JAN - 2022

Roll No.

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B.Tech. (Agriculture Engineering) / B.Tech. (Automation & Robotics) / B.Tech. (Automobile Engineering) / B.Tech. (Civil Engineering) / B.Tech. (CSE) / B.Tech. (Electrical & Electronics Engineering) / B.Tech. (Electrical Engineering) / B.Tech. (ECE) / B.Tech. (Electronics & Electrical Engineering) / B.Tech. (Mechanical Engineering) / PIT B.Tech CSE / PIT B.Tech ECE (Sem.–1)

MATHEMATICS-I

Subject Code : BTAM-101-18

M.Code : 75353

Date of Examination : 01-02-22

Time : 2 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE question(s), each question carries 12 marks.**

1. a) Verify Cauchy's Mean value theorem for the functions $f(x) = x^3 - 3x^2 + 2x$, $g(x) = x^3 - 5x^2 + 6x$ in the interval (0, 0.5). (4)

   b) Discuss the convergence of the integral $\int_0^4 \frac{1}{x(4-x)}\,dx$. (4)

   c) Find the volume of the solid generated by revolving the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2}$ about the x-axis. (4)

2. a) Evaluate $\lim_{x\to 0} \frac{e^x - e^{-x} - 2\log(1+x)}{x\sin x}$. (6)

   b) Calculate the approximate value of $\sqrt{10}$ to four decimal places by taking the first four terms of an appropriate Taylor's series. (6)

3. a) Let $f(x, y)$ be a function defined as $f(x,y) = \begin{cases} \frac{xy}{x^2+y^2}; & (x,y) \neq (0,0) \\ 0; & (x,y) = (0,0) \end{cases}$.

   Show that $f_x(0, 0)$ and $f_y(0,0)$ exists, although $f(x, y)$ is discontinuous at (0, 0). (6)

   b) A rectangular box, open at the top, is to have a volume of 32 cubic feet. Find the dimensions of the box requiring least material for its construction. (6)

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4. a) Find the area bounded by parabolas $y^2 = 4 - x$ and $y^2 = 4 - 4x$. (6)

b) Evaluate $\int_0^{\infty}\int_0^{x} xe^{-\frac{x^2}{y}}\,dydx$ by changing the order of integration. (6)

5. a) Discuss the convergence / divergence of the series : $\sum\left(1+\frac{1}{\sqrt{n}}\right)^{-\frac{3}{n^2}}$. (6)

b) Discuss the convergence / divergence of the series : (6)

$$x+\frac{2^2x^2}{\lfloor 2}+\frac{3^3x^3}{\lfloor 3}+\frac{4^4x^4}{\lfloor 4}+\frac{5^5x^5}{\lfloor 5}+\ldots\ldots\infty.$$

6. a) Discuss the convergence / divergence of the series : (7)

$$1+\frac{\alpha.\beta}{1.\gamma}x+\frac{\alpha(\alpha+1)\,\beta(\beta+1)}{1.2.\gamma(\gamma+1)}x^2+\frac{\alpha(\alpha+1)(\alpha+2)\,\beta(\beta+1)(\beta+2)}{1.2.3.\gamma(\gamma+1)(\gamma+2)}x^2+\ldots\infty.$$

b) Show that the harmonic series of order p converges for $p > 1$ and diverges for $p \le 1$. (5)

7. a) Compute the inverse of the matrix $\begin{pmatrix} 8 & 4 & 3 \\ 2 & 1 & 1 \\ 1 & 2 & 1 \end{pmatrix}$ by elementary row transformations. (6)

b) For what values of λ and μ do the system of equations $x + y + z = 6$, $x + 2y + 3z = 10$, $x + 2y + \lambda z = \mu$ have (i) No solution (ii) A unique solution. (6)

8. a) Determine the eigen values and corresponding eigen values of the following matrix $\begin{pmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{pmatrix}$. (6)

b) If A and B are symmetric matrices of the same order, then show that AB is symmetric if and only if A and B commute. (6)

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JAN 2022

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Total No. of Questions : 08

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B.Tech. (Artificial Intelligence & Machine Learning / Artificial Intelligence (AI) and Data Science / Artificial Intelligence / Computer Engineering / CSE / Data Science / ECE / IT / Mechanical Engineering)

B.Tech. (CSE) (Artificial Intelligence & Machine Learning / Cyber Security / Data Science / IOT) / CSE (Internet of Things and Cyber Security including Block Chain Technology)

PIT B.Tech Computer Engg. / PIT B.Tech CSE (Sem.–1)

MATHEMATICS-I

Subject Code : BTAM-104-18

M.Code : 75362

Date of Examination : 01-02-22

Time : 2 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE question(s), each question carries 12 marks.**

1. a) Find the volume of the solid obtained by revolving the lemniscates $r^2 = a^2 \cos 2\theta$ about the initial line.

   b) Use Taylor's theorem to express the polynomial $2x^3 + 7x^2 + x + 6$ in the power of $(x-2)$

2. a) Show that $2^{2n-1}\beta(n,m) = \dfrac{\sqrt{\pi}\,\Gamma(n)}{\Gamma\left(n+\frac{1}{2}\right)}$, $n > 0$.

   b) Evaluate $\int_0^a \dfrac{dx}{(a^n - x^n)^{\frac{1}{n}}}$.

3. Find the value of λ for which the equations :

   $(\lambda - 1)x + (3\lambda + 1)y + 2\lambda z = 0,$

   $(\lambda - 1)x + (4\lambda - 2)y + (\lambda + 3)z = 0,$

   $2x + (3\lambda + 1)y + 3(\lambda - 1)z = 0$

   are consistent and find the ratio of x, y, z when λ has the smallest of these values. What happens when λ has the greatest of these values?

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4. a) Use Gauss Jordan method to find the inverse of a matrix $\begin{bmatrix} 2 & 1 & -1 & 2 \\ 1 & 3 & 2 & -3 \\ -1 & 2 & 1 & -1 \\ 2 & -3 & -1 & 4 \end{bmatrix}$.

b) Find the rank of the matrix $\begin{bmatrix} 8 & 1 & 3 & 6 \\ 0 & 3 & 2 & 2 \\ -8 & -1 & -3 & 4 \end{bmatrix}$

5. a) Find all the Eigen values and Eigen vectors of the matrix $A = \begin{bmatrix} -2 & 2 & -3 \\ 2 & 1 & -6 \\ -1 & -2 & 0 \end{bmatrix}$.

b) Find the rank and nullity of the matrix $\begin{bmatrix} 1 & -2 & 2 & 3 & 6 \\ 0 & -1 & -3 & 1 & 1 \\ -2 & 4 & -3 & -6 & 11 \end{bmatrix}$.

6. Determine the coordinate vectors of $p = 4 - 2x + 3x^2$ relative to the following bases.

a) The standard basis for P_2, $S = \{1, x, x^2\}$.

b) The basis for P_2, $A = \{p_1, p_2, p_3\}$, where $p_1 = 2, p_2 = -4x, p_3 = 5x^2 - 1$.

7. a) Find linear transformation $T : R^4 \rightarrow R^3$ whose null space is generated by (0, 1, 2, 3) and (−1, 2, 3, 0)

b) Prove that the subspace of R^3 consisting of triplet (a, b, c) with $c = 0$ is a subspace of R^3, which is isomorphic to R^2.

8. Show that the Matrix $A = \begin{bmatrix} -9 & 4 & 4 \\ -8 & 3 & 4 \\ -16 & 8 & 7 \end{bmatrix}$ is similar to the diagonal matrix. Also find the transforming matrix and the diagonal matrix.

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B.Tech. (Artificial Intelligence & Machine Learning / Artificial Intelligence (AI) and Data Science / Automobile Engineering / Civil Engineering / Data Science / Electrical & Electronics Engineering / Electrical Engineering / ECE / IT / Mechanical Engineering)

B.Tech. (CSE) / (CSE) (Artificial Intelligence & Machine Learning / IOT / Internet of Things and Cyber Security including Block Chain Technology) (Sem.–1)

ENGINEERING GRAPHICS & DESIGN

Subject Code : BTME-101-21

M.Code : 91335

Date of Examination : 12-02-22

Time : 2 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE question(s), each question carries 12 marks.**

1. Draw a scale of 1:50 or of R.F 1/50 to read meters and decimeters and long enough to measure up to 6m. Show 5.7m and 4m 5dm on the scale.
2. Line "AB" 65mm long; has its end "A" both in HP and VP. It is inclined at 45° to the "HP" and 30° to the "VP". Draw its projections when the line is lying in third quadrant.
3. A regular hexagonal thin plate of 45mm side has a central circular hole of 45mm diameter at its center. It is resting on one of its corners in HP. Draw its projections when the plate surface is vertical and inclined to VP at 30°.
4. A right regular triangular prism of base edge 40mm, axis 65mm long is resting on its rectangular face on HP, with axis parallel to both HP and VP. Draw its projections.
5. A right regular hexagonal prism, edge of base 20mm, and height 50 mm has a central circular hole of diameter 20 mm drilled centrally through it, along its axis. Draw its isometric view.
6. Explain with the help of an example the Aligned and Unidirectional system of placement of dimensions.
7. A circular lamina of diameter 49mm is inclined to VP at 42° and perpendicular to HP and it is resting on VP on a point of its circumference. Draw its projections. Also show traces.
8. Point C is 43mm below HP and 55mm behind VP. Draw its projections and find its shortest distance from XY line.

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B.Tech. (CSE) / (CSE) (Artificial Intelligence & Machine Learning / Cyber Security / Data Science / Internet of Things and Cyber Security including Block Chain Technology)

PIT B.Tech Computer Engg. / PIT B.Tech CSE / PIT B.Tech ECE (Sem.–1, 2)

CHEMISTRY-I

Subject Code : BTCH-101-18

M.Code : 75343

Date of Examination : 10-02-22

Time : 2 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE question(s), each question carries 12 marks.**

1. a) Explain quantum mechanical expression for the motion of a particle in a 1-D box. Also give important results from the treatment.

   b) Describe and compare the splitting of d-orbitals under the influence of octahedral and tetrahedral ligand fields. Calculate CFSE value for d8 low spin octahedral and d8 high spin octahedral system.

2. a) Discuss the role of doping on the band structure of solids.

   b) On the basis of MO theory, compare the relative stability of the following species and Indicate their magnetic properties: O_2, O_2 – (Superoxide) and peroxide.

3. a) What is the essential condition for a molecule to be IR active? Find the normal modes of vibrations for a molecule of CO_2. Explain UV-transitions.

   b) What type of nuclei show NMR spectra? How shielded and deshielded protons are represented on TMS scale? Give high resolution HNMR spectrum of ethanol.

4. a) What are the reasons for the deviation of real gases from ideal gas behavior? How were they modified in vander Waal's equation?

   b) Write a detailed note on potential energy surface. Also discuss its application.

5. a) Write short note on :

i) Electrochemical Corrosion

ii) Hot soda lime method

iii) Significance of Ellingham diagram

b) Explain the Nernst equation & calculate the *e.m.f* of the following cell at 298K :

$Cu(s)|Cu\ 2+\ (0.130M)||Ag+(1.0\times10^{-4}\ M)|Ag(s)$

Also calculate the equilibrium constant for the reaction.

$Cu(s)+2\ Ag+(aq)\rightarrow Cu\ 2+\ (aq)+2\ Ag(s)$

6. a) Suppose in an atom electrons are present in three different orbitals 3p, 5d and 5s. Arrange these electrons in there orbitals in increasing order of effective nuclear charge.

b) Give the significance of the following :

i) Fazan's Rules

ii) HSAB principle

iii) Electron affinity

7. a) Explain the terms :

i) Enantiomerism

ii) Mesocompounds

iii) Optical activity

b) How do you assign the configuration of a chirality center using R, S system? Explain with the help of Tartaric acid.

8. a) Discuss the synthesis of a commonly used drug molecule by taking suitable example.

b) Write short notes on the following organic reactions :

i) Hydration of alkene

ii) Ring opening reactions

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BASIC ELECTRICAL ENGINEERING

Subject Code : BTEE-101-18

M.Code : 75339

Date of Examination : 24-01-2022

Time : 2 Hrs. **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE question(s), each question carries 12 marks.**

1. Derive the expressions of RLC series circuit with diagram. Also derive the expressions for phase angle and power.

2. Define Peak Factor and Form Factor. The equation of an alternating current is i= 141.4 sin 314t. What is the rms value of current and frequency?

3. Define resonance. Differentiate between series and parallel resonance. Derive the expression for resonant frequency for parallel LCR circuit.

4. Define ohm's law and give its limitations. Describe about the Thevenin's theorem in detail. What are the conditions to apply Thevenin's theorem. What are limitations?

5. The iron loss and full load copper loss of 100KVA, 6600/400Volts single phase transformer are 600Watts and 900 Watts. Calculate the efficiency at full load and half load at 0.8 power factor lag. Calculate the load at which maximum efficiency is obtained and its magnitude at some power factor.

6. Discuss the construction and working of three-phase squirrel cage induction motor. Write the different applications.

7. Explain the necessity of Earthing in an electrical installation. Also state the points to be earthed in internal/wiring system of a residential building.

8. Write a short note on : a) MCCB b) ELCB

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PROGRAMMING FOR PROBLEM SOLVING

Subject Code : BTPS-101-18

M.Code : 75346

Date of Examination : 27-01-22

Time : 2 Hrs. **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE question(s), each question carries 12 marks.**

1. Write and draw an algorithm and flowchart for finding the greatest among three decimal numbers. also, explain how this problem is transformed into programming code.

2. a) Explain the role of precedence of operators in the execution of an arithmetic expression $a + (bxc) - d(e/f)$.

   b) What is the difference between conditional, consequent branching and loops?

3. Explain the concept of arrays. How they help in programming the real-life problem explain by using the suitable example?

4. Explain the difference between searching and sorting algorithms? Write down algorithms for bubble and selection sorting.

5. What do you mean by Built-in Functions and User-defined Functions? Write down an example for explaining the concept of passing arrays to a function.

6. What is the difference between an infinite loop and recursion? Write down a program for finding a Fibonacci series.

7. Explain the concept of structures and array of structures by taking suitable examples.

8. Write a note on file handling.

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SEMI-CONDUCTOR PHYSICS

Subject Code : BTPH-104-18

M.Code : 75360

Date of Examination : 05-02-22

Time : 2 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE question(s), each question carries 12 marks.**

1. a) Based on Drude-Lorentz theory, derive the expression for electrical conductivity and assuming the classical expression for thermal conductivity derive Wiedemann-Franz law.

   b) Distinguish between direct and indirect band gap.

2. a) Explain the 'Kronig-Penny' model of solids and show that it leads to energy band structure of solids.

   b) What is Bloch theorem?

3. a) Obtain the expression for carrier concentration in p-type semiconductor at low temperature.

   b) Silicon has a conductivity of only 0.0005 $ohm^{-1}\ m^{-1}$ in its pure form. An engineer want it to have conductivity of 200 $ohm^{-1}\ m^{-1}$ and doped it with aluminium to produce p-type semiconductor. Calculate the impurity concentration. Given mobility 0.005 m^2/Vs.

4. a) Write a note on diffusion and drift currents.

   b) Show that fermi level lies in the middle of energy gap for intrinsic semiconductor.

5. a) Why Population inversion is important for Laser action?

   b) What are Stimulated absorption, Spontaneous emission and Stimulated emission? Obtain the relation between different Einstein's coefficients and discuss the result.

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6. Explain the principle, construction and working of a homojunction semiconductor laser with diagram. Discuss the demerits of homojunction Semiconductor laser.

7. Describe the principle and procedure for any one method to measure the wavelength of Laser.

8. a) What is beam spot and divergence of laser? Write down the procedure for the measurement of laser divergence.

   b) A laser has a beam spot of 2 mm and 6 mm at distance of 1 m and 3 m from laser respectively. Calculate divergence of laser.

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B.Tech. (Agriculture Engg. / Food Technology / ME / IT / Artificial Intelligence (AI) and Data Science / Artificial Intelligence / Automation & Robotics / Automobile Engineering / CE / BT / Computer Engg.)

B.Tech. (CSE) / (CSE) (Artificial Intelligence & Machine Learning) / (CSE) (Cyber Security) / (CSE) (Data Science) / CSE (Internet of Things and Cyber Security including Block Chain Technology)

B.Tech. (Electrical & Electronics Engg.) / (Electrical Engg.) / (ECE) / (Electronics & Electrical Engg.)

PIT B.Tech Computer Engg. / PIT B.Tech CSE / PIT B.Tech ECE (Sem.–1, 2)

ENGLISH

Subject Code : BTHU-101-18

M.Code : 75349

Date of Examination : 29-01-22

Time : 2 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE question(s), each question carries 12 marks.**

1. a) Use the following phrases in sentences : Cock and bull story, Tooth and nail, Gain ground, To burn one's boats, Spill the beans, Be on cloud nine

   b) State whether the following sentences are simple, compound or complex :

   i) I know him to be an honest lad.

   ii) This is the problem which cannot be solved.

   iii) He sang but he was not applauded.

   iv) You must apologize, you will miss the train.

   v) He wished that he should do service to his country.

   vi) To my great disappointment he did not come.

2. Write an essay on "*Managing natural wealth for a better life*" in about 500 words.

3. Assuming that you are the sales officer of one of the companies producing water-coolers, draft a sales letter mentioning the special features of your product. Invent the details necessary.

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4. Write a report on the existing communication system in your organization. Include any suggestions for improving it. Invent the details necessary.

5. As the Manager of big departmental store, you have received from one of your customers a letter complaining of incivility and inattention when he visited your store. Draft a reply, expressing regret and promising full investigation

6. Why do employers use a GD as one of the instruments for assessing the suitability of candidates for a job?

7. Discuss various guidelines for making oral presentation. Also write a detailed note on the role of personal appearance in any presentation.

8. **Read the passage carefully and answer the questions that follow :**

Holi celebrations start on the night before Holi with a Holika Dahan where people gather, perform religious rituals in front of the bonfire, and pray that their internal evil be destroyed the way Holika, the sister of the demon king Hiranyakashipu, was killed in the fire. The next morning is celebrated as Rangwali Holi – a free-for-all festival of colours, where people smear each other with colours and drench each other. Water guns and water-filled balloons are also used to play and colour each other. Anyone and everyone is fair game, friend or stranger, rich or poor, man or woman, children and elders. The frolic and fight with colours occurs in the open streets, open parks, outside temples and buildings. Groups carry drums and other musical instruments, go from place to place, sing and dance. People visit family, friends and foes to throw coloured powders on each other; laugh and gossip, then share Holi delicacies, food and drinks. Some customary drinks include bhang (made from cannabis), which is intoxicating. In the evening, after sobering up, people dress up and visit friends and family.

Questions :

a) Why is Holika Dahan performed?

b) i) Which word in the passage means "Traditional"?

ii) Which word or phrase means "not intoxicated" in the passage?

c) What does Holi symbolize?

c) Summarize the passage.

e) Use the following words in sentences :

Delicacies, Customary, Rituals, Frolic

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