

Faculty of Commerce, Science and Business Management
B.Com/B.Sc/BBA I-Year CBCS I-Semester Backlog Examinations - Aug-2023

Paper: English

Time: 3 Hours

Max. Marks: 70

Section-A

- I. Answer any Five of the following questions.** (5×4=20 Marks)
1. Write the definitions with two examples for each of the following.
 - a. Common Noun
 - b. Material Noun
 - c. Possessive Pronoun
 - d. Demonstrative Pronoun
 2. Fill in the blanks with suitable verb forms.
 - a. Pramod (go) to Mumbai yesterday.
 - b. My father (cook) for us every day.
 - c. Ganesh (come) home next month.
 - d. Look! It..... (rain) now.
 3. Choose the correct option.
 - a. Life (be/are/is) beautiful.
 - b. In hard times one must..... (is/be/was) positive.
 - c. My brother studied graduation while I..... (was/were/is) just a school student.
 - d. We have to Mysore recently. (is/be/been)
 4. Use the suitable indefinite pronouns.
 - a. He..... (him/himself) is responsible for his bad condition.
 - b. This is the doctor..... (whom/who) treated me for haemorrhoids.
 - c. This pen is(yours/your)
 - d. She writes short stories. (some/ someone) are very good.
 5. Fill in the blanks with the words formed by adding suitable suffixes to the words in brackets.
 - a. We will see India (glory) in the next decade.
 - b. Socrates was a great Greek (Philosophy)
 - c. Smoking cigarettes is not (health) habit.
 - d. Today is (Nation) Voters' Day.
 6. Match the column A with column B to form meaningful collocations.

A	B
a. nagging	1. melody
b. haunting	2. threat
c. sweeping	3. campus
d. sprawling	4. statement
 7. Pick out Odd sound word of the following.

a. thick	these	maths
b. gem	get	goal
c. unit	uniform	upset
d. sing	sad	sugar
 8. Identify the origin of the word that is derived from.

a. century	b. telegram	c. factory	d. ambiguous
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SECTION-B

II. Answer the following questions.

(5×10=50 Marks)

9. A. i. i. Annotate the following line.

“A successful thief must be pitiless”

ii. What is the Irish Airman’s attitude towards the war he is fighting in?

OR

B. i. Read the paragraph given below and answer question.

I have made a study of men’s faces when they have lost something of material value. The greedy man shows panic, the rich man shows anger, and the poor man shows fear. But I knew that neither panic nor anger nor fear would show on Arun’s face when he discovered the theft; only a terrible sadness not for the loss of the money but for my having betrayed his trust.

1. What has the narrator studied?
2. What does a greedy man do when he loses some thing?
3. How did Arun feel when he discovered the theft?
4. Who exhibits fear when something is lost?
5. Write the meaning of the word, ‘betrayed’.

ii. Write a summary of the short story, The Thief.

10. A. i. Annotate the following lines.

“The years to come seemed waste of breath,
A waste breath the years behind”

ii. Write phonetic transcription to the following words.

1. green
2. make
3. white
4. write

OR

B. i. Annotate the following line.

“Don’t send him away “

ii. Read the paragraph and answer the questions.

Mr. Siva Shanker was unable to make up his mind. He called his wife. He looked at Sidda and said” he doesn’t seem to me worse than the others who have had” .Leela, their five year old daughter , came out , looked at Sidda and gave a cry of joy”. Oh, father ! she said, I like him, Don’t send him away. Let us keep him in our house” and that decided it.

1. Whom did Mr. Siva Shanker call ?
2. Write the antonym of “Unable”?
3. Who is Leela ?
4. Who is “I” in this paragraph ?
5. What is the age of Leela?

11. A. i. Annotate the following lines.

“God save the Prince! (laughs wildly) Colonel Girnitza, I never thought death ... could be ... so amusing.”

ii. Read the passage given here under and answer the questions that follow.

There may be many reasons why young people become addicted to online games. Dr. James Brown, who studies the issue, believes that the games give people a chance to prove themselves. He says that doing well in these games gives players a real sense of achievement. They can become the centre of their virtual universe. This feeling of success may be harder to find in the real world, where many teenagers face exam stress and other problems.

1. Who is Dr James Brown?
2. What does James Brown believe?
3. What does playing games give to the players?
4. Who can become the centre of their virtual universe?
5. Write a meaning of the word, 'virtual.'

OR

B. i. Analyze the character of Dr Stronetz.

ii. Imagine that you want to give an important message to your friend on phone. But your friend is not available to receive it on phone. Your phone asks you to leave message to be passed on to your friend. Write a 'Leaving Message on Answering Machine.'

12. A. i. "First Deserve then Desire." Elucidate.

ii. Write the words in English to the following phonetic transcriptions.

1. /grəʊ/ 2. /neɪʃən/ 3. /kʌntri/ 4. bʌt 5. θæŋk

OR

B. i. Read the following lines and answer the questions that follow.

Dimitri: Death has come twice for me in one evening. I'm afraid he must be in earnest. (Passionately) Why didn't you let them kill me? That would have been better than this 'to-be-left-till called-for business. (paces across to window and looks out. Turns suddenly) Stronetz! You offered me a way of escape from a cruel death just now. Let me escape now from a crueler one. I am a monarch. I won't be kept waiting by death. Give me that little bottle.

1. What are the two deaths the narrator is talking about?
2. Who is Stronetz?
3. Who offered escape from cruel death and to whom?
4. What is 'that little bottle?'
5. Write the meaning of the phrase 'to-be-left-till called -for' business.

ii. Write the noun forms to the following verbs.

1. Appoint 2. Calculate 3. Manage 4. Judge 5. Examine

13.A. i. Write a dialogue of ten exchanges with your classmate introducing each other on the first day at your college.

ii. Write antonyms for the following words.

1. Detach 2. Merit 3. Understand 4. Intelligent 5. Approve

OR

B. i. Write a long note on the importance of developing positive attitude to life.

ii. Supply the synonyms to the following words.

1. Conceal 2. Ecstasy 3. Easy 4. Primary 5. Comprehend

అ- విభాగము

- I. ఏవైనా నాలుగు ప్రశ్నలకు సమాధానం రాయండి. [4*5=20]
1. "సుఖము దుఃఖంబు కార్యార్థి చూడడెందు" సందర్భ సహిత వ్యాఖ్య రాయండి.
 2. నా పదవి వేల్పుల రేని కెక్కడ? సందర్భ సహిత వ్యాఖ్య రాయండి.
 3. అంబరము, ఉదకం, మిత్తుడు, రాజు, గురువు పదాలకు నానాధాలు రాయండి.
 4. దేవతలు, అడవి, భూమి, సంపద, హనుమంతుడు పదాలకు పర్యాయ పదాలు రాయండి.
 5. శ్రీ శ్రీ కవి పరిచయం ?
 6. ఓరుగల్లు కోట.

ఆ- విభాగం

- I. ఈ క్రింది ప్రశ్నలకు వివరంగా సమాధానములు రాయండి. [5*10=50]
7. ఈ క్రింది పద్యానికి కవి పరిచయం, సందర్భం, ప్రతిపదార్థ తాత్పర్యం, వ్యాకరణాంశాలు రాయండి.
 - (a). విమలయశోరిధి ! పురుషవృత్త మెఱుంగుచునుండు జోవే
దములును బంచభూతములు ధర్మవు సంధ్యలు నంతరాత్మయున్
యముడును జంద్రసూర్యులు నహంబును రాత్రియు నన్నహాపదా
ర్థములిపి యుండగా నరుండు దక్కొననేర్చునె తన్ను మ్రుచ్చిల్న్
(లేదా)
 - (b). అవె నీచుట్టప్పు జిల్కపిండైదురుగా నన్యన్యమేతెంచె; న
ల్లవె నీతోడి సతీర్థ్య శాలకలు సఖ్యంబెంతయుం దెల్పుచు
న్నవి శోకప్రమదోష్టశీతఘన బాష్పాంబుప్రవాహంబులన్,
భవదంత:కరణమ్ము మమ్ము నకటా ! పాయంగనెట్లుండెన్ !
 8. (a). "గొడగూచి కథ" పాఠ్యభాగ సారాంశం వివరించండి.
II. (లేదా)
(b). " రాజు- కవి " పాఠ్యభాగం ద్వారా కవి యొక్క ప్రణాళికలు వివరించండి.
 9. (a). రుద్రమదేవి మహాదేవరాజును ఓడించిన విధానం?
(లేదా)
(b). రుద్రమదేవి కాలం నాటి సామాజిక, రాజకీయ, ఆర్థిక స్థితిగతులు వివరించండి.
 10. (a). మదనమంజరి పాత్ర చిత్రణ ?
(లేదా)
(b). గోన ఋద్ధారెడ్డి పాత్ర చిత్రణ?
 11. (a). వాక్యం నిర్వచించి, వాక్య భేదాలు వివరించండి.
(లేదా)
(b). తల్లిదండ్రులు, నీచ మానవులు, దేవర్షి గణము, గంగా నది, కోటి విద్యులు ఈ పదాలకు విగ్రహ వాక్యం రాసి, సమాసం పేరు రాయండి.

Faculty of Commerce, Science and Business Management

B.Com/B.Sc/BBA I-Year CBCS I-Semester Backlog Examinations – Aug, 2023

Subject: Hindi

Max Marks: 70

Time: 3 Hrs.

भाग – अ

I. निम्न में से किन्ही 4 प्रश्नों का उत्तर लिखिए 5X4=20

1. 'उदारता' से आप क्या समझते हैं? अपने शब्दों में लिखिए।
2. ग्राहकों पर बाज़ार किस तरह का जादू चलाता है, अपने शब्दों में लिखिए।
3. सदगति कहानी में पं. घासीराम, दुःखी को कौन कौन से काम करने के लिए आदेश देता है ?
4. महादेवी वर्मा जी के जीवन और साहित्य पर टिप्पणी लिखिए।
5. जयशंकर प्रसाद जी के जीवन पर टिप्पणी लिखिए।
6. काल किसे कहते हैं, स्पष्ट करते हुए काल के कितने प्रकार है लिखिए।

भाग – आ

निम्न 8 प्रश्नों में से किन्ही 5 प्रश्नों का उत्तर लिखिए 5X10=50

9. निम्न लिखित 3 वाक्यांशों में से किन्ही 2 का संदर्भ सहित व्याख्या कीजिए।
 - अ. जो लोग 'लालच' से बच सकते हैं, अरनी इच्छाओं को रोक सकते हैं, वे ही शक्ति संपन्न और प्रभाव शाली बनने में समर्थ होते हैं।
(या)
 - आ. बाज़ार में एक जादू है। वह जादू आंखों की राह काम करता है। वह रूप का जादू है। पर जैसे चुम्बक का जादू लोहे पर ही चलता है, वैसे ही इस जादू की भी मर्यादा है।
(या)
 - इ. प्राचीन भारत आसपास की दुनिया में जगत-गुरु समझा जाता था, किन्तु साथ ही वह जगत शिष्य भी था।
10. 'भाभी' संस्मरण का सारांश लिखिए।
11. "सदगति" कहानी का सारांश लिखिए।
12. "चीफ की दावत" कहानी का सारांश लिखिए।
13. निम्न लिखित 3 चरित्रों में से किसी 1 का चरित्र चित्रण लिखिए।
(अ). छोटा जादूगर (आ). सर्वदयाल (इ). पं. परमसुख

14. निम्न लिखित 3 लेखकों में से किसी एक लेखका परिचय संक्षिप्त में लिखिए।

(अ). भीष्म साहनी (आ). सुदर्शन (इ). प्रेमचन्द

15. निम्न लिखित वाक्यांशों का उत्तर लिखिए।

(अ). सुधीर हैदराबाद जा रहा है। (भूत काल में लिखिए)

(आ). पति -----अपनीपत्नी -----साड़ीखरीदा है। (कारक जोड़कर लिखिए)

(इ). मैं जाते ही वह चला गया। (वाक्य शुद्ध कीजिए)

(ई). Governor शब्द का हिन्दी अनुवाद कीजिए।

(ई) "डाकिया" को अंग्रेज़ी में क्या कहते हैं।

16. अनुवाद कीजिए।

क. हिन्दी से अंग्रेज़ी में अनुवाद कीजिए।

(अ). रामायण में भरत का चरित्र उदात्त है।

(आ). मनुष्य को सामाजिक नियमों का पालन करना चाहिए।

(इ). भारत में आबादी के रोकथान में सभी नागरिकों का योगदान आवश्यक है।

(ई). शिक्षा सबसे शक्तिशाली हथियार है, जिसमें दुनिया को बदलने की शक्ति है।

(उ). हार तो वही सबक है जो आपको बेहतर होने का मौका देती है।

(या)

ख. अंग्रेज़ी से हिन्दी में अनुवाद कीजिए।

A. Nothing is impossible

B. Success is not final and failure is not fatal.

C. when you feel like quitting, Remember why you started.

D. great things never come from comfort zone.

E. Education is a wealth, which cannot be taken away from you.

Faculty of Commerce, Sciences and Business Management

B.Com/B.Sc/BBA I-Year, CBCS-I Semester Backlog Examinations

PAPER: CLASSICAL PROSE, MODERN PROSE, HISTORY OF ARABIC

LITERATURE AND GRAMMAR

Time: 3 Hours

Max Marks: 70

Section – A (4 x 5 = 20)

I. Answer any FOUR questions from the below. Each question carries 5 marks:

1. Translate the following with reference to the context:

ألم أذبح لك صدرك O ووضعنا عنك وزرك O

2. Answer in Arabic:

ما المراد با ظافة العامة؟

3. Write any Five examples of "3 : وا : 3" (Definite & Indefinite Noun):

اكتب #سنة أمثلة المعرفة وا كرة :

4. What is the meaning of Mu'allaqat?

ما معـ الـعـلـقـات ؟

5. Write any Five meaning of the following words:

حديقة ، تصف ، 6ية ، ، 3صمة الـجـلـة ، مدرسة ، آسـلـن ، بيت .

6. Convert any Five of the following singular words into plurals :

نهر ، 3 ، أخ ، عرـض ، طالب ، مهندس ، مدينة ، جامعة .

::2::

Section – B (5x10=50)

II. Answer all questions. Each question carries 10 marks.

7. (A) Write the explanation of Sura "Inshirah" .

أكتب تفهسل سورة "الإنشراح".

Or

(B) Write the summary of Suratut Teen.

أكتب خلاصة "سورة رة".

8. (A) Write the summary of the Lesson "Al Nazafah".

أكتب خلاصة درس "الظافة".

Or

(B) Write in detail about the "Al Hiwar".

أكتب عن "أوار" مفصلا.

9. (A) Write about the " "word in Arabic and its kinds:

أكتب عن الامة وأقسامه.

Or

(B) Explain about Definite and Indefinite

أكتب عن اكرة و المعرفة.

10. (A) Write about " Al Muallaqhaat Al sabu"

أكتب عن "العلقااا السبع".

Or

(B) Write a note on "Poetry during Pre-Islamic Period":

أكتب عن "الشعر ة العهه".

11. (A) How many kinds of Noun in Arabic? Explain them with examples:

> م نوز الالسم؟ إءح بالأملة.

Or

(B) Write about the plural and its kinds:

أكتب عن السمع و أقسامه.

Faculty of Science/Commerce/Business Management
B.Sc/B.Com//BBA. I-Year, CBCS-I Semester Backlog Examinations – Aug--2023
Paper: Basic Computer Skills

Time: 2 Hours

Max Marks: 40

Section-A

I. Answer any two of the following questions

(2x5=10 Marks)

1. Explain Types of Computers?
2. Define Operating System ?
3. Describe benefits of Internet?
4. Explain any four mathematical Functions in MsExcel ?

Section-B

II. Answer the following questions

(2x15=30 Marks)

5. (a) Define Computer? Explain Classification of computers? .

(OR)

(b) Explain about Mail Merge?

6. (a) Define Graph ? Explain Types of Graph in MSEXCEL.

(OR)

(b) Explain Advantages of MSPowerPoint with 5 Slides? .

SECTION-A**I. Answer any Six Questions Each Carries Five Marks****6 x 5 = 30 Marks**

1. If $u = \sin^{-1} \left(\frac{x^2+y^2}{x+y} \right)$, then show that $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = \tan u$
2. Evaluate $\lim_{(x,y) \rightarrow (0,0)} \left(\frac{x^2 y^2}{x^4 + y^2} \right)$
3. $x^y = y^x$ then find $\frac{dy}{dx}$
4. Define (i) Composite Function (ii) Implicitly Function (iii) Stationary point (iv) Extreme point (v) Extreme value
5. Find the envelop of the family of the straight line $y = mx + \sqrt{a^2 m^2 + b^2}$
6. Obtain the evolute of the parabola $y^2 = 4ax$
7. Find the length of the arc of the curve $y = \log \sec x$ from $x = 0$ to $x = \frac{\pi}{3}$
8. Rectify the curve $x = a(\theta + \sin \theta), y = a(1 - \cos \theta)$
9. Find dz/dt when $z = x^2 + y^2, x = at^2, y = 2at$
10. Find the radius of the curvature at the point (3, 3) for the curve $x^3 + y^2 - 2x^2 + 6y = 0$

SECTION-B**II. Answer all the following Questions Each Carries Ten Marks****4 x 10 = 40 Marks**

11. (A). If $u = \log (x + y + z - 3xyz)$ then show that

$$(i). \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} \right) u = \frac{-9}{x+y+z}$$

$$(ii). \left(\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} + \frac{\partial^2 u}{\partial z^2} \right) u = \frac{-3}{x+y+z}$$

OR

- (B). State and prove Euler's theorem on homogeneous function of two variables and show

$$\text{that } x^2 \frac{\partial^2 u}{\partial x^2} + 2xy \frac{\partial^2 u}{\partial xy} + y^2 \frac{\partial^2 u}{\partial y^2} = n(n-1)z$$

12. (A). Expand $f(x, y) = x^2 + xy + y^2$ in power of $(x - 2)$ and $(y - 3)$.

OR

- (B). Discuss the maximum or minimum values of given by $u = x^3 y^2 (1 - x - y)$

13. (A) For the cycloid $x = a(t + \sin t), y = a(1 - \cos t)$ prove that $P = 4a \cos \frac{t}{2}$.

OR

- (B). ρ_1, ρ_2 are the radii of curvature at the corresponding points of a cycloid and its evolutes prove that $\rho_1 + \rho_2$ is a constant.

14. (A). State and prove Pappus theorem for Surface areas.

OR

- (B). Find the whole length of asteroid $x^{2/3} + y^{2/3} = a^{2/3}$

Paper: **Mechanics and Oscillations**

Time: 3 Hours

Max Marks: 70

SECTION-A

- I. Answer any Six of the following questions. (6×5=30 Marks)
1. Define divergence of a vector. Mention its physical significance.
 2. Write Green's theorems.
 3. State and prove work-energy theorem
 4. The kinetic energy of a metal disc rotating at a constant speed of 5 rpm is 100J. Find the angular momentum of the disc.
 5. What is coriolis force? Explain its consequence.
 6. Write a short note on four vector formalism.
 7. Explain the advantage of compound pendulum over simple pendulum in determination of 'g'.
 8. Distinguish between free and forced oscillations.
 9. If two electrons are heading towards a common point with 0.8c and 0.5c velocities in opposite directions, find their relative velocity.
 10. What is Torsional pendulum? Write its applications.

SECTION-B

- II. Answer the following questions. (4×10=40 Marks)
11. a) State and prove Gauss theorem of divergence.
(OR)
b) State Stokes theorem. Using Stoke's theorem prove that $\int (\mathbf{r} \cdot d\mathbf{l}) = 0$ where the position vector $\mathbf{r} = x\mathbf{i} + y\mathbf{j} + z\mathbf{k}$
 12. a) Calculate thrust on a rocket. Write a short note on multistage rocket.
(OR)
b) Derive Euler equations for rigid body rotating about a fixed point.
 13. (a) Obtain the equation of motion under central force
(OR)
b) State the postulates of special theory of relativity. Derive the Lorentz transformations equations
 14. (a) What are Lissajous figures? Find the resultant of two SHMs of same frequency acting along two mutually perpendicular directions.
(OR)
b) Solve the differential equation of damped harmonic oscillator and discuss under damped case.

Faculty of Science
B.Sc I-Year CBCS I-Semester Backlog Examinations – Aug- 2023
Paper: Descriptive Statistics and Probability

Time: 3 Hours

Max Marks: 70

SECTION-A

I. Answer any Six of the following questions. (6×5=30 Marks)

1. Give two examples where geometric mean and harmonic mean would be most suitable averages.
2. Define coefficient of skewness and kurtosis based on moments.
3. Define mathematical expectation of probability.
4. Define dependent and independent event probability.
5. Define two dimensional or joint probability mass function with an example.
6. If
$$P(x) = \frac{x}{15} \quad ; \quad x = 1,2,3,4,5$$
$$=0 \quad ; \quad \text{otherwise}$$

Find i) $P(X=1 \text{ or } 2)$ ii) $P(1/2 < X < 5/2 \mid X > 1)$

7. If X is a random variable, prove that $|E(X)| \leq E(|X|)$.
8. Define m.g.f. and prove that the m.g.f of sum of independent random variables is equal to the product of their respective m.g.f's.
9. Define standard deviation. Also mention its merits and demerits.
10. Two cards are drawn at random from a pack of 52 cards. Find the probability that the cards drawn are (i) a diamond and a spade (ii) a king and a queen.

SECTION-B

I. Answer the following questions. (4×10=40 Marks)

11. a) Establish the relation between the moments about mean in terms of moments about any point.

(OR)

b) Define primary and secondary data and explain the sources of collecting them. Which of these are more reliable and why?

12. a) State and prove addition law of probability for n events.

(OR)

b) State and prove Boole's inequalities.

13. a) The following is the distribution function of a discrete random variable X.

x	-3	-1	0	1	2	3	5	8
P(x)	0.1	0.3	0.45	0.5	0.75	0.9	0.95	1.0

- i) Find the probability distribution of X
- ii) Find $P(X \text{ is even})$ and $P(1 \leq X \leq 8)$
- iii) Find $P(X = -3 \mid X < 0)$ and $P(X \geq 3 \mid X > 0)$.

(OR)

b) A continuous random variable X follows the probability law

$$f(x) = Ax^2 \quad ; 0 \leq x \leq 1$$

$$= 0 \quad ; \text{otherwise}$$

Determine A and find

- i) $P(0.2 < X < 0.5)$
- ii) $P(X < 0.3)$
- iii) $P(1/4 < X < 1/2)$
- iv) $P(X > 3/4 \mid X > 1/2)$

14. a) State and prove Chebychev's inequality.

(OR)

b) Let the random variable X assume the value 'r' with the probability law

$$P(X = r) = q^{r-1} p \quad ; r = 1, 2, 3, \dots$$

Find the m.g.f. of X and hence find its mean and variance.

Faculty of Science
B.Sc (Computer Science) I-Year CBCS I-Semester Backlog Examinations – Aug,2023
Paper: Programming in C

Time: 3 Hours

Max Marks: 70

SECTION-A

I. Answer any Six of the following questions.**(6×5=30 Marks)**

1. Discuss the Structured Programming Concept.
2. What are C Tokens? Explain them.
3. Differentiate between if-else-if and switch Statements.
4. What are Formatted and Non Formatted Input Output Functions?
5. Write a short note on Inline Functions.
6. Define Pointer. Write the uses of Pointers.
7. How to declare Array of Structures? Write the code.
8. Specify any two File Management Functions.
9. Explain the Expression Evaluation in C.
10. Explain the Iterative Statements in C.

SECTION-B

II. Answer the following questions.**(4×10=40 Marks)**

11. (a) Discuss the Generations and Classification of Programming Languages.

OR

- (b) Define Algorithm. Specify the different ways of stating an Algorithm. Describe the Strategy for Designing Algorithms.

12. (a) Describe the Special Control Statements- goto, break, continue, return and exit.

OR

- (b) Define an Array. Specify the Memory representation in Arrays. Write a C program for 2x2 Matrix Addition.

13. (a) Define Function. Write the Classification of Functions. Explain String Functions.

OR

- (b) Write the Pointer Arithmetic Operations. Write a Pointer program to demonstrate Pointers to Pointers.

14. (a) Describe how to Declare, Initialize and Access members of a Structure and Union.

OR

- (b) What are Files of Records? Write a C program to Copy the content of one file to another file.

Faculty of Science
B.Sc (Data Science) I-Year CBCS I-Semester Backlog Examinations – Aug, 2023
Paper: Fundamentals of Information Technologies

Time: 3 Hours

Max Marks: 70

SECTION-A

I. Answer any Six of the following questions.

(6×5=30 Marks)

1. Draw the block diagram of a data processing system and explain.
2. Write about Input Units.
3. What is ROM? Write about the different types of ROM.
4. Write about Microcontrollers.
5. What is an IP address? Why is it needed?
6. What is client server computing? Explain.
7. Write about Software Quality Attributes.
8. Write about Agile Development approaches.
9. What is an Operating System? Write about its functions.
10. Write short notes on DVD-ROM.

SECTION-B

II. Answer the following questions.

(4×10=40 Marks)

11. a) Explain in detail about different types of Data.

OR

- b) Convert $(345)_{10}$ to binary and hexadecimal equivalent.

12. a) Explain about Secondary Storage Devices.

OR

- b) Describe in detail the structure of CPU.

13. a) Write about Packet Switching Technique.

OR

- b) Explain about the different types of printers.

14. a) Write in detail about Prototyping Model.

OR

- b) Write about Structured Programming Concept.