekurhuleni North	District Paper – Mathematics Paper 2 Grade 11 Marking Guideline	June 2023
SOLUTION NB: Accept valid alternate solutions. Consistent Accuracy applies to the whole memo.		
QUESTION 1		
1.1	$m_{HM} = \frac{6 - 4}{3 + 1}$ $= \frac{1}{2}$	✓ subs into formula ✓ answer
1.2	$R(x; y) = \left(\frac{3 + 4}{2}; \frac{6 + 1}{2} \right)$ $= \left(\frac{7}{2}; \frac{7}{2} \right)$	✓ Correct Substitution ✓ Answer
1.3	$m_{HM} = m_{AP}$ $\tan \theta = \frac{1}{2}$ $\theta = 26,57^\circ$	✓ $HM \parallel AT$ ✓ Correct substitution ✓ Answer
1.4	R is the midpoint of diagonal AH (Diags of a parm) Let the coordinates of A be $(x; y)$. $\frac{-1 + x}{2} = \frac{7}{2}$ $x = 8$ $\frac{4 + y}{2} = \frac{7}{2}$ $y = 3$ $\therefore A(8; 3)$	$\checkmark \frac{-1+x}{2} = \frac{7}{2}$ $\checkmark 8$ $\checkmark \frac{4+y}{2} = \frac{7}{2}$ $\checkmark 3$
1.5	$m_{AT} = \frac{1}{2} \text{ (parallel lines)}$ $y = \frac{1}{2}x + c$ Sub $T(4; 1)$	 ✓ Sub $T(4; 1)$ ✓ $c = -1$

Mechanical Engineering Paper And Memo Grade 11 June Exam

Chao Zhang



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Engineered Materials Abstracts ,1992-03 *Bibliography of Scientific and Industrial Reports* ,1946 **The Effect of Nuclear Radiation on Structural Metals** Frederic R. Shober,1961 The effect of fast neutron 1 Mev irradiation on the mechanical properties of structural metals and alloys was studied Although the yield strengths and ultimate tensile strengths are increased substantially for most materials the ductility suffers severe decreases This report presents these changes in properties of several structural metals for a number of neutron exposures within the 10×10^0 to the 18^{th} power to 50×10^0 to the 21^{st} power n sq cm range Data summarizing these effects on several classes of materials such as carbon steels low alloy steels stainless steels Zr base alloys ni base alloys Al base alloys and Ta are given Additional data which show the influence of irradiation temperatures and of post irradiation annealing on the radiation induced property changes are also given and discussed Increases as great as 175% in yield strength 100% in ultimate strength and decreases of 80% in total elongation are reported for fast neutron exposures as great as 5×10^0 to the 21^{st} power n sq cm Author *The Journal of the Institution of Engineers, Australia* Institution of Engineers Australia,1965 **Human Factors Engineering Bibliographic Series** ,1940 *Documentation Abstracts* ,1986

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present instructions for using it and provide detailed descriptions of robotic colon and rectal resections

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robotic surgery for the treatment of rectal cancer is an emerging technique that can overcome some of the technical drawbacks posed by conventional laparoscopic approaches improving the scope and effect of radical operations

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dec 10 2020 robotic surgery represents a qualitative leap in surgical instruments and although there is no strong evidence in favor of the use of robotic surgery over laparoscopic or open surgery there is enough evidence to support its use in colorectal surgery with potential advantages for patients

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mar 6 2019 the current role of robotics in colorectal surgery 2019 mar 6 21 3 11 doi 10 1007 s11894 019 0676 7 harith h mushtaq 30840156 10 1007 s11894 019 0676 7 abdominoperineal resection colectomy colon cancer low anterior resection rectal cancer robotic colorectal surgery total mesorectal excision colonic neoplasms surgery

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the use of robotic approach seems to be capable of addressing most of the shortcomings of the standard laparoscopic surgery the technique has proved its safety profile in both colonic and rectal surgery

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feb 25 2021 article original article published 25 february 2021 optimizing outcomes in colorectal surgery cost and clinical analysis of robotic versus laparoscopic approaches to colon resection kevin j hancock v suzanne klimberg omar nunez lopez aakash h gajjar guillermo gomez douglas s tyler laila rashidi

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may 13 2023 robotic surgery provides a three dimensional view of the surgical area allowing for greater precision in rectal surgeries and access to difficult to reach pelvic regions this method utilizes robotics technology which reduces surgical time and speeds up

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sep 3 2021 abstract robotic colorectal surgery has been touted as a possible way to overcome the limitations of laparoscopic surgery and has shown promise in rectal resections thus shifting traditional open surgeons to a minimally invasive approach

the safety efficacy and learning curve have been established for most colorectal applications

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in the field of colon and rectal surgery robotic systems offer clinicians many alternative ways to care for patie clin colon

rectal surg 2013 mar 26 1 39 46 doi 10 1055 s 0033 1333660