

510 | ICSE Last 10 Years Solved Papers

(c) Given : Principal = ₹ 15,000

We know that

$$A = P \left(1 + \frac{r}{100} \right)^n$$

$$\begin{aligned} \text{Amount after 1st year} &= 15,000 \left(1 + \frac{8}{100} \right) \\ &= ₹ 16,200 \end{aligned}$$

$$\text{Principal after repayment} = 16,200 - 6,200 = ₹ 10,000$$

$$\begin{aligned} \text{Amount outstanding at the end of second year} \\ &= 10,000 \left(1 + \frac{10}{100} \right) \\ &= ₹ 11,000 \end{aligned}$$

Question 2.

Ans.

(a) From a pack of 52 playing cards all cards whose numbers are multiples of 3 are removed. A card is now drawn at random.

What is the probability that the card drawn is :

(i) a face card (King, Jack or Queen)

(ii) an even numbered red card ?

(b) Solve the following equation :

[3]

$x - \frac{18}{x} = 6$. Give your answer correct to two significant figures.

[3]

(c) In the given figure O is the centre of the circle. Tangents at A and B meet at C. If $\angle AOC = 30^\circ$, find

(i) $\angle BCO$

(ii) $\angle AOB$

(iii) $\angle APB$

[4]



Solution :

(a) Number of cards which are multiples of 3 = 12

Cards left in the pack = 40

(i) Number of face cards = 12

$$P(\text{face card}) = \frac{12}{40} = \frac{3}{10}$$

Ans.

(ii) Even numbered red cards = 10

$$P(\text{even number red card}) = \frac{10}{40} = \frac{1}{4}$$

Ans.

(b) Let $x^2 - 6x - 18 = 0$
Compare with equation $ax^2 + bx + c = 0$, we get
 $a = 1, b = -6, c = -18$

Now,

$$\begin{aligned} x &= \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \\ &= \frac{6 \pm \sqrt{36 + 72}}{2} \end{aligned}$$

J C Exam Marking Memo Mathematics Paper2 2008

**Anne-Marie Brouwer, Thorsten O.
Zander, Jan B. F. van Erp**



J C Exam Marking Memo Mathematics Paper2 2008:

Using Neurophysiological Signals that Reflect Cognitive or Affective State Anne-Marie Brouwer, Thorsten O. Zander, Jan B. F. van Erp, 2015-07-27 What can we learn from spontaneously occurring brain and other physiological signals about an individual's cognitive and affective state and how can we make use of this information One line of research that is actively involved with this question is Passive Brain Computer Interfaces BCI To date most BCIs are aimed at assisting patients for whom brain signals could form an alternative output channel as opposed to more common human output channels like speech and moving the hands However brain signals possibly in combination with other physiological signals also form an output channel above and beyond the more usual ones they can potentially provide continuous online information about an individual's cognitive and affective state without the need of conscious or effortful communication The provided information could be used in a number of ways Examples include monitoring cognitive workload through EEG and skin conductance for adaptive automation or using ERPs in response to errors to correct for a behavioral response While Passive BCIs make use of online neuro physiological responses and close the interaction cycle between a user and a computer system neuro physiological responses can also be used in an offline fashion Examples of this include detecting amygdala responses for neuromarketing and measuring EEG and pupil dilation as indicators of mental effort for optimizing information systems The described field of applied neuro physiology can strongly benefit from high quality scientific studies that control for confounding factors and use proper comparison conditions Another area of relevance is ethics ranging from dubious product claims acceptance of the technology by the general public privacy of users to possible effects that these kinds of applications may have on society as a whole In this Research Topic we aimed to publish studies of the highest scientific quality that are directed towards applications that utilize spontaneously effortlessly generated neurophysiological signals brain and or other physiological signals reflecting cognitive or affective state We especially welcomed studies that describe specific real world applications demonstrating a significant benefit compared to standard applications We also invited original new kinds of proposed applications in this area as well as comprehensive review articles that point out what is and what is not possible according to scientific standards in this field Finally we welcomed manuscripts on the ethical issues that are involved Connected to the Research Topic was a workshop held on June 6 during the Fifth International Brain Computer Interface Meeting June 3-7 2013 Asilomar California that brought together a diverse group of people who were working in this field We discussed the state of the art and formulated major challenges as reflected in the first paper of the Research Topic

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