

MATHEMATICS T PAPER 3

(One hour 30 minutes)

SMK METHODIST (ACS) IPOH STPM 2014 TRIAL EXAMINATION

Instructions to candidates:

Answer **all** questions in Section A and any **one** question in Section B. Answers are to be written in English.

All necessary working should be shown clearly.

Scientific calculators may be used. Programmable and graphic display calculators are prohibited.

A list of mathematical formulae and statistical tables are provided.

Section A [45 marks]Answer **all** questions in this section

1. At the end of a football league season, the numbers of goals scored by 26 teams in the local league were as follows.

22	23	23	23	24	24	25	26	27	28	28	29	30
31	33	33	34	34	35	35	36	36	37	46	49	49

- Calculate the mean and variance of these data. [3 marks]
 - Find the median and interquartile range. [4 marks]
 - Draw a boxplot to represent the data. [3 marks]
2. There are 20 teachers and 15 lecturers attending a conference. The number of women teachers and that of women lecturers are 12 and 5 respectively. Four participants from this group are selected randomly to lead some sessions of outdoor activities.
- Find the probability that three teachers are selected. [2 marks]
 - Given that two women are selected, find the probability that both of them are teachers. [2 marks]
3. A continuous random variable, X , has probability density function

$$f(x) = \begin{cases} \frac{1}{72}(8x - x^2) & 2 \leq x \leq 8, \\ 0 & \text{otherwise} \end{cases}$$

- Find $F(x)$, the cumulative distribution function of X . [3 marks]
 - Sketch $F(x)$. [2 marks]
 - The median of X is m . Verify that $m \approx 4.42$. [3 marks]
4. A survey conducted in a school found that 136 out of 400 students like Mathematics.
- Find the unbiased estimates of the proportion of students who like Mathematics in the school. Explain why an interval estimate is more informative than a point estimate. [2 marks]
 - A random sample of n students is chosen from the school. If the 95% symmetric confidence interval for the proportion of students who like Mathematics in the school is (0.445, 0.235), find the value of n . [5 marks]
5. Over a long period of time, 20% of all vases made by a particular factory are imperfect and cannot be sold. Find the probability that fewer than 4 vases from a random sample of 10 made by the factory are imperfect. [2 marks]

The factory introduces a new machine for producing vases. To test whether there has been an improvement, each of a random sample of 20 vases made by the new machine is examined. From this sample, 2 vases are found to be imperfect.

Show that this does not provide evidence, at the 5% level of significance, of a reduction in the proportion of imperfect vases. You should show your hypotheses and calculations clearly. [6 marks]

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