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Third Semester B.Sc. Degree Examination, January 2023 First Degree Programme Under CBCSS Physics

Complementary Course for Mathematics PY 1331.1 – OPTICS, MAGNETISM AND ELECTRICITY (2019 Admission onwards)

Time: 3 Hours

Max. Marks: 80

SECTION - A

Answer all the questions. Each carries 1 mark.

- 1. Define bandwidth.
- 2. Define coherent sources.
- 3. What is the use of Fresnel's biprism?
- 4. What is interference in thin film?
- 5. What is wattless current?
- 6. What is the condition of constructive interference?
- 7. What is meant by diffraction of light?
- 8. What is magnetic susceptibility?

- 9. What is diamagnetism?
- 10. What is permanent magnet?

 $(10 \times 1 = 10 \text{ Marks})$

SECTION - B

Answer any eight questions. Each carries 2 marks.

- 11. What is diffraction?
- 12. What is ferromagnetism?
- 13. What are the properties of diamagnetic materials?
- 14. Why paramagnetic substances are those which get weakly magnetised when placed in an external magnetic field?
- 15. Define rms value of an AC.
- 16. What is optical pumping in laser?
- 17. Why Newton's rings are circular?
- 18. Intensities of spectral lines with a grating are much less than those with prism. Why?
- Explain relative permeability.
- 20. Define magnetic flux density (B) and magnetic field intensity (H) and give the relationship.
- 21. What are the disadvantages of step index fiber?
- 22. What is dispersive power of grating?
- 23. What is LCR circuit?
- 24. Explain power factor.

- 25. Write the conditions for constructive and destructive interference.
- 26. Explain population inversion.

 $(8 \times 2 = 16 \text{ Marks})$

SECTION - C

Answer any six questions, Each carries 4 marks.

- 27. Find the radius of 25th Newton's ring if the wavelength is 750 nm and radius of 10 th ring is 0.25 cm.
- 28. A capacitor of capacitance 2 μ F is in an AC circuit of frequency 1000 Hz. If the rms value of the applied emf is 10 V, find the effective current flowing in the circuit.
- 29. Difference between interference and diffraction.
- 30. A plane transmission grating produces fifst order diffraction maximum at 19.5° for light of wavelength 5461 Å. Calculate the number of lines on the grating per unit length.
- Derive the RMS value of an AC circuit.
- 32. A step index fiber has a numerical aperture of 0.15. If the core refractive index is 1.45 and the core diameter is 90 μ m. find the number of modes supported by the fiber with a wavelength of 0.9 μ m.
- 33. Distinguish between ferromagnetism and antiferromagnetism.
- 34. Explain the numerical problems with step index profile.
- 35. The Fraunhoffer diffraction pattern due to a narrow slit, a screen is placed 2 m away from the lens to obtain the pattern. If the slit width is 0.2mm and the first minima lie 5mm on either sides of the central maximum, find the wavelength of light.
- Explain the principle of optical fiber.

- 37. In Newton's rings experiment the diameter of certain order of dark ring is measured to be double that of second ring. What is the order of the ring?
- 38. The volume susceptibility of a magnetic material is 30 x 10 ⁴. Calculate the relative permeability. What is the nature of the substance?

 $(6 \times 4 = 24 \text{ Marks})$

SECTION - D

Answer any two questions. Each carries 15 marks.

- 39. Draw and explain the step index and graded index fiber.
- 40. Describe the phenomenon of Fraunhoffer diffraction at a single slit.
- 41. With necessary theory and schematics describe the Fresnel diffraction at a straight edge.
- 42. State the properties of ferromagnetic materials. Explain with the help of the domain theory and also explain Curie temperature.
- 43. Give the theory of the series resonance (L,C,R in series) circuit. Obtain an expression for the resonance frequency and for the impedance at resonance.
- 44. Discuss the theory of interference in thin transparent film due to reflected light and obtain condition for the intensity to be maximum and minimum.

 $(2 \times 15 = 30 \text{ Marks})$

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Third Semester B.Sc. Degree Examination, January 2023

First Degree Programme under CBCSS

Statistics

Complementary Course for Mathematics

ST 1331.1 - STATISTICAL DISTRIBUTIONS

(2019 Admission onwards)

Time: 3 Hours

Max. Marks: 80

SECTION - A

Answer all questions. one word to maximum of one sentence.

- 2. If mean of the Poisson distribution is 3, its third central moment is —————.
- 3. Variance of Bernoulli distribution is ----
- 4. Define Standard normal distribution.
- 5. The fourth central moment of standard normal distribution is ----
- 6. If $F \sim F(m, n)$, What is the distribution of I/F?
- 7. Define Sampling distribution.
- 8. If X follows a standard normal distribution then X^2 follows ————.
- 9. Define *F* statistic.
- 10. What is the relation between t and F distribution?

 $(10 \times 1 = 10 \text{ Marks})$

SECTION - B (Short Answer)

Answer any eight questions. Each question carries 2 marks.

- 11. If X and Y are independently distributed random variables such that $X \sim B$ (4, 0.5) and $Y \sim B$ (3, 0.5), then obtain the distribution of X + Y.
- 12. If X is distributed according to Poisson with mean 1.5. Find its variance and mode.
- 13. Find the mean of geometric distribution with p.m.f. $f(x) = q^x p$, x = 0, 1, 2,...
- 14. Define Beta distribution first type. If X follows Beta distribution first type what is the distribution of Y = 1 X?
- 15. If $X \sim N$ (22, 2) and $Y \sim N(18, 4)$ and are independent, then find the distribution of X + Y.
- 16. If the mgf of a random variance X is $M_X(t) = e^{6t+t^2}$, find the mean and variance of X.
- 17. Derive the mean and variance of uniform distribution over $(0, \theta)$.
- 18. Define convergence in probability.
- 19. State Lindberg Levy form of Central Limit Theorem.
- 20. State Bernoulli's law of large numbers.
- 21. If X is uniformly distributed with mean 1 and variance 4/3, find P(X < 0).
- 22. **X** is a random variable with mean 5 and variance 3. Find the lower bound to $P \mid X 5 < 3 \mid$.
- 23. How large a sample should be taken from a normal population with mean 10 and S.D. 3, if the sample mean is to lie between 8 and 12 with probability 0.95?
- 24. Obtain the moment generating function of Chi square distribution.
- 25. Distinguish between parameter and statistic.
- 26. Define student's t distribution.

 $(8 \times 2 = 16 \text{ Marks})$

SECTION - C (Short essay)

Answer any six questions. Each question carries 4 marks.

- 27. Obtain mode of Poisson distribution.
- 28. Derive the mean and variance of hypergeometric distribution.
- 29. If $X \sim U(0, 1)$, find the distribution of $Y = -2 \log X$. Identify the distribution.
- 30. State and prove the additive property of gamma distribution.
- 31. If X is an exponential distribution with pdf $f(x) = \theta e^{-\theta x}$, x > 0, $\theta > 0$, Obtain the m.g.f. of X and hence obtain the mean of the distribution.
- 32. Show that exponential distribution posses lack of memory property.
- 33. Show that the sum of independent exponential random variables follows Gamma distribution.
- 34. If X is a normal variate with mean 20 and S.D. 5. Find the probability that
 - (a) $16 \le x \le 22$,
 - (b) $x \ge 23$
 - (c) |x = 20| > 5.
- 35. A random variable X takes the values -1, 1, 3, 5 with probabilities 1/6, 1/6, 1/6 and 1/2 respectively. Find by direct computation $P\{|X-3| \ge 1\}$. Also find an upper bound to this probability by applying Chebychev's inequality.
- 36. Examine whether the weak law of large numbers holds for the sequence $\{X_k\}$ of independent random variables defined as follows.

$$P(X_k = \pm 2^k) = 2^{-(2k+1)}, P(X_k = 0) = -2^{-2k}$$

- 37. State and prove the additive property of Chi square distribution.
- 38. Establish the relation between normal, Chi-square, t and F distribution.

 $(6 \times 4 = 24 \text{ Marks})$

SECTION - D

Answer any two questions. Each question carries 15 marks.

- 39. Derive the recurrence formula for central moment of Binomial distribution and hence discuss its skewness.
- 40. Show, stating the conditions clearly, that Binomial distribution leads to Poisson distribution.
- 41. (a) Derive the moment generating function of standard normal distribution.
 - (b) If $X \sim N(\mu, \sigma)$ distribution, find the quartile deviation of X and also obtain the ratio between quartile deviation and standard deviation.
- 42. (a) State and prove Chebychev's inequality.
 - (b) If X follows a binomial distribution with n = 100 and $p = \frac{1}{2}$, obtain using Chebychev's inequality a lower limit for $P\{|X 50| < 7.5\}$.
- 43. (a) Obtain the sampling distribution for the sample mean from a normal population.
 - (b) A population is known to follow the normal distribution with mean 2 and standard deviation 3. Find the probability that the mean of a sample of size 16 taken from this population will be greater than 2.5
- 44. Fit a binomial distribution to the following data. Also find the theoretical frequencies,

x : 0 1 2 3 4 Total f : 8 32 34 24 5 103

 $(2 \times 15 = 30 \text{ Marks})$

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Third Semester B.Sc. Degree Examination, January 2023

First Degree Programme under CBCSS

Mathematics

Core Course

MM 1341 : ELEMENTARY NUMBER THEORY AND CALCULUS – I (2019 Admission Onwards)

Time: 3 Hours

Max. Marks: 80

SECTION - A

Answer all questions.

- 1. For every positive integer n, find n consecutive integers that are composite numbers.
- 2. Prove that there are infinitely many primes.
- 3. State Dirichlet's theorem.
- 4. State the Pigeonhole principle.
- 5. If $r(t) = t^2 i + e^t j (2 \cos \pi t) k$, find r'(t).
- 6. Prove that a straight line has zero curvature at every point.

- 7. Evaluate: $\int_0^2 r(t) dt$, where $r(t) = 2ti + 3t^2 j$.
- 8. If f is a function of x, y and z, what is the gradient of f?
- 9. State the chain rules for partial derivatives.
- 10. Let $f(x, y) = y^2 e^x + y$. Evaluate f_{xyy} .

 $(10 \times 1 = 10 \text{ Marks})$

SECTION -- B

Answer any eight questions.

- 11. Show that every composite number n has a prime factor $\leq |\sqrt{n}|$.
- 12. Using recursion, evaluate, (18, 30, 60, 73, 132).
- Derive a necessary and sufficient condition for two positive integers to be relatively prime.
- 14. Prove that (a, b) = (a, a b).
- 15. Find the number of positive integers \leq 2076 and divisible by neither four nor five.
- 16. Write a short note on twin primes.
- 17. If r(t) is a differentiable vector valued function in 2-space or 3-space and ||r(t)|| is constant for all t, then show that r(t) and r'(t) are orthogonal vectors for all t.
- 18. State any two rules of integration of vector valued functions.
- 19. State the Newton's laws of universal gravitation.

- 20. Show that the circle of radius a which centred at the origin has constant curvature $\frac{1}{a}$.
- 21. Evaluate the unit tangent vector to the graph of $r(t) = t^2i + t^3j$ at the point where t = 2.
- 22. Estimate an equation for the tangent plane and parametric equations for the normal line to the surface $z = x^2y$ at the point (2, 1, 4).
- 23. Find the directional derivative of $f(x, y, z) = x^2y yz^3 + z$ at (1, -2, 0) in the direction of the vector a = 2i + j 2k.
- 24. Evaluate $f_x(1,3)$ and $f_y(1,3)$ by finding $f_x(x,y)$ and $f_y(x,y)$ where $f(x,y) = 2x^3y^2 + 2y + 4x$.
- 25. Write the steps to find the absolute extrema of a continuous function *f* of two variables on a closed and bounded set *R*.
- 26. Prove that $f(x, y) = x^2 + y^2$ is differentiable at the origin.

 $(8 \times 2 = 16 \text{ Marks})$

SECTION - C

Answer any six questions.

- 27. Prove that there are 3 | n/2 | primes in the range n through n!, where $n \ge 4$.
- 28. Let e denote the highest power of 2 that divides n! and b the number of 1s in the binary representation of n. Then show that n = e + b.
- 29. Show that the gcd of the positive integers a and b is a linear combination of a and b.

- 30. Show that 3, 5 and 7 are the only three consecutive odd integers that are primes.
- 31. Find parametric equations of the tangent line to the circular helix $x = \cos t$, $y = \sin t$, z = t where $t = t_0$, and use that result to find parametric equations for the tangent line at the point $t = \pi$.
- 32. Suppose that a particle moves along a circular helix in 3-space so that its position vector at time $t \operatorname{is} r(t) = (4 \cos \pi t)i + (4 \sin \pi t)j + t k$. Find the distance travelled and the displacement of the particle during time interval $1 \le t \le 5$.
- 33. Find the curvature of the ellipse with vector equation $r = 2\cos t \, i + 2\sin t \, j$, $(0 \le t \le 2\pi)$ at the end points of the major and minor axes.
- 34. Derive Kepler's third law.
- 35. Find the slope of the sphere $x^2 + y^2 + z^2 = 1$ in the y direction at the points $\left(\frac{2}{3}, \frac{1}{3}, \frac{2}{3}\right)$ and $\left(\frac{2}{3}, \frac{1}{3}, -\frac{2}{3}\right)$.
- 36. Verify whether the function $z = e^x \sin y + e^y \cos x$ satisfies the equation $\frac{\partial^2 z}{\partial x^2} + \frac{\partial^2 z}{\partial y^2} = 0.$
- 37. Locate all relative extrema and saddle points of $f(x, y) = 3x^2 2xy + y^2 8y$.
- 38. Use appropriate forms of the chain rule to find $\frac{\partial w}{\partial \rho}$ and $\frac{\partial w}{\partial \theta}$ where $w = x^2 + y^2 z^2$, $x = \rho \sin \phi \cos \theta$, $y = \rho \sin \phi \sin \theta$ and $z = \rho \cos \phi$.

 $(6 \times 4 = 24 \text{ Marks})$

SECTION - D

Answer any two questions.

- 39. (a) Prove that there is no polynomial f(n) with integral coefficients that will produce primes for all integers n.
 - (b) Find the general solution of the LDE 6x + 8y + 12z = 10.
- 40. (a) State and prove the division algorithm.
 - (b) Show that the number of leap years / after 1600 and not exceeding a given year y is given by I = |y/4| |y/100| + |y/400| 388.
- A shell fired from a cannon has a muzzle speed of 800 ft/s. The barrel makes an angle of 45° with the horizontal and, for simplicity, the barrel opening is assumed to be at ground level.
 - (a) Find parametric equations for the shell's trajectory.
 - (b) How high does the shell rise?
 - (c) How far does the shell travel horizontally?
 - (d) What is the speed of the shell at its point of impact with the ground?
- 42. Suppose that a particle moves through 3-space so that its position vector at time t is $r(t) = ti + t^2j + t^3k$.
 - (a) Find the scalar tangential and normal components of acceleration at time t.
 - (b) Find the scalar tangential and normal components of acceleration at time t = 1.
 - (c) Find the vector tangential and normal components of acceleration at time t=1
 - (d) Find the curvature of the path at the point where the particle is located at time t=1

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- 43. (a) A heat seeking particle is located at the point (2, 3) on a flat metal plate whose temperature at a point (x, y) is $T(x, y) = 10 8x^2 2y^2$. Find an equation for the trajectory of the particle if it moves continuously in the direction of maximum temperature increase.
 - (b) The length, width and height of a rectangular box are measured with an error of at most 5%. Use a total differential to estimate the maximum percentage error that results in these quantities are used to calculate the diagonal of the box.
- 44. Find the points on the sphere $x^2 + y^2 + z^2 = 36$ that are closest to and farthest from the point (1, 2, 2).

 $(2 \times 15 = 30 \text{ Marks})$

- 43. (a) A heat seeking particle is located at the point (2, 3) on a flat metal plate whose temperature at a point (x, y) is $T(x, y) = 10 8x^2 2y^2$. Find an equation for the trajectory of the particle if it moves continuously in the direction of maximum temperature increase.
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 $(2 \times 15 = 30 \text{ Marks})$

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Third Semester B.A./B.Sc. Degree Examination, January 2023 First Degree Programme under CBCSS Language Course – Additional Language – Hindi

HN 1311.1 – HINDI NATAK, VYAKARAN TATHA ANUVAD (2020 Admission onwards)

Time : 3 Hours Max. Marks : 80

- l. एक या दो वाक्यों में उत्तर लिखिए।
- 1. सकुबाई के पति का नाम क्या है और वह क्या काम करता था?
- 2. बाबा और वासंती सकुबाई और माँ के साथ बंबई क्यों नहीं गए?
- सकुबाई के मेम साब और साब के बीच झगड़ा होने की क्या वजह थी?
- 4. शहनाज़ के पति की मृत्यु कैसे हुई?
- 5. पुलिस ने सकुबाई की माँ को पुलिस थाना ले जाने का निर्देश क्यों दिया?
- 6. अन्वय से क्या तात्पर्य है?
- 7. वर्ण की परिभाषा देकर उसके भेदों के नाम लिखिए।
- अपादान कारक का चिह्न क्या है?
- 9. शुद्ध कीजिए 'यह आदमी को किसने बुलाया'?
- 10. स्वर संधि का उदाहरण लिखिए।

 $(10 \times 1 = 10 \text{ Marks})$

- II. किन्हीं आठ प्रश्नों के लघु उत्तर (करीब 50 शब्दों में) लिखिए:-
- 11. छोटे मामा के दुर्व्यवहार पर सकुबाई की माँ की प्रतिक्रिया क्या थी?
- 12. सुमन का परिचय दीजिए।
- 13. 'सकुबाई' नाटक में लड़के और लड़की के भेदभाव की समस्या पर कैमे प्रकाश डाला गया है?
- 14. ''गरीब के बीमार होने से अच्छा है उसका मर जाना'' सकुबाई ऐसा क्यों सोचती है?
- 15. हसैन मामा कौन है? उसने सकुबाई के परिवार की मदद कैसे की?
- 16. साइली अपनी कविता के माध्यम से कौन सा संदेश सामने रखती है?
- 17. 'सकुबाई' नाटक की भाषा-शैली पर विचार कीजिए।
- 18. सकुबाई के पित का बंबई छोड़कर गाँव जाने के पीछे क्या कारण था?
- 19. समुच्चयबोधक अव्यय से क्या तात्पर्य है? सोदाहरण समझाडए।
- 20. नामधातु क्रिया और अनुकरणात्मक क्रिया पर प्रकाश डालिए।
- 21. वाच्य बदलिए -
 - (a) रमा गीत गाती है।
 - (b) मैं बोल नहीं सकता।
- 22. वर्तमानकाल किसे कहते है? उसके भेद क्या-क्या हैं?
- 23. उपसर्ग और प्रत्यय पर प्रकाश डालिए।
- 24. समास की परिभाषा देकर उसके भेदों का संक्षिप्त परिचय दीजिए।
- 25. वाक्य रचना में पदक्रम से संबंधित क्या-क्या नियम हैं?
- 26. अर्थ के आधार पर वाक्य के कितने भेद हैं? वे क्या-क्या हैं? सोदाहरण लिखिए।

 $(8 \times 2 = 16 \text{ Marks})$

- III. किन्हीं छः प्रश्नों के उत्तर (करीब 120 शब्दों में) लिखिए:-
- 27. सकुबाई के परिवार का वर्णन कीजिए।
- 28. सकुबाई को मेमसाब के घर में राज़ क्या-क्या काम करना पड़ता है?
- 29. वासंती की मृत्यु के बारे में सकुबाई की क्या-क्या यादें रही हैं?
- 30. ''हम लोग दिन रात मेहनत करते हैं। मेहनत करते-करते बूढ़े हो जाते हैं.... और मर जाते हैं। न कोई हमें पूछता है न याद करता'' – सप्रसंग व्याख्या कीजिए।
- 31. शहनाज़ के बारे में सकुबाई की क्या राय गही है? वह उसका आदर सम्मान क्यों करती है?
- 32. पूजा की अंगूठी कैसे गायब हुई और वह कैसे वापस मिली?
- 33. 'ने' प्रत्यय के प्रयोग से संबंधित नियम लिखिए।
- 34. खंडवाक्य के भेद-उपभेद पर सविस्तार प्रकाश डालिए।
- 35. सर्वनाम की परिभाषा लिखकर उसके विभिन्न भेदों का परिचय दीजिए।
- 36. हिंदी में अप्राणिवाचक शब्दों के लिंग निर्णय से संबंधित क्या-क्या नियम हैं?
- 37. संज्ञा की परिभाषा लिखकर उसके मुख्य भेदों पर प्रकाश डालिए।
- 38. अर्थ की दृष्टि से सहायक क्रियाओं के कितने भेद हैं? प्रत्येक का परिचय दीजिए।

 $(6 \times 4 = 24 \text{ Marks})$

- IV. किन्हीं दो प्रश्नों के उत्तर (करीब 250 शब्दों में) लिखिए:-
- 39. सकुबाई के माध्यम से नाटककार ने नौकरानियों के जीवन यथार्थ को सामने रखा है। समर्थन कीजिए।
- 40. सकुबाई नाटक में अभिव्यक्त विभिन्न समस्याओं की चर्चा कीजिए।
- विशेषण की परिभाषा लिखते हुए उसके भेदों पर प्रकाश डालिए।
- 42. विभिन्न आधारों पर शब्दों के वर्गीकरण को समझाइए।

43. हिन्दी में अनुवाद कीजिए।

Scholars of ancient History are of opinion that India had trade relations with foreign countries even before Christ. According to some scholars, the renowned Sanskrit poet Kalidasa flourished one hundred years before Christ. From the evidence of his world famous drama 'Abhijnanashakunthala', we come to know that India imported silk from China. Our export trade in those old days was fetching enormous wealth of gold and silver. It is why India was known to the foreigners as 'a bird of gold' exporting cotton cloths to countries like Persia, Arabia and Egypt. When the English people came here, they found that our people could prepare the finest linen in the world.

44. सक्बाई का चरित्र चित्रण कीजिए।

 $(2 \times 15 = 30 \text{ Marks})$

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(Pages: 4)

Reg. N	ΥÇ	. :	:	•••	••	•••	• •	••	•••	•••	•••	• •	٠.	.	• • •	
Name	:					•••					,					

Third Semester B.A./B.Sc. Degree Examination, January 2023 First Degree Programme under CBCSS Language Course VII – Additional Language III – Malayalam

ML 1311.1 : ദൃശൃകലാസാഹിത്യം

(2019-2020 Admission)

Time: 3 Hours

Max. Marks: 80

PART A

ഒരു വാക്കിലോ ഒറ്റ വാചകത്തിലോ ഉത്തരമെഴുതുക.

- 1. കാന്താരതാരകം ഏത് കൃതിയുടെ വ്യാഖ്യാനമാണ്?
- 2. ബൈസിക്കിൾ തീവ്സ് ഏത് ചലച്ചിത്ര പ്രസ്ഥാനത്തെ അടയാളപ്പെടുത്തുന്ന സിനിമയാണ്.
- 3. 'പെരുമ്പറ' ആരുടെ കൃതിയാണ്?
- 4. ജി. ശങ്കരപ്പിള്ള രചിച്ച രണ്ട് നാടകങ്ങളുടെ പേരെഴുതുക.
- ശകുന്തളയ്ക്ക് പ്രിയമുള്ള രണ്ട് സഖിമാർ ആരെല്ലാമായിരുന്നു?
- 6. കുഞ്ചൻ നമ്പ്യാർ എഴുതിയ ഒരു ഓട്ടൻതുള്ളൽ കൃതിയുടെ പേരെഴുതുക.
- 7. അതിദുഃഖകാരണമിന്നാരാമ സഞ്ചരണം ആർക്കാണ് ആരാമ സഞ്ചരണം ദുഃഖമായി മാറിയത്?

- 8. 'രാവുണ്ണി' ഏത് സാഹിത്യ വിഭാഗത്തിൽപ്പെടുന്ന കൃതിയാണ്?
- 9. മിന്നൽക്കൊടിയിറങ്ങി മന്നിലേ വരികയോ? ആരുടെ വരവിനെക്കുറിച്ചാണ് സൂചന?
- 10. ഗുരുകടാക്ഷ പരമഭാഗ്യമുള്ളവ-നൊരു ദുരാധി വരികയില്ല മന്നവാ - ആർക്കാണ് ഗുരുകടാക്ഷ പരമഭാഗ്യമുള്ളതായി പറയുന്നത് ?

 $(10 \times 1 = 10 \text{ Marks})$

PART B

ഒരു ഖണ്ഡികയിൽ ഏതെങ്കിലും എട്ടു ചോദ്യത്തിന് ഉത്തരമെഴുതുക.

- 11. 'നിന്റെ കുഞ്ഞോമന നമ്പ്യാരോടു ചെന്നുപറ രാവുണ്ണി തോറ്റിട്ടില്ലെന്ന് രാവുണ്ണി ഇങ്ങനെ പറയാനിടയായ സാഹചര്യമെന്ത്?
- 12. ''ബന്ധനം ചെയ്യേണ്ട നീ മാം ബന്ധുവത്രെ തവ ഞാൻ'' - ആരുടെ വാക്കുകൾ? സന്ദർഭമേത്?
- 13. ദുർവ്വാസാവ് മഹർഷി ശകുന്തളയെ ശപിക്കാനിടയായ സാഹചര്യമെന്ത്?
- 14. ഓട്ടൻതുള്ളലിനെ പരിചയപ്പെടുത്തുക.
- 15. അന്റോണിയോ റിക്കി മോഷ്ടാവായ സാഹചര്യം വിശദീകരിക്കുക.
- 16. ഓട്ടൻ ദുര്യോധനനോടു പറഞ്ഞ കൗന്തേയ വിശേഷങ്ങൾ എന്തെല്ലാമായിരുന്നു?
- 17. വിഷ്ണു രമയ്ക്ക് നിശയ്ക്ക് ശശാങ്ക നുമക്കു ഹരൻ; നളനോർക്കിൽ നിനക്കും ആരെക്കുറിച്ചാണ് സൂചിതം?
- 18. ഏ.ആർ. രാജരാജവർമ്മ കുറിപ്പെഴുതുക.
- 19. ഇനിയൊരടി നടന്നാൽ കിട്ടുമേ കൈക്കലെന്നും പ്രതിപദമപി തോന്നുമാറു മന്ദം നടന്നു - ആര്? എപ്പോൾ?

- 20. "ആ വിളക്കും മാഞ്ഞു. നവഖലീ! നവഖലീ! സബർമതി ദൂരെയാണ്. ദൂരെ. വളരെ ദൂരെ" ശാന്തി ഏത് സന്ദർഭത്തിലാണ് ഇങ്ങനെ പറയുന്നത്?
- 21. കൗന്തേയന്മാരുടെ വിശേഷങ്ങളറിഞ്ഞ് അസ്വസ്ഥനായ ദുര്യോധനനെ കർണ്ണൻ സമാധാനിപ്പിച്ചത് എവ്വിധമായിരുന്നു?
- 22. ഭർത്യഗൃഹത്തിലേക്ക് യാത്രയാകുന്ന ശകുന്തളയെ താപസിമാർ അനുഗ്രഹിച്ചതെങ്ങനെ?
- നല്ലതു നല്ലതിനോടു ചേരേണം തവ വല്ലഭനപരൻ തുല്യൻ നഹി നൂനം - വ്യാഖ്യാനിക്കുക.
- 24. ഏകാങ്കനാടകങ്ങളുടെ പ്രത്യേകതകൾ വിവരിക്കുക.
- 25. ''വേണ്ട, ഒടിഞ്ഞത് ഒടിഞ്ഞതായിരിക്കട്ടെ. ഏച്ചുകെട്ടിയാൽ മുഴച്ചിരിക്കും'' സന്ദർഭം വിവരിക്കുക.
- 26. 'രാവുണ്ണി' എന്ന നാടകത്തിലെ രാവുണ്ണി എന്ന കഥാപാത്രത്തെ പരിചയപ്പെടുത്തുക. • (8 × 2 = 16 Marks)

PART C

ഒരു പുറത്തിൽ കവിയാതെ ഏതെങ്കിലും **ആറ്** ചോദ്യത്തിന് ഉത്തരമെഴുതുക.

- 27. നളചരിതം അട്ടക്കഥയുടെ സവിശേഷതകൾ എന്തെല്ലാം?
- 28. ഇറ്റാലിയൻ നിയോറിയലിസ്റ്റിക് സിനിമയുടെ മുദ്രകൾ ബൈസിക്കിൾ തീവ്സിൽ പ്രതിഫലിക്കുന്നതെങ്ങനെയെന്ന് വിവരിക്കുക.
- 29. ഒരു തികഞ്ഞ ഗാന്ധിശിഷ്യനാണ് വേണു ചർച്ച ചെയ്യുക.
- 30. ചൂഷിതരാകുന്ന അടിസ്ഥാനവർഗ്ഗം അറിയാതെ ചൂഷിതരാവുകയും കടത്തിനടിമപ്പെടുകയും ചെയ്യുന്ന അവസ്ഥയാണ് രാവുണ്ണിയിൽ അവതരിക്കപ്പെടുന്നത് - പരിശോധിക്കുക.
- 31. കഥകളി വേഷങ്ങളെക്കുറിച്ചും അവതരണത്തെക്കുറിച്ചും കുറിപ്പെഴുതുക.
- 32. ''അർണ്ണവം തന്നിലല്ലോ നിമ്നഗ ചേർന്നു ഞായം അന്യഥാ വരുത്തുവാൻ കുന്നു മുതിർന്നീടുമോ?'' - സൂചിതം വിശദീകരിക്കുക.

- 33. ദാരിദ്ര്യവും നിസ്സഹായതയും മനുഷ്യരെ ചെന്നെത്തിക്കുന്ന സംഘർഷങ്ങൾ ബൈസിക്കിൾ തീവ്സിനെ അടിസ്ഥാനമാക്കി വിശദീകരിക്കുക.
- 34. മനുഷ്യനും പ്രകൃതിയും തമ്മിൽ ഗാഢമായി ലയിച്ചു ചേരുന്ന ദൃശ്യങ്ങൾ മലയാളശാകുന്നളം നാലാമങ്കത്തിൽ ഏ.ആർ. അടയാളപ്പെടുത്തുന്നുണ്ട്. പ്രസ്താവന പരിശോധിക്കുക.
- 35. ജി. ശങ്കരപ്പിള്ളയുടെ നാടകങ്ങൾ കുറിപ്പെഴുതുക.
- 36. രാവുണ്ണി എന്ന നാടകത്തെ അടിസ്ഥാനമാക്കി പി.എം. താജിന്റെ നാടകങ്ങളുടെ സവിശേഷതകൾ വിവരിക്കുക.
- 37. അച്ഛനും മകനും തമ്മിലുള്ള അനിതരസാധാരണമായ ഹൃദയബന്ധത്തിന്റെ ആഖ്യാനമായി ബൈസിക്കിൾ തീവ്സ് മാറുന്നുണ്ട് - പരിശോധിക്കുക.
- 38. നമ്പ്യാർകൃതികളുടെ സവിശേഷതകളെ ഘോഷയാത്ര മുൻനിർത്തി വിശദീകരിക്കുക.

 $(6 \times 4 = 24 \text{ Marks})$

PART D

ഏതെങ്കിലും രണ്ട് ചോദ്യത്തിന് മൂന്നു പുറത്തിൽ കവിയാതെ ഉത്തരമെഴുതുക.

- 39. രണ്ടാം ലോകമഹായുദ്ധം തകർത്തു കളഞ്ഞ യൂറോപ്യൻ ജീവിതത്തിന്റെ അടയാളങ്ങൾ ബൈസിക്കിൾ തീവ്സിനെ അടിസ്ഥാനപ്പെടുത്തി വിശകലനം ചെയ്യുക.
- **40**. മലയാളത്തിലെ ഏറ്റവും വലിയ ജനകീയകവി എന്ന ബഹുമതി നമ്പ്യാർക്കുള്ളതാണ് പ്രസ്താവനയുടെ സാധുത പരിശോധിക്കുക.
- 41. ആട്ടക്കഥാ സാഹിത്യത്തിലെ ഉത്തമ കൃതിയാണ് നളചരിതം അപഗ്രഥിക്കുക.
- 42. മലയാള നാടക ചരിത്രത്തിൽ ശ്രദ്ധേയമായ സംഭാവനകൾ നൽകിയ നാടകപ്രവർത്തകനാണ് ജി. ശങ്കരപ്പിള്ള - ചർച്ച ചെയ്യുക.
- 43. മലയാള ശാകുന്തളം നാലാമങ്കത്തിന് ഒരാസ്വാദനക്കുറിപ്പ് തയ്യാറാക്കുക.
- 44. മലയാളത്തിലെ കരുത്തുറ്റ രാഷ്ട്രീയ നാടകങ്ങളിലൊന്നാണ് പി.എം. താജിന്റെ രാവുണ്ണി ചർച്ച ചെയ്യുക.

 $(2 \times 15 = 30 \text{ Marks})$

P - 3561

(Pages : 18)

Reg. No. :	•
Name :	
Third Semester B.A /B.Sc.	Degree Examination, Janua

First Degree Programme Under CBCSS

Language Course - English

EN 1311.1/EN 1311.3 : ENGLISH FOR CAREER

(Common for B.A./B.Sc. & Career Related Group 2(a))

	(2019 Admission Onwards)		
Tim	ne : 3 Hours	Max. Mark	s:80
L.	Answer all the following questions. Follow the instructions given wherever needed.	in the bra	ickets
1.	The correct spelling of the word 'biscut' is ———.	•	
2.	The word that is the antonym of "callous" is ————		
3.	Give a synonym for the word 'deceptive'.		
4.	What is (breed) in the bone will not wear or (Use the correct tense form of the verb in brackets)	it of the	flesh.
5.	The adjective form of reluctance is ———.		
6. ·	The child, thinking all was safe, ————— (attempt) to (Use the correct tense form of the verb in brackets)	cross the	road.
7	The word 'intricate' is synonym for ————.		

	_	
-	<u></u>	

8.	I'm having some trouble work out the solution to this	equation.				
	(Underline the error)					
9.	Mr. Pritchard has been to Scotland recently, ———— (Complete the sentence with a question tag)	?				
10.	They've ———— the meeting. (Use the approp	They've ———— the meeting. (Use the appropriate phrasal verb)				
	(a) Called out					
	(b) Called in					
	(c) Called by					
	(d) Called off	(10 × 1 = 10 Marks				
11.	Answer any eight of the following questions.					
11.	Provide one-word substitutes for any two of the phrases :					
	(a) A number of fish swimming together					
	(b) Easily set on fire					
	(c) In a timely manner					
	(d) Protected against diseases					
12.	Give the antonyms of two of the following words:					
	(a) genuine					
	(b) coarse					
	(c) boisterous					
13.	Make sentences of your own with any two of the follo	owing phrasal verbs :				
	(a) clamp down on					
	(b) fall through					
	(c) make up					

(d) stick up for

14.	Choose the correct option from those given in the brackets :				
	(a) The four men ———— towards us. (is walking/are walking).				
	(b) The old woman ———— clothes for a living. (makes/make)				
15.	Fill in the blanks using a collective noun from those given below:				
	(pack, deck, herd, chest, team)				
	(a) He hid this secret diary in a ———— of drawers in his room.				
	(b) I spotted a ———— of wolves at the sanctuary.				
16.	Use the correct tense of the verb in the bracket :				
	(a) We ——— (has live) here for ten years.				
	(b) I ———— (receive) his letter a week ago.				
17.	Fill in the blanks using the suitable degree of the adjective given in the brackets :				
	(a) Lead is — than other metals. (heavy)				
	(b) The tiger is the ———— of all animals. (fierce)				
	Correct the errors in the words given in italics.				
18.	(a) It is recommendable that you charge the mobile phone before first use.				
	(b) Kindly note our address for all farther communication.				
19.	(a) She vested all her time in chatting and did not find the time to complete he work.				
	(b) In case of a land dispute, the officials will determine how the property is to be dividend.				
20.	Fill in the blanks with suitable words from those given in brackets :				
	(obtain, assimilate, perennial, develop)				
	It is your duty to train and ——————————————————————————————————				

21.	Choose the correct option from the brackets :	
	(a) Eight dollars — — — the price of a ticket. (is/are)	
	(b) I ———— be honoured to attend the function. (shall/would)	
22.	Fill in the blanks with the appropriate word from the brackets :	
	(before, quite, never, well, once)	
	(a) These mangoes are ——— ripe.	
	(b) He ——— met me in Cairo.	
23.	Use the correct tense of the verb in the brackets:	
	(a) The tempest ———— the ship ashore. (blow)	
	(b) ———— over the fence, the thief escaped. (jump)	
	Read the paragraph and answer the question given below:	
24.	The National Institute of Oceanography (NIO) in Goa developed a real-time reporting and Internet accessible coastal sea-level monitoring system which has been operational since 2005. The gauge uses a cellular modem to put on the Internet real-time sea-level data. By using a cellular phone network, coastal sea-level changes are continuously updated on to a web-server. The sea-level	

(a) What is the function of the NIO's gauge?

and beach tourism centres.

(b) Comment on an additional benefit of such gauges.

gauge website can be made available to television channels to broadcast real-time visualisation of the coastal sea level, particularly during oceanic hazards such as storm surges or a tsunami. A network of such gauges along the coast and the islands that lie on either side of the mainland would provide data to disaster management agencies to disseminate warnings to coastal communities

- 25. A sanctuary may be defined as a place where Man is passive and the rest of Nature active. Till quite recently Nature had her own sanctuaries, where man either did not go at all or only as a tool-using animal in comparatively small numbers. But now, in this machinery age, there is no place left where man cannot go with overwhelming forces at his command. He can strangle to death all the nobler wild life in the world today. Tomorrow he certainly will have done so, unless he exercises due foresight and self-control in the meantime.
 - (a) What predictions do the author make regarding the fate of sanctuaries?
 - (b) Identify the word in the passage which means the following : the ability to predict what will happen or be needed in the future?
- 26. The first and most important rule of Legitimate or popular government, that is to say, of government whose object is the good of the people, is therefore, as I have observed, to follow in everything the general will. But to follow this will it is necessary to know it, and above all to distinguish it from the particular will, beginning with one's self: this distinction is always very difficult to make, and only the most sublime virtue can afford sufficient illumination for it, As, in order to will, it is necessary to be free, a difficulty no less great than the former arises that of preserving at once the public liberty and the authority of government.
 - (a) How does the author describe a legitimate or popular government?
 - (b) What is the one virtue that is necessary for the people to be in a position to make known their will?

 $(8 \times 2 = 16 \text{ Marks})$

- III. Answer any six of the following questions.
- 27. Fill in the blanks with the correct option:
 - (a) He had asked you to ————— your answers, hadn't he? (mail him/mail to him)
 - (b) The manager ————— all the claims of the employee and dismissed him. (reputed, refuted)
 - (c) ———— prices cause hardship to the poor. (Escalating/Exciting)

5

		·
28.	Fill	in the blanks with suitable phrases from those given in the brackets :
	(rar	out, tear up, put up, set up, wore off, pass out, cut back, let in, go out)
	(a)	My doctor wants me to ——— on sweets.
	(b)	We — of shampoo so I had to wash my hair with soap.
	(c)	The effects of the sedative ———— after a few hours.
	(d)	I cannot ———— with his attitude.
29.	Cor	rect the errors in any four of the following sentences :
	(a)	Either my mother or my father are coming to the meeting.
	(b)	George and Tamara doesn't want to see that movie.
	(c)	Your pants is at the cleaner's.
	(d)	One of my sisters are going on a trip to France.
	(e)	There was fifteen candies in that bag.
30.	Cor	rect the error in the section in italics in any four of the following sentences:
	(a)	How a beautiful bride she made!
	(b)	What does he think he is!
	(c)	So big eyes you have!
	(d)	Wow, that hurts!
	(e)	That soup was how delicious!
31.	Fill	n the blanks with suitable pronouns :
	(a)	My grandparents live in Berlin. We visit ———— often.
	(p)	I really like watching old shows — — are some of the best things on TV.
	(c)	I'm always talking to ————.
	(d)	I don't recognize the song ————— is playing.

32.	Cor	rect the error in the words in italics :				
	(a)	My knife is sharp than yours.				
	(b)	Truth is strange than fiction.				
	(c)	He is the <i>idler</i> boy in the class.				
	(d)	Bangladesh has the large tea garden in the world.				
33.	Fill	in the blanks with suitable words from those given in brackets :				
	(ailr	nents, strength, suffer, harmony, tension, recover, tackles, outlined)				
	calr Abo for emo	a is a series of physical exercises that use the body and mind to create ———————————————————————————————————				
34.	Fill	Fill in the blanks with the suitable conjunction :				
	(a)	He ran away ———— he was afraid.				
	(b)	You can have an ice cream ———— a brownie sundae.				
	(c)	Our hoard is little, ——— our hearts are great.				
	(d)	He is ——— foolish, ——— stubborn.				
35 .	Rewrite the sentences replacing the italicised words with the appropriate word from the brackets :					
	•	smopolitan, a cartographer, a recluse, an octogenarian, a polyglot, an atheist, optimist, an immigrant)				
	(a)	It is not easy being a foreigner who comes to settle in the USA.				
	(b)	My grandpa is eighty years old.				
	(c)	I took up Spanish to become someone who speaks more than one language.				
	(d)	We need a person who makes maps or charts to decode these cryptic maps.				

Read the passage and answer the questions given below:

- 36. The Indian Army is the land-based branch and the largest component of the Indian Armed Forces. The President of India is the Supreme Commander of the Indian Army, and it is commanded by the Chief of Army Staff (COAS), who is a four-star general. Two officers have been conferred with the rank of field marshal, a five-star rank, which is a ceremonial position of great honour. The Indian Army originated from the armies of the East India Company, which eventually became the British Indian Army, and the armies of the princely states, which finally became the national army after independence. The units and regiments of the Indian Army have diverse histories and have participated in a number of battles and campaigns across the world, earning a large number of battle and theatre honours before and after Independence.
 - (a) Identify a word from the passage that means 'a part or element of a larger whole'.
 - (b) Use the word 'ceremonial' in a sentence of your own.
 - (c) Who commands the Indian Army?
 - (d) Trace the origin of the Indian Army.
- 37. The trend toward commodification of high-brow art took an ominous, if predictable, turn in the 1980s during the Japanese "bubble economy." At a time when Japanese share prices more than doubled, individual tycoons and industrial giants alike invested record amounts in some of the West's greatest masterpieces. Ryoei Saito, for example, purchased van Gogh's Portrait of Dr. Gachet for a record-breaking \$82.5 million. The work, then on loan to the Metropolitan Museum of Modern Art, suddenly vanished from the public domain. A representative of the Van Gogh museum, conceding that he had no legal redress, made an ethical appeal to Mr. Saito, asserting, "a work of art remains the possession of the world at large."
 - (a) Identify a word from the passage that means 'dark' or 'menacing.'
 - (b) What did Mr. Saito purchase and at what cost?
 - (c) Use the word 'masterpiece' in a sentence of your own.
 - (d) What was the request made to Mr. Saito by the representative of the Van Gogh museum?

- 38. Surveillance has increased manifold since the 9/11 terror attacks on the World Trade Centre in the U.S. This increase in surveillance today shapes the relationship between the state and the individual. The state keeps an eye on its citizens, thereby positing each and even citizen as a potential wrong-doer. For instance, the proliferation of the CCTV cameras in streets, restaurants and in every imaginable public space. In fact, the camera need not even be functional in order to make the citizens behave themselves its mere presence is enough to scare the citizens into submission. Such is the power of the mere potential of surveillance.
 - (a) Identify a word from the brackets that means 'surveillance'.(scrutiny, intelligence, attack, suspicion)
 - (b) Give the antonym of 'proliferation.'
 - (c) Which event resulted in the increase in surveillance?
 - (d) What power does the process of surveillance possess?

 $(6 \times 4 = 24 \text{ Marks})$

IV. Answer any two of the following questions, choosing one each from any two Group.

GROUP - A

39. Read the following passage and answer the questions given below:

In 1970 geologists Kenneth J. Hsu and William B.F. Ryan were collecting research data while aboard the oceanographic research vessel *Glomar Challenger*. An objective of this particular cruise was to investigate the floor of the Mediterranean and to resolve questions about its geologic history. One question was related to evidence that the invertebrate fauna (animals without spines) of the Mediterranean had changed abruptly about 6 million years ago. Most of the older organisms were nearly wiped out, although a few hardy species survived. A few managed to migrate into the Atlantic. Somewhat later, the migrants returned, bringing new species with them. Why did the near extinction and migrations occur? Another task for the Glomar Challenger's scientists was to try to determine the origin of the domelike masses buried deep beneath the Mediterranean seafloor.

With questions such as these clearly before them, the scientists aboard the *Glomar Challenger* proceeded to the Mediterranean to search for the answers, On August 23, 1970, they recovered a sample.

The investigators theorized that about 20 million years ago, the Mediterranean was a broad seaway linked to the Atlantic by two narrow straits, Crustal movements closed the straits, and the landlocked Mediterranean began to evaporate. Increasing salinity caused by the evaporation resulted in the extermination of scores of invertebrate species. Only a few organisms especially tolerant of very salty conditions remained. Later, under the weight of overlying sediments, this salt flowed plastically upward to form salt domes. The Mediterranean was a vast desert 3,000 meters deep. Then, about 5.5 million years ago came the deluge. As a result of crustal adjustments and faulting, the Strait of Gibraltar, where the Mediterranean now connects to the Atlantic, opened, and water cascaded spectacularly back into the Mediterranean. As the basin was refilled, normal marine organisms returned. The salt and gypsum, the faunal changes, and the unusual gravel provided abundant evidence that the Mediterranean was once a desert.

1.	is the word used	in the passage for 'look into'.
2.	The word ———— in the oceans'.	passage is related to 'the scientific study of
3.	is a word from the	e passage that is an antonym of 'gradually'.
4.	The phrase ———— in the	passage means 'to obliterate'.
5.	Use the word 'spectacular' in a	sentence of your own.
6.	The synonym for 'cascade' is	
	(a) steps	(b) pour rapidly into
	(c) glitter	(d) transform

is a word from the passage that is an antonym of 'scarce'.

7.

Identify the statement which is true.		
(a) The Mediterranean has undergone no change for millennia		
(b) The Mediterranean is an ocean		
(c) The Mediterranean transformed into a desert for a period of time		
(d) None of these		
What was the objective of the research by geologists Hsu and Ryan?		
Mention one of the major questions related to the above objective.		
According to theorists, what was the Mediterranean like 20 million years ago?		
How did the Mediterranean become landlocked?		
What impact did this have ecologically?		
What is the Strait of Gibraltar?		
. Suggest a suitable title for the passage.		
OR		
wer all the following questions :		
in the blanks with suitable articles, prepositions, conjunctions, adverbs or ectives.		
John answered the question ———.		
We played a ———— tough match yesterday.		
He is ————— talking about visiting his ancestral home.		
She passed the exam ———.		
She walked ———— down the road.		
I'm — little excited because it's — Friday. There are — lot of good shows on TV today — one I usually watch is at 3:30.		

40.

7. Please get me a bag of —

8.	The dinner party went ———.
9.	
10.	This salad is ————— delicious ————— healthy.

Rewrite as directed:

- 11. He will finish the work in a fortnight. (Use passive voice)
- 12. He said to me, "I don't believe you." (Change to indirect speech).
- 13. I wish I were young again. (Write an exclamatory sentence)
- 14. He requested him to wait there till he returned. (Change to direct speech).
- 15. Why was such a letter written by your brother? (Use active voice)

OR

41. Read the passage and answer the questions given below:

Paleontologists have argued for a long time that the demise of the dinosaurs was caused by climatic alterations associated with slow changes in the positions of continents and seas resulting from plate tectonics. Off and on throughout the Cretaceous (the last period of the Mesozoic era, during which dinosaurs flourished), large shallow seas covered extensive areas of the continents. Data from diverse sources, including geochemical evidence preserved in seafloor sediments, indicate that the Late Cretaceous climate was milder than today's. The days were not too hot, nor the nights too cold. The summers were not too warm, nor the winters too frigid. The shallow seas on the continents probably buffered the temperature of the nearby air, keeping it relatively constant.

At the end of the Cretaceous, the geological record shows that these seaways retreated from the continents back into the major ocean basins. No one knows why. Over a period of about 100,000 years, while the seas pulled back, climates around the world became dramatically more extreme: warmer days, cooler nights; hotter summers, colder winters. Perhaps dinosaurs could not tolerate these extreme temperature changes and became extinct.

Dissatisfaction with conventional explanations for dinosaur extinctions led to a surprising observation that, in turn, has suggested a new hypothesis. Scientists hypothesized that a single large asteroid, about 10 to 15 kilometers across, collided with Earth, and the resulting fallout created the boundary clay. Their calculations show that the impact kicked up a dust cloud that cut off sunlight for several months, inhibiting photosynthesis in plants; decreased surface temperatures on continents to below freezing; caused extreme episodes of acid rain; and significantly raised long-term global temperatures through the greenhouse effect. This disruption of the food chain and climate would have eradicated the dinosaurs and other organisms in less than fifty years.

1.	The synonym for 'flouris	h' is	•
	(a) thrive	(b)	shake
	(c) impress	(d)	address
2.	The word ————of the earth and its rock	-	ssage relates to the chemical composition erals.
3.	Find the word in the passage that is the antonym of 'hot'.		
4.	The word 'buffer' in the	passage i	s closest in meaning to
	(a) erupt	(b)	shower
	(c) shield	(d)	none of the above
5.	Use the word 'evidence' in a sentence of your own.		
6.	Identify a word from the something.'	ne passa	ge that means 'consequence or result of
	(a) fallout	(b)	dismal
	(c) experience	(d)	none of the above
7.	Use the word 'eradicate'	in a sent	ence of your own.
8.	Identify the statement w	hich is tru	e

The climate during the late Cretaceous was harsh.

The climate during the late Cretaceous was mild.

(b) The climate during the late Cretaceous was cold.

(a)

(c) (d)

None of these.

	9.	What reasons did paleontologists associate with the demise of the dinosaurs?
	10.	Define Cretaceous.
	11.	What conditions contributed to the moderate temperature of the Cretaceous?
	12.	What happened once the sea pulled back?
	13.	Explain the new hypothesis regarding the extinction of the dinosaurs.
	14.	What was the immediate result of the asteroid's collision with earth?
	15.	Suggest a suitable title for the passage.
	•	GROUP B
42.		t the error in the underlined sections in the following sentences. If there is no r, the answer is 'd'.
	1.	Owing to his ill health, he will not be able to give this examination. No Error. a b c d
	2.	He prostrated himself before his master upon his return from London.
		a b c No error d
	3.	He lent me some money on the condition that I should
	٠	a b
		return before November. <u>No Error</u> . c d
	4.	Ravi was approached the money lender and requested him
:		a b
		to lend him some money. No Error.
	5.	Currently, working from home have become common scenario. No error
	5 .	a b c d
	•	

6.	" <u>Pull it out by its plu</u> a	g, <u>not by the</u> b	cord," sai	d dad. <u>N</u>	<u>error</u> . d		
7.	Either the captain of a No error.	<u>r someone f</u>	<u>rom his cr</u> b	ew is res	sponsible c	for this n	nistake
8.	She reimbursed a our journey to Jaipu c	back the r. <u>No error</u> d	money	which	<u>i had</u> b	spent	during
9.	Either Lisa or Karer a to serve on our boa c		volunteer ,	their valu b	ıable time		
10.	When she entered to a sleeping peacefully.		e found the b	e child		· .	·
11.	"They had went to the	<u>e lake witho</u> b	<u>ut me</u> ", <u>Ja</u>	ck compl c	ained. <u>No</u>	<u>error</u> . d	
12.	Do you think they w	vill except ou b	ır plan <u>wit</u> l	nout an a	rgument?	<u>No erro</u> d	<u>r</u>
13.	The conversation w	ith her moth	er <u>had a r</u>	b b	affect on	her. No c	<u>error</u> d
14.	Any of these pictur	es is not wo	orth seeing c	<u>n. No erro</u> d	<u>or</u> .		
15.	Symptoms of this illi a	ness include	es fever, <u>v</u> b	omiting a	nd diarrh c		<u>error</u> . d
		•	ND.				

15

43. Read the passage and answer the questions given below.

The Alaska pipeline starts at the frozen edge of the Arctic Ocean. It stretches southward across the largest and northernmost state in the United States, ending at a remote ice-free seaport village nearly 800 miles from where it begins. It is massive in size and extremely complicated top operate.

The steel pipe crosses windswept plains and endless miles of delicate tundra that tops the frozen ground. It weaves through crooked canyons, climbs sheer mountains, plunges over rocky crags, makes its way through thick forests, and passes over or under hundreds of rivers and streams. A little more than half of the pipeline is elevated above the ground. The remainder is buried anywhere from 3 to 12 feet, depending largely upon the type of terrain and the properties of the soil.

One of the largest in the world, the pipeline cost approximately \$8 billion and is by far the biggest and most expensive construction project ever undertaken by private industry. In fact, no single business could raise that much money, so eight major oil companies formed a consortium in order to share the costs. Each company controlled oil rights to particular shares of land in the oil fields and paid into the pipeline-construction fund according to the size of its holdings. Today, despite enormous problems of climate, supply shortages, equipment breakdowns, labour disagreements, treacherous terrain, a certain amount of mismanagement, and even theft, the Alaska pipeline has been completed and is operating.

1.	The word 'remote' in the passage is closest in meaning to		
	(a) electronic device	(b) unrelated	
	(c) sizeable	(d) far away from civilisation	
2.	The phrase 'windswept plains' in	n the passage is closest in meaning to	
	(a) unsheltered land	(b) bayou	

(c) plateau (d) mountain

	•		
3.	Find the word in the passage which is the antonym of 'molten'.		
4.	Use the word 'complicated' in a sentence of your own.		
5.	The phrase 'plunges over' in the passage means		
	(a) climb up (b) stream by		
	(c) falls over (d) flow across		
6.	is a word in the passage which means 'bent' or 'twisted.'		
7.	The word 'consortium' in the passage means		
	(a) an association (b) a condition		
	(c) a result (d) none of the above		
8.	Use the word 'treacherous' in a sentence of your own.		
9.	Identify the statement which is true with regard to the Alaska pipeline		
	(a) One company holds the rights to it.		
	(b) Several governments together hold the rights.		
	(c) A consortium of eight oil companies holds the rights.		
	(d) None of these.		
10.	What is the Alaska pipeline?		
11.	Describe the terrain on which the pipeline is built.		
12.	A consortium was formed for the construction and operation of the pipeline. Why?		
13.	How is it significant in terms of size and cost?		
14.	What were the challenges, excluding the cost, faced while constructing the pipeline?		
15.	Suggest a suitable title for the passage.		

OR

1.	They travelled ———— the river.
2.	My brother loves animals. He just brought a puppy ————— a kitten home with him.
3.	We could cook dinner ———, we could buy some takeaway food.
4.	Marie was born in 1867 — Warsaw, Poland — an early age, she displayed a brilliant mind. Her great exuberance — learning prompted her to continue — her studies after high school.
5.	Jennifer does not like to swim, ———— does she enjoy cycling.
6.	His two favourite sports are football ———— tennis.
7.	He is intelligent, — very funny.
8.	The treasure lies ————— the box.
9.	The cat is sleeping ———— the bed.
10.	I wake up early.
Rev	vrite as directed :
11.	Of his birth many tales are told. (Write in active voice)
12.	Only the brave deserves the praise. (Change into negative)
13.	"Please sit down", said the headmaster. (Change into indirect speech)
14.	They proclaimed him king. (Write in passive voice).