

Reg. No.

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BSCCHC 231/BSCCHC 203

**III Semester B.Sc. Degree Examination, April 2021
(Choice Based Credit System/Credit Based Semester Scheme)
(Common to all Batches)
(2020-21 Batch Onwards/2019-20 and Earlier Batches)
Paper – III : CHEMISTRY**

Time : 3 Hours

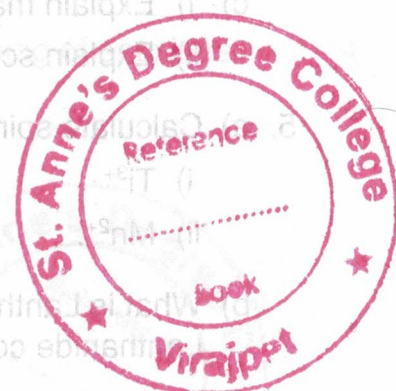
Max. Marks : 80

- Instructions :** 1) A single booklet containing 40 pages will be **issued**.
No additional sheets will be issued. Write question number and subdivision **clearly**.
2) Write equations and diagrams **wherever** necessary.
3) Answer Part – A in the **first two** pages of answer book.
4) Scientific calculators are **allowed**.

PART – A

1. Answer **any ten** of the following : **(2×10=20)**
- State second law of thermodynamics in terms of entropy.
 - Define molar heat capacity at constant volume.
 - What is inversion temperature ?
 - What are transition metals present in hemoglobin and Vitamin B₁₂ ?
 - Why atomic radii of Zr and Hf are almost same ?
 - Which is the surfactant used in the preparation of nanomaterials by chemical method ?
 - Give the Lux-Flood concept of acids and bases.
 - What are azeotropic mixtures ? Give an example.
 - What is a redox couple ? Give an example.
 - What is aryloxyacetic acid ? Give an example.
 - Write the IUPAC name of the following :
 - ethylene oxide
 - ethylmethylether.
 - How do you convert acetaldehyde into ethyl acetate ? Give the name of the reaction.

P.T.O.





PART – B

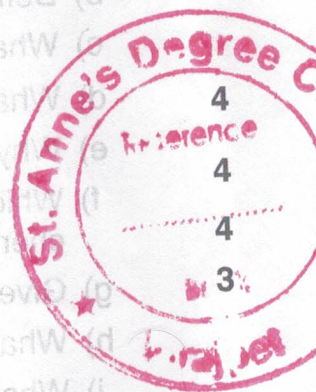
Answer **any four** of the following questions, choosing **one** question from each Unit. (15×4=60)

UNIT – I

2. a) Discuss variation of Gibb's free energy with pressure and temperature. 4
 b) Show that Joule Thomson effect is isoenthalpic. 4
 c) i) Derive an expression for the entropy of mixing of ideal gases. 4
 ii) Calculate the entropy change involved in the isothermal expansion of 5 moles of an ideal gas from a volume of 8 dm³ to a volume of 80 dm³ at 300 K. 3
 3. a) Derive an expression for Joule Thomson coefficient of a gas. 3
 b) Explain Carnot's cycle and derive an expression for its efficiency. 5
 c) i) Derive an expression for the entropy change for an ideal gas associated with volume and temperature change. 4
 ii) Calculate the Gibb's free energy change which occurs when one mole of an ideal gas expands reversibly and isothermally at 300 K from the initial volume of 5 dm³ to 50 dm³. 3

UNIT – II

4. a) Describe L-D process of manufacture of steel. 4
 b) Explain separation of lanthanides by ion-exchange method. 4
 c) i) Explain magnetic properties of transition elements. 4
 ii) Explain scanning electron microscopy. 3
 5. a) Calculate spin only magnetic moment of the following ions :
 i) Ti³⁺ 3
 ii) Mn²⁺ 3
 b) What is Lanthanide contraction ? Explain any three consequences of Lanthanide contraction. 5
 c) i) Write any four applications of nano materials. 4
 ii) Explain effects of alloying elements. 3





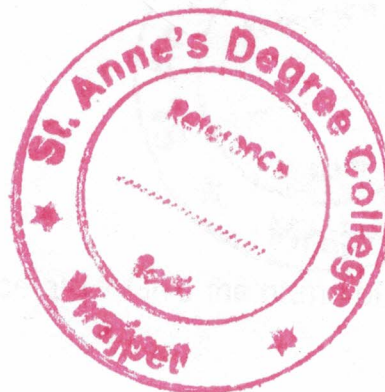
UNIT – III

- 6. a) What is critical solution temperature ? With a neat diagram explain nicotine-water system. 4
- b) Discuss the applications of HSAB principle. 4
- c) i) Explain Latimer diagram for chlorine in acid solution. 4
- ii) State Nernst distribution law. Give any two limitations of the law. 3
- 7. a) State and explain Raoult's law. 3
- b) With a neat diagram explain steam distillation. 5
- c) i) Discuss how thermodynamic feasibility of a reaction be tested with a suitable example. 4
- ii) What are the factors affecting hardness of acids and bases ? 3

UNIT – IV

- 8. a) What is Michael addition ? Give its mechanism. 4
- b) Explain the mechanism of Mannich reaction. 4
- c) i) Give the mechanism of nucleophilic addition of ammonia derivatives to carbonyl compounds. 4
- ii) Explain the auto oxidation of ethers with an example. 3
- 9. a) Compare the acidic properties of phenols and carboxylic acids. 3
- b) What are α , β -unsaturated carbonyl compounds ? Give any two methods of preparation. 5
- c) i) Describe the orientation of acid catalysed ring opening of epoxides. 4
- ii) What is Tischenko reaction ? Give its mechanism. 3

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Reg. No.

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BSCPHE 233

III Semester B.Sc. Degree Examination, April 2021

(Choice Based Credit System)

(2020-2021 Batch Onwards)

PHYSICS (Elective)

Electrical Appliances

Time : 2 Hours

Max. Marks : 40

Instruction : Answer questions from all Units.

PART – A

1. Answer **any four** of the following questions :

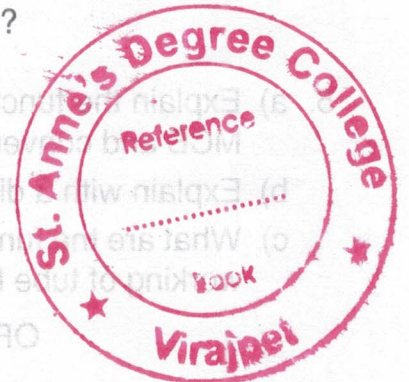
(1×4=4)

- What is the cause of electrical resistance in a conductor ?
- Define rms value of a signal.
- Why DC meters cannot be used to measure ac ?
- What is the principle of working of electric iron?
- Expand ELCB.
- What do you mean by life of fluorescent lamps ?

2. Answer **any four** of the following questions :

(2×4=8)

- Give two differences between capacitive reactance and inductive reactance.
- Determine the resistance of a colour coded resistor bearing colour sequence as : brown-red- orange-gold.
- How LF choke is different from HF choke ?
- Write 2 advantages of using universal motors over a single phase induction motor in a mixer.
- What properties are required for a material to use it as a lightning conductor ?
- Write any two applications of LED.



P.T.O.

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PART - B

Unit - I

3. a) Explain with a diagram the modification of pointer galvanometer into ammeter.
 b) Give any four reasons for the power losses in the output power of a transformer.
 c) Explain the construction and working of moving iron type ac meter with a diagram. (4+4+6)

OR

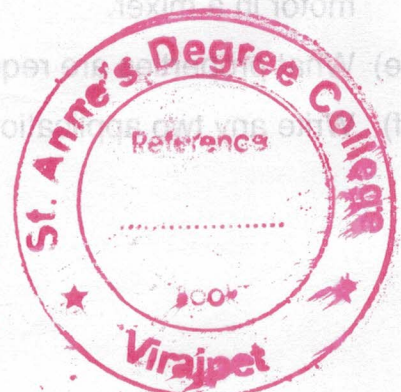
4. a) State and explain Ohm's law. Write two limitations of Ohm's law.
 b) Draw a labelled diagram of cathode ray oscilloscope. Write two applications of it.
 c) What is watt-hour meter ? Explain the principle and working of a watt-hour meter with a neat diagram. (4+4+6)

Unit - II

5. a) Explain the function of fuse in a circuit. Write any two differences between MCB and conventional fuses.
 b) Explain with a diagram the working of a resistance regulator in a fan.
 c) What are the functions of a starter in a fluorescent tube circuit ? Explain the working of tube light with thermal type starter. (4+4+6)

OR

6. a) Write any 4 effects of high voltage flow and low voltage flow in a circuit.
 b) Write the functions of compressor, evaporator, coolant and condenser in a refrigerator.
 c) Expand CFL. How light is emitted in a CFL ? Give any three comparisons between CFL and incandescent lamps. (4+4+6)



III Semester B.Sc. Examination, April 2021
(CBCS)
(Choice Based Credit System)
(2020-2021 Batch Onwards)

MATHEMATICS

Sequences, Series and Differential Equations

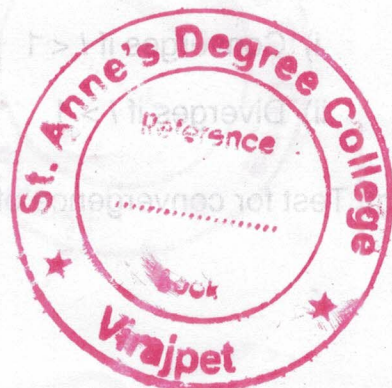
Time : 3 Hours

Max. Marks : 80

- Instructions :** 1) Answer **any ten** questions from Part – A. Each question carries 2 marks.
 2) Answers to Part – A should be written in the first few pages of the answer book before answers to Part – B and C.
 3) Answer **six full** questions from Part – B and **six full** questions from Part – C.
 4) Scientific **calculators** are allowed.

PART – A

1. Answer **any ten** questions : **(10×2=20)**
- Show that every convergent sequence is bounded.
 - Show that $\lim_{n \rightarrow \infty} \frac{3+2\sqrt{n}}{\sqrt{n}} = 2$ using E – M definition.
 - Define a cauchy sequence of real numbers.
 - Show that $\lim_{n \rightarrow \infty} \frac{1}{n} (1 + 2^{1/2} + 3^{1/3} + \dots + n^{1/n}) = 1$.
 - Prove that a necessary condition for convergence of an infinite series $\sum u_n$ is that $\lim_{n \rightarrow \infty} u_n = 0$.
 - Test the convergence of $\sum \left(1 + \frac{1}{\sqrt{n}}\right)^{-n^{3/2}}$.
 - Test the convergence of $\sum \sin \frac{1}{n}$.





- h) Check the exactness of the equation $(2x^3 - xy^2 - 2y + 3) dx - (x^2y + 2x) dy = 0$.
- i) The radius of the moon is roughly 1080 miles. The acceleration of gravity at the surface of the moon is about $0.165g$. Find the velocity of escape for the moon. ($g = 6.09 \times 10^{-3}$ miles/sec²).
- j) Find the orthogonal trajectories of $x - 4y = c$.
- k) Find the particular integral of $(D^2 + D + 1)y = \sin 2x$.
- l) Find the complementary function of $(D^2 + 2D + 1)y = 2e^{3x}$.
- m) Solve $(D^2 + 5D + 6)y = 0$.
- n) Express $\frac{d^2y}{dx^2}$ in terms of independent variable z .

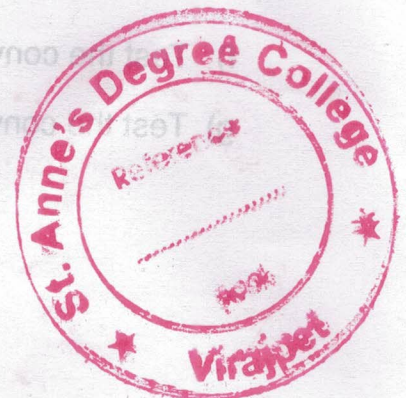
PART - B

Answer any six questions :

(6×5=30)

2. a) Show that the sequence $\{S_n\}$ where $S_n = 1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n}$ cannot converge.
- b) If $\lim_{n \rightarrow \infty} a_n = a$ and $a_n \geq 0$ for all n , then prove that $a \geq 0$.
- c) Show that the sequence $\left\{1 + \frac{1}{n}\right\}$ is convergent and it converges to a limit between 2 and 3.
- d) Define a monotonic sequence and prove that a monotonic bounded sequence converges.
- e) Show that the series $1 + \frac{1}{2!} + \frac{1}{3!} + \frac{1}{4!} + \dots$ is convergent.
- f) If $\sum u_n$ is a series of positive terms such that $\lim_{n \rightarrow \infty} n \left(\frac{u_n}{u_{n+1}} - 1 \right) = l$, then prove that the series
- Converges if $l < 1$
 - Diverges if $l > 1$.
- g) Test for convergence of the series $\sum \frac{n^2 - 1}{n^2 + 1} x^n, x > 0$.

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- h) If the alternating series $u_1 - u_2 + u_3 - \dots$ ($u_n > 0$ for all n) is such that
- i) $u_{n+1} \leq u_n$ for all n
 - ii) $\lim_{n \rightarrow \infty} u_n = 0$ then show that the series converges.

- i) Test the convergence of the series $\sum_{n=1}^{\infty} \frac{\sin nx}{n^2}$ for a fixed x .

PART - C

Answer **any six** questions :

(6×5=30)

3. a) Solve $(x^2 + y^2 + 1) dx + x(x - 2y) dy = 0$ by determining the integrating factor.
- b) Solve $y(6y^2 - x - 1) dx + 2x dy = 0$.
- c) Solve $(x + 2y - 4) dx - (2x + y - 5) dy = 0$.
- d) Find the orthogonal trajectories of the family of curves given by $r = a(1 + \sin \theta)$.
- e) A thermometer reading 75°F is taken out where the temperature is 20°F . The reading is 30°F four minutes later. Find the thermometer reading 7 minutes after the thermometer was brought outside.
- f) Solve $x^3 \frac{d^3y}{dx^3} + 3x^2 \frac{d^2y}{dx^2} + x \frac{dy}{dx} + y = x + \log x$.
- g) Solve by reduction to normal form $y_2 - 4xy_1 + (4x^2 - 3)y = e^{x^2}$.
- h) Solve by change of independent variable method $(1 + x^2)y_2 + xy_1 + 2y = 0$.
- i) Solve $(D^2 + 1)y = \sec x \tan x$ by variation of parameters.



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**BSCENL 231/FNDENL 231/BSAENL 231/BFTENL 231/
BFDENL 231/BIDENL 231/BHSENL 231/BCAENL 231**

**III Semester B.Sc./B.Sc.(FND)/B.Sc.(Animation and Visual Effects)/B.Sc.(FT)/
B.Sc.(FD)/B.Sc.(ID and D)/B.Sc. (HS)/B.C.A. Examination, April 2021
(Choice Based Credit System) (2020-21 Batch Onwards)**

ENGLISH

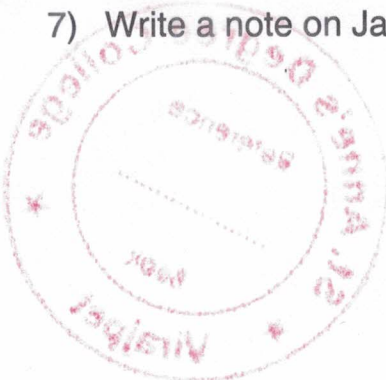
Compulsory Foundation Course in English

Time : 3 Hours

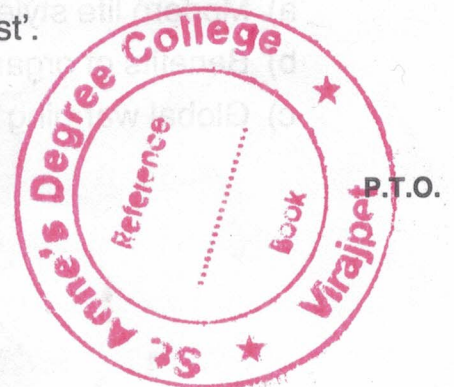
Max. Marks : 80

**SECTION – A
(One Act Plays)**

- I. Answer **any two** of the following in **not more than two pages each** : (2×10=20)
- 1) Why does Wasserkopf seek a refund of his tuition fees in the play 'Refund' ? How do the teachers' combined efforts defeat his intention ?
 - 2) Comment on the theme of the play 'A Marriage Proposal'.
 - 3) Discuss the role of monkey's paw in destroying the Whites' family.
 - 4) Explain why the play is called 'Never Never Nest'.
- II. Answer **any five** of the following in **a page each** : (5×6=30)
- 1) Who traps Wasserkopf finally and how ?
 - 2) What suggestions does the Mathematics Master give to checkmate Wasserkopf ?
 - 3) How does Chubukov support his daughter in her quarrel with Lomov ?
 - 4) What is the contention of Lomov and Natalia regarding the meadow ?
 - 5) Briefly write about the first two wishes made by the Whites.
 - 6) Write a note on Mrs. White.
 - 7) Write a note on Jack in the play 'Never Never Nest'.



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BSCENL 231/FNDENL 231/BSAENL 231/BFTENL 231 /BFDENL 231/
BIDENL 231/BHSENL 231/BCAENL 231



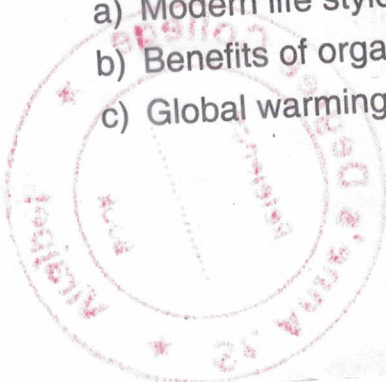
III. Select **any two** of the following passages and answer the questions set on them :

- 1) By sticking together. The object is to prevent him from failing, because if he fails, he succeeds.
 - a) Identify the speaker. 1
 - b) Whom does the speaker wish to prevent and how ? 2
 - c) Explain the context. 2
- 2) You ought to sit at home with your palpitations, and not go tracking animals.
 - a) Whom does the speaker reprimand in the context ? 1
 - b) What is the speaker's belief about that person ? 2
 - c) What is the tone of the speaker in the context ? 2
- 3) We're too old. We are only alive in him. We can't begin again. We can't feel anything now, John, but emptiness and darkness.
 - a) Who are the old people ? 1
 - b) What kept them going ? 2
 - c) List two words to show their present state of mind. 2
- 4) 'You see, I - I've already sent it off for something else. Nurse has just gone to post it.'
 - a) Who is 'you' in line one ? 1
 - b) What has the speaker already sent ? 2
 - c) What is the speaker's intention in doing so ? 2

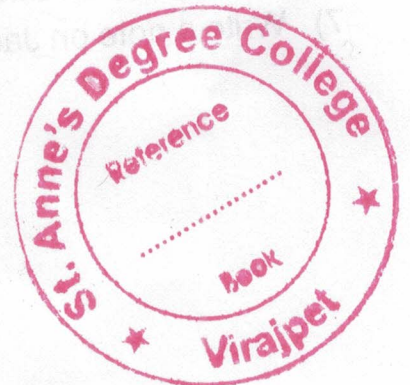
**SECTION - B
(Composition)**

IV. Do as directed.

- 1) Write an essay on **any one** of the following in not more than **two pages**. (1×10=10)
 - a) Modern life style and obesity.
 - b) Benefits of organic farming.
 - c) Global warming and rising sea levels.



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**BSCENL 231/FNDENL 231/BSAENL 231/BFTENL 231 /BFDENL 231/
BIDENL 231/BHSENL 231/BCAENL 231**

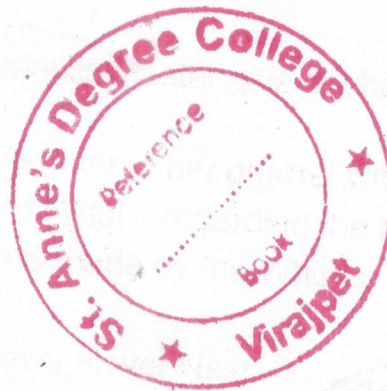
- 2) Write a dialogue of about **10-15** sentences on **any one** of the following : (1×5=5)
- Two students discuss the problems related to exams during the pandemic.
 - Two friends talk about their options for higher education in India.
 - You are the class leader. Talk to the class teacher and finalize a picnic spot.

- 3) Write a letter of application with C.V. for the post of a clerical staff. 5

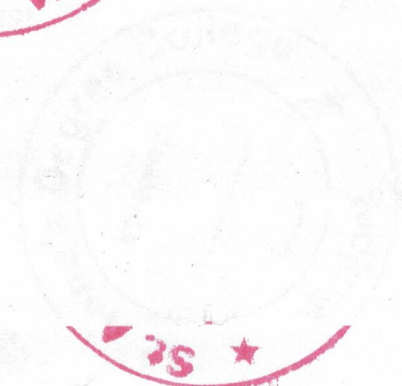
The letter must be addressed to – The Principal, Maharani's College, Mysore.

Sender's Address :

Pramod Shetty, Shanthi Nilaya, Vidya Nagar, I Cross, Kuvempu Nagar, Mysore.



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Reg. No.

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BSCPHC 231

**III Semester B.Sc. Examination, April 2021
(Choice Based Credit System) (2020-2021 Batch Onwards)**

PHYSICS

Optics

Time : 3 Hours

Max. Marks : 80

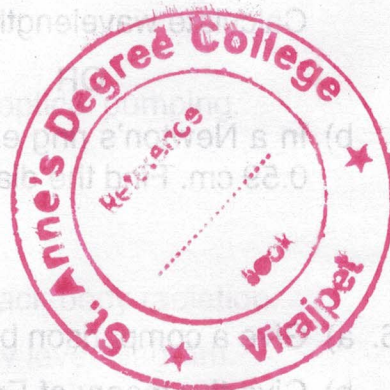
Instructions : 1) Answer question from **all Units**.
2) Scientific calculators are **allowed**.

PART – A

1. Answer **any eight** of the following :

(1×8=8)

- What are thin films ?
- What is interference of light ?
- What is fringe width ?
- What is quarter waveplate ?
- What is optical activity ?
- What is diffraction of light ?
- Define gradient of a scalar function.
- What is irrotational field ?
- State Stefan's law of radiation.
- Mention any two characteristics of laser light.



2. Answer **any six** of the following :

(2×6=12)

- Draw the labeled diagram of Michelson's interferometer.
- Give the conditions for constructive and destructive interference in terms of phase difference.
- What are O-ray and E-ray. Write the difference between them.
- Define dispersive power of grating and write an expression for it.
- State Stoke's theorem. Express it in the vector form.
- Define poynting vector. What is its significance ?
- What is a hologram ?
- Define solar constant.

P.T.O.

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PART – B

UNIT – I

3. a) Derive an expression for the fringe width of the fringes formed by an air-wedge illuminated by monochromatic source of light. 4
- b) How Newton's rings are formed? Obtain an expression for the radius of the m^{th} dark and bright ring due to reflected light. 7

OR

4. a) Explain how coherent sources of light are realized? Give one example for each. 4
- b) Describe the method of determining the wavelength of monochromatic light using biprism. 7
5. a) In a double slit experiment the separation of the slits is 2 mm and fringe spacing is 0.3×10^{-3} m. The screen is at a distance of 1.2 m from the slits. Calculate wavelength of light. 4

OR

- b) In a Newton's ring experiment diameter of 15^{th} dark ring was found to be 0.59 cm. Find the diameter of the 5^{th} dark ring. 4

UNIT – II

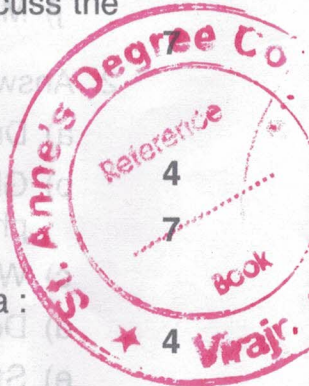
6. a) Give a comparison between positive crystal and negative crystal. 4
- b) Give the theory of Fraunhofer diffraction due to single slit and discuss the intensity distribution on the screen.

OR

7. a) Obtain an expression for resolving power of a grating. 4
- b) Give Fresnel's theory of rotatory polarisation. 7
8. a) Calculate the thickness of a half wave plate from the following data : $n_o = 1.54$, $n_e = 1.55$ and $\lambda = 600$ nm. 4

OR

- b) Calculate the number of lines per metre in a grating of width 3 cm, which will just resolve the sodium lines in the second order. Given the wavelength of sodium lines to be 5896 \AA and 5890 \AA . 4





UNIT – III

9. a) Explain divergence of a vector. What is its significance ? 4
b) Starting from Ampere's circuital law arrive at the equation $\text{curl of } \vec{B} = \mu \vec{J}$ show that it is inconsistent with the equation of continuity. How it is corrected ? 7

OR

10. a) Derive equation of continuity. 4
b) Derive the wave equation for vector fields \vec{E} and \vec{B} . Hence arrive at the equation for the velocity of electromagnetic wave in a medium. 7
11. a) If $\phi = x^2 - 2xy + y^2$, calculate $\nabla \phi$ at $(2, -1)$ 4

OR

- b) If $\vec{F} = 2xz\hat{i} - yz\hat{j} + 3xz\hat{k}$, find $\text{curl } \vec{F}$. 4

UNIT – IV

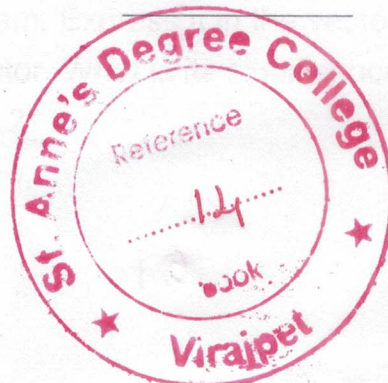
12. a) Explain the principle of population inversion by optical pumping. 4
b) Derive Planck's law of radiation. 7

OR

13. a) Draw and explain the energy distribution of a black body radiation. 4
b) Describe the working of He-Ne laser with energy level diagram. 7
14. a) A body at 1500 K emits maximum energy of wavelength 2000 nm. If the sun emits maximum energy of wavelength 500 nm, What would be the temperature of the sun ? 4

OR

- b) Calculate the radiant energy emitted per unit area per second of a black body at a temperature of 1200 K. Given $\sigma = 5.735 \times 10^{-8} \text{ Js}^{-1}\text{m}^{-2}\text{k}^{-4}$. 4



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**BSCHDL 231/FNDHDL 231/BSAHDL 231/BFTHDL 231 /
BFDHDL 231/BIDHDL 231**

**III Semester B.Sc./B.Sc.(FND)/B.Sc. (Animation and Visual Effects)/B.Sc.
(Food Technology)/B.Sc. (FD)/B.Sc. (ID & D) Degree Examination, April 2021
(Choice Based Credit System)**

(2020 – 21 Batch Onwards)

**COMPULSORY FOUNDATION LANGUAGE – HINDI
(Group – III) (Paper – III)**

Time : 3 Hours

Max. Marks : 80

I. किन्हीं दो अवतरणों की सप्रसंग व्याख्या कीजिए।

(2x5=10)

अ) सोचा है नत हो बार-बार-

“यह हिन्दी का स्नेहोपहार
यह नहीं हार मेरी, भास्वर
वह रत्नहार-लोकोत्तर वर”।

आ) हो गया ब्याह, आत्मीय स्वजन

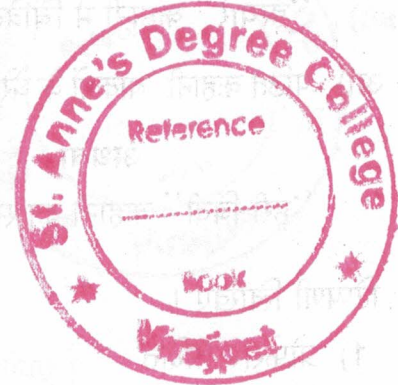
कोई थे नहीं, न आमन्त्रण
था भेजा गया, विवाह-राग
भर रहा न घर निशि-दिवस-जाग

इ) हर नया परिवर्तन नयी समस्याओं को भी पैदा करता है

एकल परिवार की भी बहुत सारी खूबियाँ थीं
पर उसकी समस्याएँ भी कम न थीं
कहानियों को पढ़ते और बहसों को सुनते उस डिज़ाइनर के मन को
मथ रहा था एक ही विचार
कि बच्चे अकेले होते जायेंगे

ई) हो सकता है कभी तुममें से कुछ बच्चे बड़े होकर

उस नेपथ्य में भी प्रवेश करें जहाँ खिलौने आकार लेते हैं
वह सब कुछ बहुत आसान नहीं होता
मिट्टी और लकड़ी से बने खिलौने भी जो सबसे सरल दिखते हैं
बहुत हुनर और कई रातों के सपनों से रचे जाते हैं।



P.T.O.

II. सरोज केलघु जीवनावधि की विभिन्न घटनाओं का चित्रण पठित कविता के आधार पर विस्तार से लिखिए। (1×10=10)

अथवा

‘खिलौना’ कविता के आधार पर कवि का आशय अपने शब्दों में लिखिए।

III. एक वाक्य या एक शब्द में उत्तर लिखिए। (5×1=5)

- 1) गूडड किस बीमारी से मर जाता है ?
- 2) मेहमान का नायक किस ग्रंथि का शिकार है ?
- 3) फौजी का नाम क्या है ?
- 4) रवि का विवाह किसके साथ होता है ?
- 5) किशोर के बेटे की उम्र कितनी थी ?

IV. अ) “हीलीबोन की बतरखें” कहानी का सारांश लिखकर उसकी विशेषताओं पर प्रकाश डालिए। (1×10=10)

अथवा

“हत्यारे” कहानी में चित्रित आधुनिक युवकों के जीवन दर्शन का विवेचन कीजिए।

आ) पठित कहानी ‘बादलों के घेरे’ के आधार पर मन्नो और रवि की मनोदशा का वर्णन कीजिए। (1×10=10)

अथवा

“हरी बिंदी” कहानी का सार लिखकर उसकी विशेषताओं पर प्रकाश डालिए।

V. टिप्पणी लिखिए।

(2½×4=10)

- 1) प्रोफ़ेसर दीक्षित
- 2) पुष्पा
- 3) सुरेश
- 4) अनिता

VI. अ) नीचे दिये गये शब्दों का पर्यायवाची शब्द लिखिए।

(5×½=2½)

- 1) आकाश
- 2) कमल
- 3) पुत्र
- 4) सर्प
- 5) चतुर

BSCHDL 231/FNDHDL 231/BSAHDL 231/BFTHDL 231/BFDHDL 231/BIDHDL 231

आ) नीचे दिये गये शब्दों का विपरीतार्थक शब्द लिखिए ।

(5×1/2=2 1/2)

- 1) अनुज
- 2) रक्षक
- 3) दुर्लभ
- 4) एक
- 5) वरदान

इ) नीचे दिये गये मुहावरों के अर्थ लिखिए ।

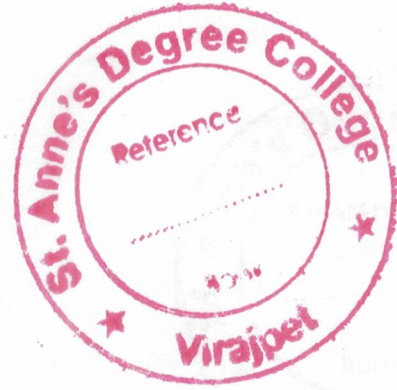
(5×1=5)

- 1) आँख उठाकर न देखना
- 2) आसमान से बातें करना
- 3) ईंट का जवाब पत्थर से देना
- 4) होश उड़ जाना
- 5) अपना सा मुँह लेकर रह जाना

ई) नीचे दी गयी लोकोक्तियों के अर्थ लिखिए ।

(5×1=5)

- 1) अन्धों में काना राजा ।
- 2) एक अनार सौ बीमार ।
- 3) साँच को आँच नहीं ।
- 4) भैंस के आगे बीन बजाना ।
- 5) जैसी करनी वैसी भरनी ।



उ) दो मित्रों के बीच अपने अपने विद्यालय के बारे में संवाद लिखिए ।

5

ऊ) निर्देशानुसार वाक्य बदलिए ।

(5×1=5)

- 1) सुरेश के आ जाने से सब प्रसन्न हो गये । (संयुक्त वाक्य में)
- 2) रमेश आया और सुषमा चली गयी । (सरल वाक्य में)
- 3) मेरे पास कामायनी है, जिसे जयशंकर प्रसाद जी ने लिखा है । (सरल वाक्य में)
- 4) सूर्य के उगते ही अँधेरा भागा (मिश्र वाक्य में)
- 5) जब उसने मुझे देखा, तो खिसक गया । (संयुक्त वाक्य में)

Reg. No.

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**BCKAL 231/204/BFDKAL 231/BFTKAL 231/
BIDKAL 231/BSAKAL 231/FNDKAL 231**

**III Semester B.Sc./B.Sc. (FD)/B.Sc. (FT)/B.Sc. (ID&D)/B.Sc. (A&VE)/
B.Sc. (FND) Degree Examination, April 2021
(Choice Based Credit System/Credit Based Semester Scheme)
(2020-21 Batch Onwards/2018-19 Batch Onwards)**

KANNADA

Kannada Language (Paper – III)

ಸಮಯ : 3 ಗಂಟೆಗಳು

ಗರಿಷ್ಠಾಂಕಗಳು : 80

I. ಈ ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿರಿ :

(3×8=24)

1) ಸೀಮಂತಿನಿ ಕವನದ ಆಶಯವನ್ನು ವಿವರಿಸಿ.

ಅಥವಾ

ಕರ್ಣಾರ್ಜುನರ ವಾದ-ವಿವಾದಗಳನ್ನು ನಿರೂಪಿಸಿ.

2) ನಾಯಿಮಲ್ಲಿಗೆ ಪ್ರಬಂಧದಲ್ಲಿ ಜಾಕಿಯ ಅಕ್ಕರೆಯು ಅನಾವರಣಗೊಂಡ ಬಗೆಯನ್ನು ಬರೆಯಿರಿ.

ಅಥವಾ

ನೀರಿನ ಮಹತ್ವ 'ಹಳ್ಳದ ಗುಂಟ' ಪ್ರಬಂಧದಲ್ಲಿ ಮೂಡಿಬಂದ ಪರಿಯನ್ನು ವಿವರಿಸಿ.

3) ಸ್ತ್ರೀಲೋಕ ಕಾದಂಬರಿಯಲ್ಲಿ ಬರುವ ನಿರೂಪಕಿಯ ಪಾತ್ರವೇನು ? ವಿವರಿಸಿ.

ಅಥವಾ

ಸ್ತ್ರೀಲೋಕ ಕಾದಂಬರಿಯ ಆಶಯವನ್ನು ವಿವರಿಸಿ.

II. ಈ ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿರಿ :

(3×5=15)

1) ಮಲೆನಾಡಿನ ಗೋಪೂಜೆ ಮತ್ತು ಬಲೀಂದ್ರನ ಪೂಜೆ 'ತಂದೇವೀ ದೀಪಾನ ಕೊಳ್ಳೀರಯ್ಯ' ಹಾಡಿನಲ್ಲಿ ಅಭಿವ್ಯಕ್ತಗೊಂಡ ಬಗೆಯನ್ನು ವಿವರಿಸಿ.

ಅಥವಾ

'ಕೊಂಕಣಿ ಜನಪದ ಗಾಥಾ' ಕವಿತೆಯ ಸೌಂದರ್ಯವನ್ನು ವಿವರಿಸಿ.

ಪು.ತಿ.ನೋ.



2) ಲೇಖಕರು ಅನುಭವಿಸಿದ ಪಜೀತಿಯನ್ನು ದೆವ್ವದ ಮನೆ ಪ್ರಬಂಧದ ಹಿನ್ನೆಲೆಯೊಂದಿಗೆ ವಿವರಿಸಿ.

ಅಥವಾ

ಆಕಾಶಕಾಯಗಳಲ್ಲಿ ಚಂದ್ರನ ಮಹತ್ವವನ್ನು ವಿವರಿಸಿ.

3) ಗಂಡದಿರು ನೀರು ಸೇದಿದರು ಭಾಗದ ಸ್ವಾರಸ್ಯವನ್ನು ವಿವರಿಸಿ.

ಅಥವಾ

ಕನ್ನಡ ಶಾಲೆಯ ಕುರಿತಾದ ನಿರೂಪಕಿಯ ಅಭಿಪ್ರಾಯವನ್ನು ಅವರ ಮಾತುಕತೆಯ ಹಿನ್ನೆಲೆಯೊಂದಿಗೆ ವಿವರಿಸಿ.

III. ಒಂದು ಪದ್ಯ ಭಾಗದ ಸಂದರ್ಭ ತಿಳಿಸಿ ಸ್ವಾರಸ್ಯ ವಿವರಿಸಿರಿ :

(1×5=5)

1) ಉರದೆಡೆಗೆ ತುಡೆ ಜಯಶ್ರೀ |

ಗಿರಲೆಡೆ ನಿನಗಪ್ಪುದಾಸುಯೋಧನ ನೋಳ್ ಶ್ರೀ ||

ಗಿರಲೆಡೆ ಯಪ್ಪುದು ಮೇಣ್ ದಿನ |

ಕರಸುತ ತೊಡಳುಂಟೆ ಬಗೆಯ ಸಂದೆಯಮುಂಟೆ

ಅಥವಾ

2) ಭಯವಾಗುತ್ತಿದೆ ನನಗೆ

ಅವನ ಉಸಿರಾಟ ಕೇಳಿಸುತ್ತಿದೆ

ಪರಿಮಳ ನನ್ನನ್ನು ಆವರಿಸಿದೆ

ಅವನ ರುಚಿ, ಸ್ಪರ್ಶವೂ ದಕ್ಕುತ್ತಿದೆ

ಆದರೂ ದೃಷ್ಟಿಗೆ ಸಿಗುತ್ತಿಲ್ಲ . . .

ಯಾರಿರಬಹುದು ಇವನು ?

IV. ಅ) ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಸಂದರ್ಭ, ಅರ್ಥ ವಿಶೇಷತೆಗಳನ್ನು ಬರೆಯಿರಿ :

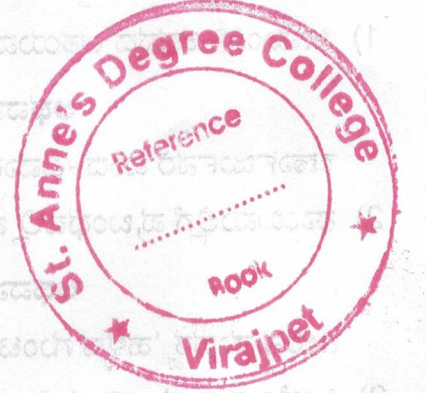
(2×4=8)

1) ಕನಸುಗಣ್ಣಿಗೆ ದಾರಿಯಲ್ಲೂ ಏನೋ ಧ್ಯಾನ

2) ಸೂರ್ಯ ಮುಳುಗಿದರೂ ಬೆಳಕು ಮುಳುಗದು.

3) ಬರುವಂ ಸಾರಥಿಯಲ್ಲ

4) ದೀಪ ಕೊಂಡವರಿಗೆ ದೊರೆ ಪದವಿ ದೊರಕಲಿ.





BCKAL 231/204/BFDKAL 231/BFTKAL 231/BIDKAL 231/BSAKAL 231/FNDKAL 231

ಅ) ಎರಡಕ್ಕೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ :

(2×4=8)

- 1) ಕೆ.ಎಸ್. ನರಸಿಂಹಸ್ವಾಮಿ.
- 2) ಚಂದ್ರನ ಕಕ್ಕೆ.
- 3) ಮುತ್ತೈದೆ.
- 4) ಲಲಿತ.

ಇ) ಎರಡಕ್ಕೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ :

(2×4=8)

- 1) ಒಂದು ಒಡವೆಯ ಪ್ರಕರಣ.
- 2) ಸವಿತಾ ನಾಗಭೂಷಣ.
- 3) ಗಂಡ ಹೆಂಡಿರ ಜಗಳ.
- 4) ಪ್ರಜ್ಞಾ.



V. ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದೊಂದು ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿ :

(12×1=12)

- 1) ಎನ್. ಎಸ್. ಲಕ್ಷ್ಮಿನಾರಾಯಣ ಭಟ್ಟರ ಹೆಸರಿನ ಪೂರ್ಣರೂಪವೇನು ?
- 2) ಕವಿ ಜಂಬಣ್ಣ ಅಮರಚಿಂತ ಅವರ ಹುಟ್ಟೂರು ಯಾವುದು ?
- 3) ಕೊಂಕಣಿ ಭಾಷೆಯಾವ ಭಾಷಾ ಪರಿವಾರಕ್ಕೆ ಸೇರಿದೆ ?
- 4) 'ಬಾಳೆಗೊನೆ ಗಿಡಹಾಕಿತು' ಇದು ಯಾರ ಕೃತಿ ?
- 5) ಸುಬ್ರಹ್ಮಣ್ಯ ರಾಜೇ ಅರಸ್ ಅವರ ಕಾವ್ಯನಾಮ ಯಾವುದು ?
- 6) 'ತೆರೆದ ಬಾಗಿಲು' ಕವನ ಸಂಕಲನ ಯಾರ ಕೃತಿ ?
- 7) ರಾವ್‌ಬಹದ್ದೂರ್ ಅವರ ಪೂರ್ಣ ಹೆಸರೇನು ?
- 8) ಚಂದ್ರ ಯುದ್ಧಗಳಲ್ಲಿ ಮೂಗು ತೂರಿಸುವುದನ್ನು ಕಂಡುಹಿಡಿದ ವಿಜ್ಞಾನಿ ಯಾರು ?
- 9) ಸವಿತಾ ನಾಗಭೂಷಣ ಅವರ ಪತಿಯ ಹೆಸರೇನು ?
- 10) 'ಕರುಣಾಳು' ಸಾಹಿತ್ಯದ ಯಾವ ಪ್ರಕಾರಕ್ಕೆ ಸೇರಿದ ಕೃತಿ ?
- 11) ಕಾದಂಬರಿ ಎಂದರೇನು ?
- 12) ಗುಲಾಬಿ ಯಾರು ?

BASGEF 231/BCMGEF 231/BSCGEF 231/BCAGEF 231/ BBAGEF 231



**Third Semester Examination, April 2021
Common to All Other UG Courses
(Choice Based Credit System) (2020-21 Batch Onwards)
GENDER EQUITY**

**ಲಿಂಗತ್ವ ಸಮನ್ವಯ
(Elective Foundation Course)
(Compulsory Paper)**

Max. Marks : 40

Time : 2 Hours

SECTION – A

Note : a) Answer **any ten** of the following.

(2×10=20)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ **10** ಪ್ರಶ್ನೆಗಳನ್ನು ಉತ್ತರಿಸಿರಿ.

b) Answer **each** question in **2-3** sentences.

ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ **2-3** ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ.

1. What is Gender Equity ?

ಲಿಂಗತ್ವ ಸಮನ್ವಯ ಎಂದರೇನು ?

2. Give any two examples of Gender Bias.

ಲಿಂಗ ಪೂರ್ವಗ್ರಹಕ್ಕೆ ಸಂಬಂಧಪಟ್ಟಂತೆ ಯಾವುದಾದರೂ ಎರಡು ಉದಾಹರಣೆಗಳನ್ನು ಕೊಡಿ.

3. What is discrimination against women ?

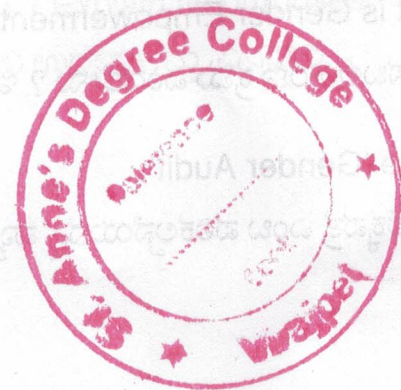
ಮಹಿಳೆಯರ ಮೇಲಿನ ತಾರತಮ್ಯ ಎಂದರೇನು ?

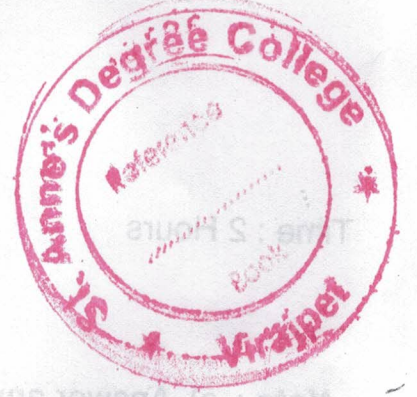
4. What is 'Socialisation' ?

'ಸಾಮಾಜಿಕರಣ' ಎಂದರೇನು ?

5. What is Matriarchy ?

ಮಾತೃ ಪ್ರಧಾನ ವ್ಯವಸ್ಥೆ ಎಂದರೇನು ?





6. What is Sex Ratio ?
ಲಿಂಗ ಅನುಪಾತ ಎಂದರೇನು ?
7. Give two reasons for Infanticide.
'ಶಿಶು ಹತ್ಯೆ'ಗೆ ಯಾವುದಾದರೂ ಎರಡು ಕಾರಣಗಳನ್ನು ಕೊಡಿ.
8. State any two adverse effects of Child Marriage.
ಬಾಲ್ಯ ವಿವಾಹದ ಯಾವುದಾದರೂ ಎರಡು ದುಷ್ಪರಿಣಾಮಗಳನ್ನು ತಿಳಿಸಿ.
9. What is trafficking in women ?
ಮಹಿಳೆಯರ ಕಳ್ಳ ಸಾಗಾಟ ಎಂದರೇನು ?
10. What is women empowerment ?
ಮಹಿಳಾ ಸಬಲೀಕರಣ ಎಂದರೇನು ?
11. What is commodification of women ?
ಸ್ತ್ರೀಯರ ಶರೀರದ ಸರಕೀಕರಣ ಎಂದರೇನು ?
12. Mention any two special features of Child Marriage Prohibition (Amendment) Act, 1978.
ಬಾಲ್ಯ ವಿವಾಹ ನಿಷೇಧ (ತಿದ್ದುಪಡಿ) ಕಾಯ್ದೆ, 1978ರ ಯಾವುದಾದರೂ ಎರಡು ವಿಶೇಷ ಲಕ್ಷಣಗಳನ್ನು ತಿಳಿಸಿ.
13. What is dowry ? Why taking dowry is illegal ?
'ವರದಕ್ಷಿಣೆ' ಎಂದರೇನು ? ಅದನ್ನು ಪಡೆಯುವುದು ಯಾಕೆ ಕಾನೂನು ಬಾಹಿರ ?
14. What is Gender Empowerment Measure ? Give a definition.
ಲಿಂಗ ಸಬಲೀಕರಣ ಕ್ರಮ ಎಂದರೇನು ? ಇದನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿರಿ.
15. Define 'Gender Audit'.
ಲಿಂಗ ಲೆಕ್ಕಪತ್ರ ಎಂಬ ಪರಿಕಲ್ಪನೆಯನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿರಿ.

SECTION – B

Note : a) Answer **any four** of the following.

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ನಾಲ್ಕು ಪ್ರಶ್ನೆಗಳನ್ನು ಉತ್ತರಿಸಿರಿ.

(5×4=20)

b) Answer **each** in about **300** words.

ಪ್ರತಿ ಪ್ರಶ್ನೆಯನ್ನು **300** ಪದಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ.



16. What is Internalization of Gender values ? Explain.
ಲಿಂಗ ಮೌಲ್ಯಗಳ ಅಂತರಂಗೀಕರಣ ಎಂದರೇನು ? ವಿವರಿಸಿ.
17. Distinguish between Gender Equity and Gender Equality.
'ಲಿಂಗತ್ವ ಸಮನ್ವಯ' ಮತ್ತು 'ಲಿಂಗತ್ವ ಸಮಾನತೆ'ಯ ನಡುವಿನ ವ್ಯತ್ಯಾಸಗಳನ್ನು ತಿಳಿಸಿರಿ.
18. Explain different forms of domestic violence.
ಗೃಹ ಹಿಂಸೆಯ ವಿವಿಧ ಸ್ವರೂಪಗಳನ್ನು ವಿವರಿಸಿರಿ.
19. How is the state of Women's participation in Indian politics ? Analyse.
ಭಾರತದ ರಾಜಕಾರಣದಲ್ಲಿ ಮಹಿಳೆಯರ ಪಾಲ್ಗೊಳ್ಳುವಿಕೆಯ ಬಗ್ಗೆ ವಿಶ್ಲೇಷಿಸಿ.
20. Describe the main features of 'CEDAW'.
'CEDAW'ನ ಪ್ರಮುಖ ಲಕ್ಷಣಗಳನ್ನು ಚರ್ಚಿಸಿರಿ.
21. Examine the importance of Millennium Development Goals (MDG's).
ಸಹಸ್ರಮಾನ ಅಭಿವೃದ್ಧಿ ಉದ್ದೇಶಗಳ ಮಹತ್ವಗಳನ್ನು ಚರ್ಚಿಸಿ.
22. Explain the salient features of the Protection of Women from Domestic Violence (Prevention) Act, 2005.
ಗೃಹ ಹಿಂಸೆ (ನಿವಾರಣೆ)ಯಿಂದ ಮಹಿಳೆಯರ ಸಂರಕ್ಷಣಾ ಕಾಯ್ದೆ, 2005ರ ಪ್ರಮುಖ ಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ.
23. What is 'GEM' (Gender Empowerment Measures) ? Explain its purposes.
'GEM' (ಲಿಂಗ ಸಬಲೀಕರಣ ಕ್ರಮ) ಎಂದರೇನು ? ಇದರ ಪ್ರಮುಖ ಉದ್ದೇಶಗಳನ್ನು ವಿವರಿಸಿರಿ.