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THE OPEN UNIVERSITY OF SRI LANKA

FACULTY OF ENGINEERING TECHNOLOGY

DIPLOMA IN TECHNOLOGY – LEVEL 02/03

FINAL EXAMINATION 2011/2012

MEX2230/MEX3211 – COMMUNICATING ENGINEERING INFORMATION

DATE	:	01st March 2012
TIME	:	1330 HRS – 1730 HRS
DURATION	:	FOUR HOURS

Write your index number clearly ⇨

Read the following instructions carefully before answering The question paper

INSTRUCTIONS

1. *This question paper consists of* ***two sections PART A (5 questions) and PART B (4 questions).***
2. *Answer all questions.* ***PART A will carry 60 marks and PART B will carry 40 marks.***
3. ***Spend at least two and a half (2 ½) hours for PART A and the rest for PART B.***
4. ***Answers should be written or drawn within the space provided under each question in both PART A and PART B.*** *No additional papers should be used for any question.*
5. *Any answers given in separate sheets other than this question paper will not be taken for evaluation.*
6. *You may use drawing instruments (other than drawing board and T-ruler) at your discretion.*
7. ***All sketches must be neatly drawn and proportional in sizes.***
8. *It is extremely important that you do not remove the question paper, or any part of the question paper, from the examination hall.*
9. *Remember to write your index number clearly in the space provided above. If you have not received an index number, write your registration number in the space above. Do not write your NAME.*
10. *If you are in a doubt, consult the supervisor or an invigilator conducting the examination.*

PART – A

(Answer all questions)

Question 01.

Answer the following clearly and briefly:

a) Explain the meaning of the word **'communication'**

b) What are the major elements of a **communication process**?

c) What is understood by **"noise"** in a communicating process?

d) Explain the **advantages and the disadvantages** of an **isometric view** and a **perspective view** when used to communicate the appearance of an object such as a rectangular dining table to a prospective buyer?

e) What are the advantages of **standardizing graphical symbols** in communicating information?

Question 02.

a) Explain clearly the difference between ***data*** and ***information.***

b) What do you mean by the statement '**meaning of *information* is context dependant'?**

c) **Travel information** is one type of information. List four other types that we come across in our day to day life

d) State the **six dominant features** in an information society

Question 03

a) List **five most important particulars** related to the audience, which you would gather *before* you begin to prepare a presentation.

b) List four ***facilities*** you would verify at the venue, well in advance of your presentation explaining how you would conduct your presentation if each of these facilities turn to be unsatisfactory at the time of presentation

c) State the **method of delivery** you normally prefer to use for any presentation, giving your reasons

d) Give **one sentence** you would use for each of the following stages of your presentation:
(i) **Start** (ii) **Announcing a Break** (iii) **Start Discussion** and (iv) **End**

e) Choose an important, interesting and **current technical topic**, stating in a few sentences why you have chosen the topic

Question 04

a) What **sources** would you normally look for, when **gathering information** to prepare a written presentation **(technical report)?**

b) List six most **essential components** that should be contained in any technical report

c) State the difference between ***introduction*** and ***summary*** of a report

d) A **hand-written report with sketched tables and diagrams**, though good in technical content, will not appeal much to a reader. Explain briefly how you would use the **modern computer and other technologies** to enhance the ***appearance*** **of a report**.

Question 05

a) Briefly discuss the advantages of **Arithmetic Mean**.

b) The following table gives the distribution of **1000 tourists** visiting during the month of September 2011. There are **five(5) Thursdays** and **five(5) Fridays** and only **four(4) each of other days in the month of September 2011.** Calculate the **number of tourists visit per day.**

Days	No. of tourist
Sunday	400
Monday	30
Tuesday	80
Wednesday	90
Thursday	50
Friday	100
Saturday	250

Table 01

c) Briefly describe the **features of Standard Deviation.**

d) Find out the **standard deviation** of the following series.

x	1	3	5	7	9	11	13
f	6	10	18	32	16	14	4

PART – B
(Answer all questions)

Question 06

Sketch the spiral of Archimedes and indicate the constructing steps.

1. .....
2. .....
3. .....

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Question 07

The Plan and Front Elevation of a thin cylinder are shown below. Sketch the **End Elevation** and the **Development of the curved surface** of the cylinder.

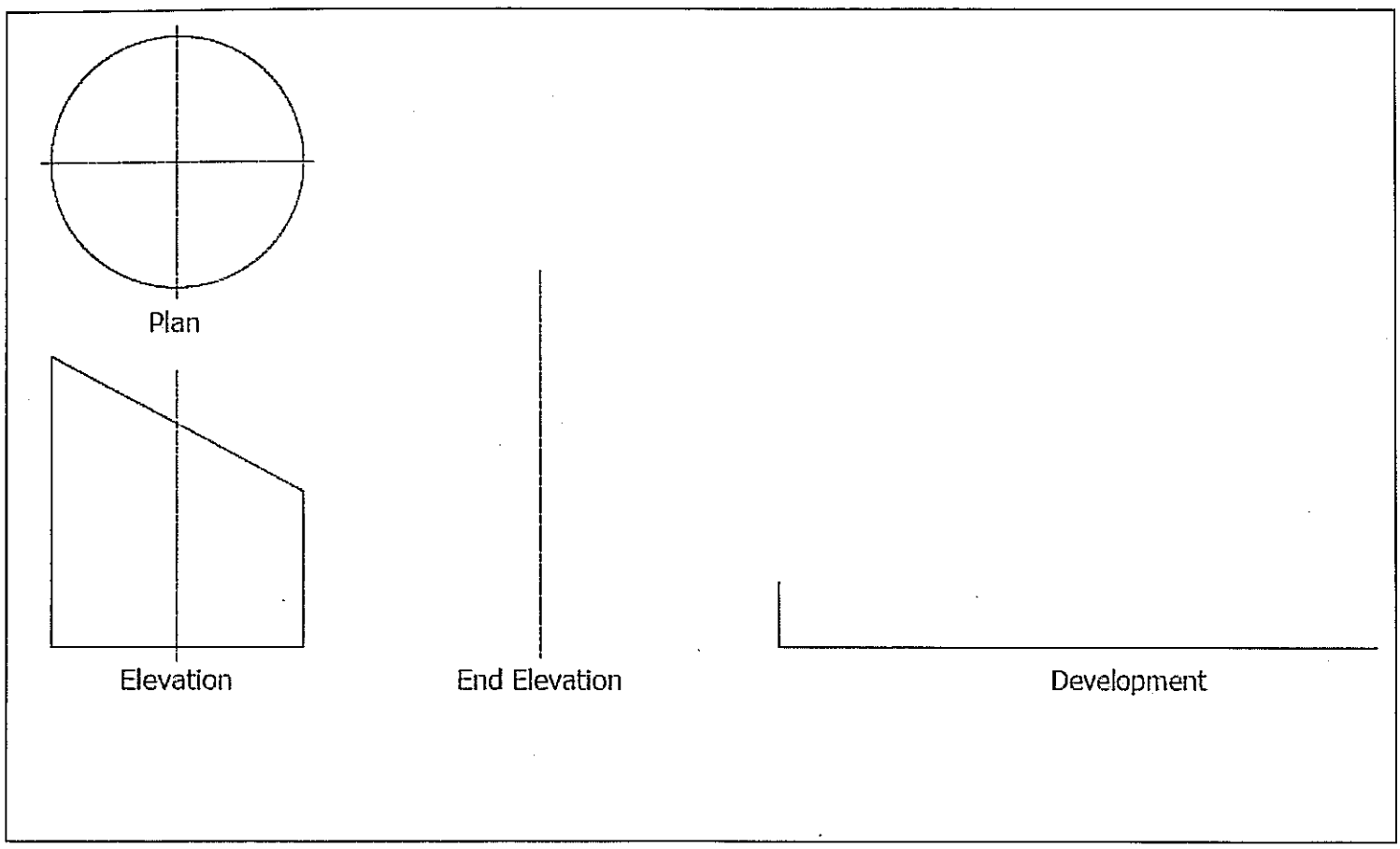


Fig. Q7

Question 08

Fig. Q8 shows a pictorial view of a **VEE-BLOCK**. Sketch the following orthographic views within the space given below **in the first angle projection method**.

(a) **Front Elevation** looking in the direction of arrow "A"

(b) **Plan**

(c) **End Elevation** projected to the right of view (a).

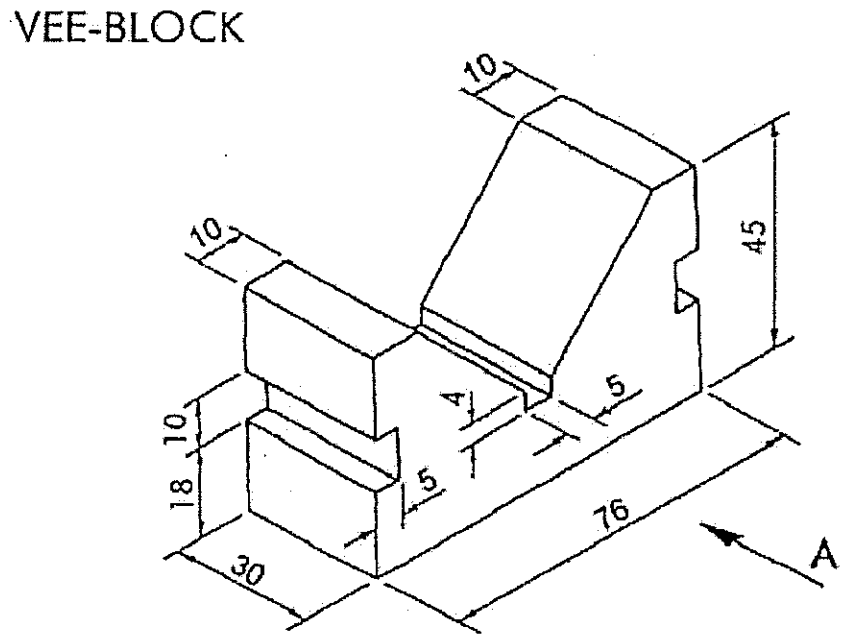


Fig. Q8

Question 09

Orthographic projections of an object are shown below. Sketch the **isometric view** of the object within the cage, taking **near points** as shown by arrows.

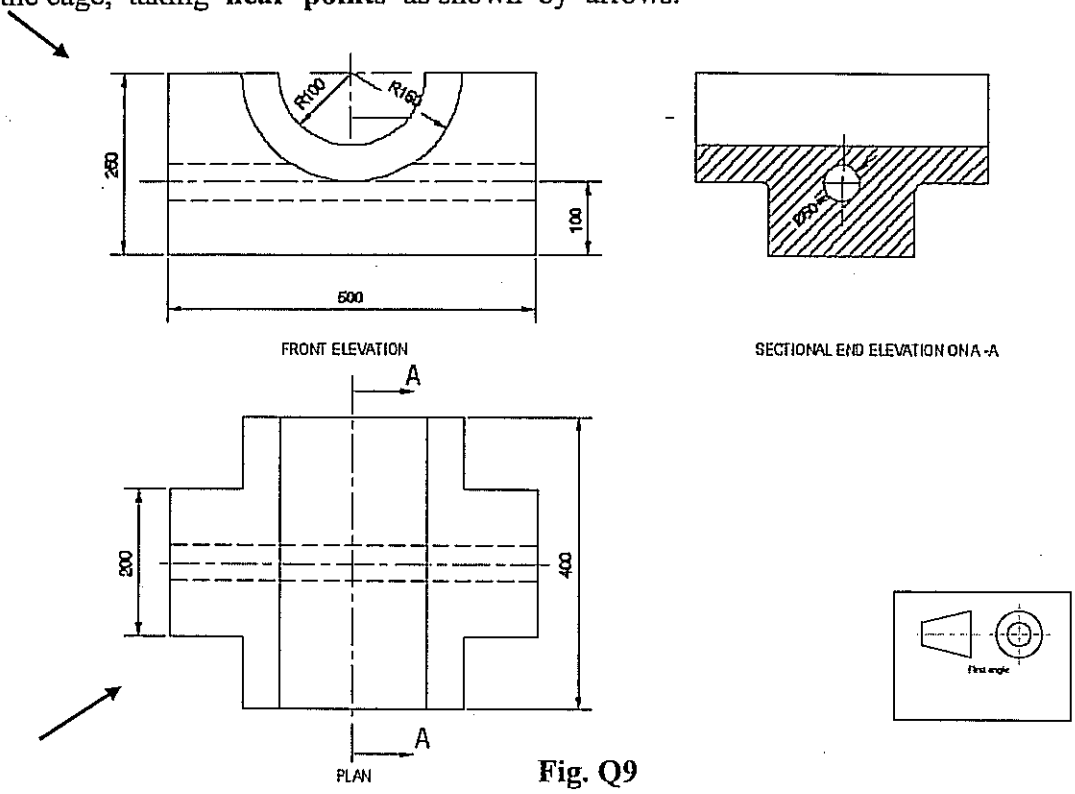


Fig. Q9