

**B. TECH**  
**(SEM-II) THEORY EXAMINATION 2017-18**  
**ENGINEERING MATHEMATICS - II**

Time: 3 Hours

Total Marks: 70

Note: Attempt all Sections. If require any missing data, then choose suitably.

**SECTION A**

1. Attempt all questions in brief. 2 x 7 = 14
- (a) Determine the differential equation whose set of independent solutions is  $\{e^x, xe^x, x^2e^x\}$ .
- (b) Solve:  $(D+1)^2 y = 2e^{-x}$ .
- (c) Prove that:  $P_n(-x) = (-1)^n P_n(x)$ .
- (d) Find inverse Laplace transform of  $\frac{s+8}{s^2+4s+5}$ .
- (e) If  $L\{F(\sqrt{t})\} = \frac{e^{-1/t}}{s}$ , find  $L\{e^{-t} F(3\sqrt{t})\}$ .
- (f) Solve:  $(D+4D'+5)^2 z = 0$ , where  $D = \frac{\partial}{\partial x}$ ,  $D' = \frac{\partial}{\partial y}$ .
- (g) Classify the equation:  $x_{xx} + 2xz_{xy} + (1-y^2)z_{yy} = 0$ .

**SECTION B**

2. Attempt any three of the following: 7 x 3 = 21
- (a) Solve  $(D^2 - 2D + 4)y = e^x \cos x + \sin x \cos 3x$ .
- (b) Prove that:  $J_{3/2}(x) = \sqrt{\frac{2}{\pi x}} \left[ \left( \frac{3-x^2}{x^2} \right) \sin x - \frac{3 \cos x}{x} \right]$ .
- (c) Draw the graph and find the Laplace transform of the triangular wave function of period  $2\pi$  given by
- $$F(t) = \begin{cases} t, & 0 < t \leq \pi \\ 2\pi - t, & \pi < t < 2\pi \end{cases}$$
- (d) Obtain half range cosine series for  $e^x$  the function  $f(t) = \begin{cases} 2t, & 0 < t < 1 \\ 2(2-t), & 1 < t < 2 \end{cases}$
- (e) Solve by method of separation of variables:  $\frac{\partial w}{\partial t} = \frac{\partial w}{\partial x} - 2w$ ;  $w(x, 0) = 10e^{-x} - 6e^{-4x}$ .

**SECTION C**

3. Attempt any one part of the following: 7 x 1 = 7
- (a) Solve the simultaneous differential equations:
- $$\frac{d^2 x}{dt^2} - 4 \frac{dx}{dt} + 4x = y \text{ and } \frac{d^2 y}{dt^2} + 4 \frac{dy}{dt} + 4y = 25x + 16e^t.$$
- (b) Use variation of parameter method to solve the differential equation  $x^2 y'' + xy' - y = x^2 e^x$ .

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**M Y Dr Gokhale**



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web jul 15 2021 certains des noms de drogues les plus courants pour les stimulants sont les suivants caféine nicotine amphétamines cocaïne 2 déprimeurs les effets de ces drogues déprimeurs incluent la réduction de la sensation de tension ainsi que le soulagement de l'anxiété et la relaxation musculaire

*rapport mondial sur les drogues 2023 united nations office on* - Feb 28 2023

web les jeunes restent le groupe le plus susceptible de faire usage de drogues en 2021 au niveau mondial la prévalence annuelle de l'usage de cannabis chez les jeunes de 15 et 16 ans était de 5,34 contre 4,3 chez les adultes en outre la consommation de drogues est particulièrement nocive pour les jeunes

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web une drogue est un composé chimique biochimique ou naturel capable d'altérer une ou plusieurs activités neuronales et ou de perturber les communications neuronales la consommation de drogues par l'homme afin de modifier ses fonctions physiologiques ou psychiques ses réactions physiologiques et ses états de conscience n'est pas récente

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web on appelle drogue toute substance psychotrope ou psychoactive qui perturbe le fonctionnement du système nerveux central sensations perceptions humeurs sentiments motricité ou qui modifie les états de conscience une drogue est un produit susceptible d entraîner une dépendance physique et ou psychique

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web may 11 2021 les drogues sont des substances qui modifient la manière de percevoir les choses de penser et de se comporter douce ou dure elles présentent toutes des risques pour la santé physique et mentale du consommateur leurs signes de dépendance aussi découverte sommaire définition drogue douce drogue dure liste des drogues