



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-17/10/2016

Course: DMAT-231, Applied Mathematics-II

Assignment No: 2

Due date of submission: 10/11/2016

Instructions

1. Write the responses to the assignment in your own handwriting & don't copy from other's assignment.
2. Submit the responses to your HoD within due date.
3. Write your name, programme, and Enrollment no. clearly at the top of the page.
4. Each question's part carries 5 marks.

Q.1

a) Solve the D.E ($D^2 - 3D - 4$) $y = \sin(2x+1)$

b)

- I. If the roots of the auxiliary equation are real and different (2, 3, 6) then find the complete solution of the equation.
- II. If the roots of the auxiliary equation are real and equal (4, 4, 4, 2, -1) then find the complete solution of the equation.

Q.2

a) Find the value of $\int_0^1 \frac{dx}{1+x^2}$ by Simpson's 1/3rd rule if $h = 0.25$.

b) Explain the equation of Tangent and Normal.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-17/10/2016

Course: DME-234, Hydraulic and Hydraulics machine

Assignment No. 2

Due date of submission: 10/11/2016

Instructions

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Q.1

(a) Explain the following hydraulic coefficient:

निम्नलिखित जलीय गुणांक को समझाओ।

(i) Coefficient of contraction (ii) Coefficient of velocity (iii) Coefficient of discharge

(i) संकुचन गुणांक (ii) वेग गुणांक (iii) विसर्जन गुणांक

(b) Explain the Reynold's experiment with neat diagram.

साफ आरेख के साथ रेनोल्ड का प्रयोग समझाओ।

Q.2

(a) Explain the following:

निम्नलिखित को समझाओ।

(i) Channel (ii) Open channel flow (iii) Uniform flow channel

(i) चैनल (ii) खुली चैनल प्रवाह (iii) समान प्रवाह चैनल

(b) Explain the most economical rectangular section with neat diagram.

साफ आरेख के साथ अधिकतम मितव्ययी आयताकार काट समझाओ।



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated.-17/10/2016

Course: DMP-236, Manufacturing Process

Assignment No. 2

Due date of submission: 10/11/2016

Instructions

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Q.1

(a) Write the name of different type of welding process.

(a) वेल्डिंग की प्रक्रिया के विभिन्न प्रकार का नाम लिखें।

(b) Write the name of different type of pattern. Describe split pattern with diagram.

(b) विभिन्न प्रकार पैटर्न के नाम लिखें। आरेख के साथ विभाजन पैटर्न का वर्णन कीजिए।

Q.2

(a) Write the name of different type of operation which are performed on lathe.

Define facing operation with neat sketch.

(a) खराद पर किए जाने वाले विभिन्न प्रकार के संक्रियाओं का वर्णन करें। फेसिंग संक्रिया का सचित्र वर्णन करें।

(b) Write shorty notes on:-

(1) Swaging operation.

(1) स्वेजन

(2) Deep drawing.

(2) डीप ड्राइविंग



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated.-17/10/2016

Course: DME-238, Mechanical Engineering Drawing

Assignment No. 2

Due date of submission: 10/11/2016

Instructions

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Q.1

(a) Draw neat sketch of flange coupling.

(a) फ्लैज युग्मन का स्वच्छ आरेख बनायें।

(b) Draw neat sketch of solid pulley.

(b) ठोस चकरी का स्वच्छ आरेख बनायें।

Q.2

(a) Draw neat sketch of knuckle joint.

(a) नकल जोड का स्वच्छ आरेख बनायें।

(b) Draw neat sketch of bush bearing.

(b) बुश बियरिंग का स्वच्छ आरेख बनायें।



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated.-17/10/2016

Course: DME-239, Computer Application

Assignment No: 2

Due date of submission: 10/11/2016

Instructions

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Q-1 -

(a) What do you mean by the term "network"? Describe the types of networks with appropriate diagrams?

आपके शब्द "नेटवर्क" से क्या मतलब है? उचित चित्र के साथ नेटवर्क के प्रकार का वर्णन कृपया कीजिए?

(b) Why we use Microsoft Power Point? Describe its elements properly?

हम माइक्रोसॉफ्ट पावरपॉइंट का प्रयोग क्यों करते हैं? उसके तत्वों को ठीक से वर्णन कृपया कीजिए?

Q-2 Define the following terms with examples:

- | | | |
|-------|----------------------------------|--------------------------|
| (i) | Microsoft Word | माइक्रोसॉफ्ट वर्ड |
| (ii) | Significance of Operating System | ऑपरेटिंग सिस्टम का महत्व |
| (iii) | Microsoft Access | माइक्रोसॉफ्ट एक्सेस |
| (iv) | Compiler and Interpreter | संकलक और इंटरप्रेटर |