



Reg. No. :

Name :

V Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.A.R.T.M./B.B.M./
B.C.A/B.S.W/B.A. Afsal-UI-Ulama Degree (CCSS-Reg./Supple./Imp.)
Examination, November 2015

Open Course

5D01B.B.A./B.B.A.(T)/B.B.A(RTM)/COM : BASIC ACCOUNTING
(2012 Admn. Onwards)

Time : 2 Hours

Max. Weightage : 20

PART – A

Two bunches of question carry in **equal** weightage of **one**. Answer **all** questions.

I. Fill in the blanks :

- 1) Machinery is an example of _____ asset.
- 2) Journal is a book of _____
- 3) _____ appears on both side of an account.
- 4) Trial Balance is a _____

(W = 1)

II. Match the following :

A

- 5) Net Profit
- 6) Going concern concept
- 7) Cash discount
- 8) Bank Account

B

- a) Business has indefinite life
- b) Deducted from capital
- c) Personal Account
- d) Prompt payment
- e) Added to capital
- f) Owner is separated from business (W = 1)



PART – B

Answer **any six**. **Each** carries a weightage of **one**.

9. What is book-Keeping ?
10. What is money measurement concept ?
11. What is accounting equation ?
12. What is trade discount ?
13. What is cash book ?
14. What is Journal Proper ?
15. What is a Trial Balance ?
16. What is cost of goods sold ?
17. What is a Trading A/c ?
18. Give two examples for Nominal Accounts. (6×1=6)

PART – C

Answer **any four**. **Each** carries a weightage of **two**.

19. What are the different kinds of Account ?
20. What is Subsidiary journal ? Explain important subsidiary books.
21. Explain Assets, Liabilities and Capital.
22. What are the features of a Balance Sheet ?
23. From the following transactions state the accounts to be debited and credited.
 - 1) Commenced business with Rs. 1,00,000
 - 2) Purchased furniture Rs. 5,000
 - 3) Purchased goods Rs. 8,000
 - 4) Sold goods to 'B' Rs. 10,000
 - 5) Paid salary Rs. 5,000



24. 'X' owes an amount of Rs. 1,000 to 'Y'. 'X' makes the payment promptly and 'Y' allows a reduction of Rs. 50. Show journal entries in the books of 'X' and 'Y'.
25. Enter the following transaction in a simple cash book.

2012

Jan. 1	Balance of cash	2,000
Jan. 2	Paid into Bank	200
Jan. 3	Cash sales	5,000
Jan. 5	Withdrew from bank	100
Jan. 6	Paid rent by cheque	500
Jan. 7	Purchased goods and paid cheque	2,000

26. Prepare 'R' A/c (Debtor) with imaginary figures and balance it. (Minimum 4 transactions). (4×2=8)

PART – D

Answer **any one**. **Each** question carries a weightage of **four** :

27. Explain any five accounting conventions.
28. Enter the following transactions in a cash book with Cash and Bank columns.

2013

		Rs.
Aug. 1	Cash in hand	3,000
	Cash at Bank	4,000
" 2	Cash sales	12,000
" 4	Goods Purchased	9,000
" 6	Rent paid by cheque	2,500
" 8	Cash paid into bank	3,000
" 21	Cheque received from Hari	5,000
" 22	The above cheque paid into bank	
" 23	Withdraw from bank for office	2,000
" 29	Bank charges debited by bank	300
" 31	Personal drawings from bank	600



29. From the following Trial Balance prepare a Trading and Profit and Loss Account for the year ended 31st Dec. 2013 and Balance Sheet as on that date.

Particulars	Dr. Rs.	Cr. Rs.
Stock (1-1-2013)	2,500	
Sundry Debtors	750	
Land and Buildings	5,000	
Cash in hand	800	
Cash at Bank	2,000	
Wages	1,500	
Bills Receivable	1,000	
Interest	100	
Carriage	300	
Bad debts	250	
Repairs	150	
Furniture and Fixture	750	
Depreciation	500	
Rent and Rates	400	
Salaries	1,000	
Drawings	1,000	
Purchases	5,000	
Office Expenses	1,250	
Plant and Machinery	4,250	
Capital		12,500
Interest		300
Sundry Creditors		3,500
Sales		8,600
Bills Payable		2,000
Discount	—	650
Rent	—	950
	28,500	28,500

Stock at end valued at Rs. 5,000.

(1×4=4)



M 9904

Reg. No. :

Name :

V Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.A.R.T.M./B.B.M./
B.C.A./B.S.W./B.A. Afsal-UI-Ulama Degree (CCSS-Reg./Supple./Imp.)
Examination, November 2015
Open Course
5D01 MAT : BUSINESS MATHEMATICS

Time : 2 Hours

Max. Weightage : 20

Instruction: Answer to *all* Parts.

PART – A

This Part consists of **two** bunches of questions carrying **equal** weightage of **one** each. **Each** bunch consists of **four** objective type questions. Answer **all** questions.

I. 1) The range of the function $y = |x|$ is the

2) $\lim_{x \rightarrow 0} \frac{a^x - 1}{x} =$

3) $\frac{d}{dx}(uvw) =$

4) For points of local maxima $\frac{dy}{dx} = 0$ and $\frac{d^2y}{dx^2} < 0$ (W = 1)

II. 5) Revenue – cost =

6) $\int \frac{f'(x)}{f(x)} dx =$

7) $\int \frac{dx}{ax + b} =$

8) If the rate of interest $r_1\%$ for the first n_1 years and $r_2\%$ for the next n_2 years and $r_3\%$ for the next n_3 years then the amount due = (W = 1)

P.T.O.



PART - B

Answer **any six** questions in **one** or **two** sentences **each**. **Each** question carries a weightage of **one**.

9) Evaluate $\lim_{x \rightarrow 1} \frac{x^3 - 1}{x - 1}$.

10) Show that $f(x) = 3x^2 + 2x - 1$ is continuous at $x = 2$.

11) Differentiate with respect to x

$$4x^2 - 7x + 8 - \frac{4}{\sqrt{x}} + \frac{6}{\sqrt{b}}$$

12) Find $\frac{dy}{dx}$ if $y = x^n e^{ax}$.

13) Evaluate $\int \sqrt{ax + b} dx$.

14) Evaluate $\int t^2 e^t dt$.

15) The demand function of a product is $p - 10 e^{-x} = 0$. Find the consumer's surplus when the market price is $p = 1$.

16) The supply function of a product is $y = 3x^2 + 6$. Find the producer's surplus when 10 units are supplied.

17) A pressure cooker is available for Rs. 250 each or 100 cash down payment followed by Rs. 165 after 6 months. Find the rate of interest charged under the instalment plan.

18) Calculate the market equilibrium value for an acre of land yielding Rs. 100 per annum after all expenses, indefinitely into the future. The market rate of interest is 10% p.a.

(W = 6×1=6)

PART - C

Answer **any 4** questions. **Each** carries wt : **2**.

19) Evaluate $\int (2x + 3) \log(x^2 + 3x + 4) dx$.

20) Find the curve whose slope is $\frac{dy}{dx} = \frac{2y}{x}$; $x > 0, y > 0$ and which passes through the point (1, 1).



21) If $y = x^{\log x}$, find $\frac{dy}{dx}$.

22) Evaluate $\lim_{x \rightarrow 0} \frac{\sqrt{1+x} - \sqrt{1-x}}{x}$.

23) A function is defined under $f(x) = \begin{cases} \frac{e^{1/x^2}}{e^{1/x^2} - 1} & \text{when } x \neq 0. \\ 1 & \text{if } x = 0 \end{cases}$

Examine the continuity at $x = 0$.

24) If $y = \sqrt{1-x^2}$ show that $(1-x^2)y_2 - xy_1 = \frac{x}{y_1}$.

25) Find the total revenue between 0 to 10 units of output (x) from the marginal revenue given by $HR = 3\left(\frac{x^2}{20}\right) - 10x + 100$.

26) A machine is purchased for Rs. 10,600. Depreciation is calculated at 8% per annum for the first 3 years and after that 10% per annum for the next seven years, depreciation being calculated on diminishing value. Find the value of the machine after a period of 10 years. (W = 4x2=8)

PART - D

Answer any one. Wt - 4.

27) If $xy = ax^2 + \frac{b}{x}$ show that $x^2y_2 + 2(xy_1 - y) = 0$.

28) A firm has revenue function given by $R = 8D$ where R is gross revenue and D is the quantity sold and production cost function is given by

$C = 1,50,000 + 60\left(\frac{D}{900}\right)^2$. Find the total profit function and the number of units to be sold to get the maximum profit.

29) Find the producer's and consumer's surplus under perfect competition, given the demand function $x = \frac{25}{4} - \frac{p}{8}$ and supply function $p = 5 + x$ (where p is the price and x is quantity). (W = 1x4=4)



M 9738

Reg. No. :

Name :

V Semester B.C.A. Degree (CCSS – Reg./Supple./Improv.)

Examination, November 2015

BCA – Core Course

5B14 BCA : DATA COMMUNICATION AND COMPUTER NETWORKS

Time : 3 Hours

Max. Weightage : 21

SECTION – A

Answer **all** questions. Weightage for a bunch of **four** question is **one**.

1. Point to point transmission with one sender and one receiver is called _____.
2. A set of layers and protocols is called a _____.
3. Dialog control is managed by the _____ layer.
4. _____ are specialized computers that connect three or more transmission lines. (W. = 1)
5. A reliable connection oriented protocol of the transport layer is _____.
6. _____ ciphers reorder the letters to disguise the message.
7. Algorithms that change routing decisions based on changes in topology and traffic are called _____.
8. A connection that allows traffic in only one way is called _____. (W.=1)

SECTION – B

Answer **any 5** questions. Weightage **1 each**.

9. Define topology.
10. What is broadcasting ?
11. What is MAN ?

P.T.O.



- 12. What is bit stuffing ?
- 13. What are now adaptive algorithms ?
- 14. What is cryptography ?
- 15. What is addressing ?
- 16. What is asynchronous data transmission ? (5× 1=5)

SECTION – C

Answer **any 5** questions. Weightage **2 each**.

- 17. Classify networks.
- 18. Explain framing techniques.
- 19. Explain TCP/IP layers.
- 20. Explain Dijkstra's shortest path routing algorithm.
- 21. Discuss design issues in network layer.
- 22. Explain substitution ciphers.
- 23. Discuss optimality principle.
- 24. Compare TCP and UDP. (5× 2=10)

SECTION – D

Answer **any 1** question. Weightage **4 each**.

- 25. Explain about transmission media.
 - 26. Explain the RSA algorithm. (1× 4=4)
-



M 9860

Reg. No. :

Name :

V Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.A.R.T.M./B.B.M./
B.C.A./B.S.W./B.A. Afsal-UI-Ulama Degree (CCSS-Reg./Supple./Improv.)
Examination, November 2015
5D01ENG : ENGLISH FOR COMPETITIVE EXAMINATIONS
Open Course

Time : 2 Hours

Maximum Weightage : 20

PART – A

Answer **all** questions :

(Weightage : 2x1=2)

1. The antonym of abandon is
a) leave b) go c) desert d) pursue
2. Synonym of coarse is
a) refined b) sophisticated c) rough d) smooth
3. I was _____ by heavy traffic.
a) held up b) stuck c) blocked d) gone
4. What time do you _____ for school ?
a) go off b) go c) set off d) left
5. She won't go to school _____ her home work is complete.
a) so b) because c) unless d) if
6. Find the synonym of scatter.
a) disperse b) gather c) collect d) flutter
7. Find the antonym of Despise.
a) hate b) ask c) admire d) tolerate
8. Their music is still popular
a) among b) between c) for d) teenagers

P.T.O.



PART – B

Answer **any six** questions in **1** or **2** sentences **each** :

(Weightage 6×1=6)

Find **one** word for the following :

9. One who is easily deceived.
10. One who eats too much.
11. A Government by nobles.

Correct the sentence.

12. Neither the teacher nor the students is busy.

Fill in the blanks with an idiom that means the phrase given in brackets.

13. We wanted to arrive early so we _____ before breakfast. (to start a journey)
14. When my mother was young she had to _____ (exist with little money)

Correct the sentence.

15. Either Ram or his friends is guilty.
16. Birbal was the wisest of all courtiers. (Change to comparative degree)
17. Some one called the police immediately. (Change into passive voice)

Correct the sentence.

18. My spectacles has been stolen.

PART – C

Answer **any four** questions in **not** more than **a** page :

(Weightage 4×2=8)

19. Rearrange into meaningful sentences.
 - a) cracked bowl a she into egg the small.
 - b) trash the she egg put the into shells.
20. Spot the error and rewrite in correct forms.
 - a) The king is respected greatly
 - b) He carefully does his work



21. Complete the sentence using the correct form of the verbs given in brackets.

I am writing this letter from Perth. I _____ (reach) here a couple of hours ago. I _____ (exhaust) so this will only be a short note before I _____ (go) to sleep. As you _____ (know), I _____ (arrive) at Adelaide last week. My friends _____ (wait) for me at the airport when I _____ (reached) Adelaide. I _____ (enjoy) my stay there.

22. Combine the sentences :

- a) Gita is 80 years old. She walks to temple everyday.
- b) There is a sign in the shop window. It says "ten percent off".
- c) Mr. Smith has silver ware in his house. They are worth millions.

23. Change into reported speech :

- a) Sita asked her friend, "Can you come with me to meet the Principal" ?
- b) Mr. Wells said, "Perhaps we should involve trade union representatives in major decisions".

24. List out adverb of time with examples.

25. How should one present himself/herself at an interview ?

26. What are the problems one could face during an interview ?

PART – D

Answer **any one** of the following :

(Weightage : 4×1=4)

27. You are asked to appear for a job interview for the post of Sales Manager in an insurance company. Give an account of the interview.

28. Describe the tenses with suitable examples.



29. Complete the passage with appropriate words given below :

Mass migration has produced a huge world wide economy of its own which has
 _____ 1) _____ so fast during the past few years that the figures have _____ 2) _____ the
 experts. Last year remittances sent home by migrants was expected to _____ 3) _____
 222 billion dollars according to the World Bank which _____ 4) _____ these figures.
 Remittances to poor countries can also _____ 5) _____ the fact that they do not _____ 6) _____
 much at home to _____ 7) _____ the benefits of remitted cash while _____ 8) _____ some of
 its down side.

- | | | | |
|-------------------|---------------|---------------|-------------|
| 1. a) accelerated | b) increase | c) expand | d) build |
| 2. a) astonished | b) encouraged | c) convinced | d) strike |
| 3. a) rise | b) represent | c) project | d) exceed |
| 4. a) record | b) tracks | c) estimates | d) reports |
| 5. a) mask | b) hide | c) review | d) display |
| 6. a) produce | b) deduce | c) contain | d) deduct |
| 7. a) launch | b) predict | c) maximize | d) optimism |
| 8. a) avoiding | b) suspending | c) detracting | d) projects |

Reg. No. :

Name :

V Semester B.C.A. Degree (CCSS – Reg./Supple./Imp.)
Examination, November 2015
BCA – CORE COURSE
5B13 BCA : Software Engineering

Time : 3 Hours

Max. Weightage : 21

SECTION – A

Answer **all** questions. Weightage for a bunch of **four** questions is **1**.

1. In the _____ model, software is incrementally constructed and delivered.
2. _____ is a measure of software.
3. Requirements analysis is usually done by a _____
4. A technique used to analyze and represent complex processing logic is _____ (W = 1)
5. The outcome of the defenced design stage is known as _____ document.
6. A graphical technique used to represent a system in terms of I/O data and processing is called _____
7. _____ is used to determine whether the system fully conforms to its requirement specification.
8. _____ aims in identifying all defects existing in a software product. (W = 1)

SECTION – B

Answer **any 5** questions. **Weightage 1 each**.

9. Define software.
10. What is phase containment of error ?
11. What are deliverables ?

M 9737



12. What is structured analysis ?
13. What is cyclomatic complexity ?
14. What is abstraction ?
15. What is beta testing ?
16. What is debugging ?

(5×1=5)

SECTION – C

Answer **any 5** questions. **Weightage 2 each.**

17. Discuss the advantages and disadvantages of the waterfall model.
18. Explain the contents of an SRS.
19. Explain the characteristics of a good design.
20. Describe structured design.
21. Describe data flow testing.
22. Explain system testing.
23. What is functional testing ?
24. Explain an object oriented design strategy.

(5×2=10)

SECTION – D

Answer **any one** question. **Weightage 4 .**

25. Explain the activities done in the requirement analysis phase.
26. Explain the different levels of testing.

(1×4=4)



M 9739

Reg. No. :

Name :

V Semester B.C.A. Degree (CCSS-Reg./Supple./Imp.)
Examination, November 2015
B.C.A. : Core Course
5B16 BCA : VISUAL PROGRAMMING

Time : 3 Hours

Max. Weightage : 21

SECTION – A

Answer **all** questions. Weightage for a bunch of **four** question is **1**.

1. A _____ dialog box enables the user to do other work and then return to it.
2. The _____ event occurs when a dialog box is to be destroyed.
3. HBmsh handle belongs to _____ class.
4. CCombo Box class belongs to _____ header file. (W= 1)
5. The rows can be added and deleted in a database using _____.
6. _____ is used to move to the last row in a recordset.
7. _____ function is called to exchange and validate dialog data.
8. On/nit dialog is called in response to _____ message. (W= 1)

SECTION – B

Answer **any 5** questions. Weightage **1 each**.

9. Give drawbacks of unicode.
10. What is a window ?
11. What are .rc files ?

P.T.O.

M 9739



12. Define modal dialog boxes.
13. Give the function of MoveFirst().
14. What does WM-PAINT do ?
15. What are device context classes ?
16. Give the use of OnOk() function.

(5×1=5)

SECTION – C

Answer **any 5** questions. Weightage **2 each**.

17. Explain MessageBox() function.
18. Describe about C dialog class.
19. What are message handlers ?
20. Describe functions of On/Init Dialog() and DODDataExchange().
21. Describe about CWinApp class.
22. Explain resources.
23. Write a program to implement a modeless dialog box.
24. Describe advantages of MFC.

(5×2=10)

SECTION – D

Answer **any one** question. Weightage **4**.

25. Explain about ODBC drivers and levels of conformance.
26. Explain MFC class hierarchy.

(1×4=4)



M 9779

Reg. No. :

Name :

V Semester B.Sc./B.C.A. Degree (CCSS – Reg./Supple./Improv.)
Examination, November 2015
CORE COURSE IN COMPUTER SCIENCE/ APPLICATION
5B09 CSC/5B15 BCA : Web Technology

Time : 3 Hours

Max. Weightage : 21

SECTION – A

Answer **all** questions. Weightage for a bunch of 4 questions is 1.

1. The tag used to create a line break with in a block of text is _____
2. element must carry _____ attribute indicating the source of the image.
3. _____ object contains lot of information about the browser and operating system in which it is running.
4. The use of the floor(x) method of Math object is _____ (W.=1)
5. The PHP string function to find the position of first occurrence of a string is _____
6. _____ is the comparison operator in PHP that evaluates to TRUE if the two operands have the same value and are the same type.
7. CGI stands for _____
8. 'Face' is the attribute of _____ tag. (W = 1)

SECTION – B

Answer **any five** questions. Weightage 1 for **each**.

9. Write the syntax of for each loop in PHP.
10. Write PHP string function to find the first occurrence of a string.

P.T.O.



11. Write the use of <sup> and <sub> element.
12. What is the use of colspan attribute of the table tag ?
13. What is the purpose of the 'alt' attribute of the element ?
14. Explain the function of action attribute of <form> element.
15. Explain the usage of switch condition statement in Javascript.
16. How can you create a check box control to an HTML form ? (5×1= 5)

SECTION – C

Answer **any five** questions. Weightage **2** for **each**.

17. Explain the definition list with example.
18. Write the three types of text input used on forms.
19. Explain Numeric array and associative array in php.
20. Explain Php functions with example.
21. Write the alert box, prompt box, confirm box in Javascript with suitable example.
22. Explain the Javascript string object.
23. Explain client – server model.
24. How form datas are encoded and decoded in CGI ? (5×2= 10)

SECTION – D

Answer **any one** question. Weightage **4** for **each**.

Maximum weighted grade point : $4 \text{ (Weight)} * 1 \text{ (question)} * 4 \text{ (Maximum GP)} = 16$.

25. Explain HTML anchors and links in detail with all of its attributes.
 26. Describe the conditional and looping statements in Javascript. (1×4 = 4)
-

K16U 1916

Reg. No. :

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V Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.A.R.T.M./B.B.M./
B.T.T.M./B.C.A./B.S.W./ B.A. Afsal UI Ulama Degree
(CBCSS – 2014 Admn. – Regular) Examination, November 2016
OPEN COURSE

5D01 BBA/BBA (TTM)/BBA(RTM) 1 : Basic Accounting

Time : 2 Hours

Total Marks : 40

PART – A

Answer **all 5** questions. The questions carry **1** mark **each** :

1. What is ledger ?
2. What is the purpose of contra entry ?
3. Give two examples of errors of principle.
4. State the meaning of a trial balance.
5. What do you mean by voucher ?

(5×1=5)

PART – B

Answer **any 5** questions. **Each** question carries **5** marks :

6. Describe the purpose for the preparation of trial balance.
7. Rectify the following errors :
 - i) Credit sales to Mohan Rs. 7,000 were not recorded
 - ii) Credit purchase from Rohan Rs. 9,000 were not recorded
 - iii) Goods returned to Rakesh Rs. 4,000 were not recorded
 - iv) Goods returned from Mahesh Rs. 1,000 were not recorded.
8. What is cash book ? Explain the types of cash book.
9. Prepare a Purchase Return Book from the following transactions for January 2016 :

05 Returned goods to M/s Kartik Traders	Rs. 1,200
10 Goods returned to Sahil Pvt. Ltd.	Rs. 2,500
17 Goods returned to M/s Kohinoor Traders for list price Rs. 2,000 less 10% trade discount	
28 Return outward to M/s Handa Traders	Rs. 550

P.T.O.



10. State the difference between financial accounting and management accounting.
11. What is a journal ? Give a specimen of journal showing at least 5 entries.
12. Journalise the following transactions :

Nov. 01	Business started with cash	1,50,000
Nov. 03	Purchased goods from Harish	30,000
Nov. 08	Purchased furniture for cash	5,000
Nov. 09	Sold goods for cash	12,000
Nov. 10	Cash paid to Harish on account	15,000
Nov. 13	Paid sundry expenses	200
Nov. 20	Drew cash for personal use	1,000
Nov. 27	Rent paid	1,500
Nov. 29	Received cash from Nitesh	6,800
	Discount allowed	200
Nov. 30	Salary paid	3,000

(5×5=25)

PART – C

Answer **any one** question. The question carries **10** marks :

13. Explain the double entry mechanism with an illustrative example.
14. Prepare final accounts of Ashok Traders for the year ended 31-12-2015 from the following ledger balance :

Audit fee	10,000	Purchases	80,000
Live stocks	5,000	Sales return	2,000
Legal charges	12,000	Capital	72,000
Loose tools	6,000	Purchase return	1,000
Trademark	9,000	Drawings	8,000
Stock	20,000	Wages	20,000
Sales	1,64,000	General expenses	4,000
Carriage inward	1,000	Sundry debtors	60,000
Sundry creditors	10,000	Cash in hand	2,000
Advertising	4,000	Carriage outwards	4,000
Closing stock	40,000		

(1×10=10)



17. Calculate gross profit and Net profit on the basis of the following balances extracted from the books of M/S Raju & Sons for the year ended March 31, 2015.

	Rs.		Rs.
Opening stock	50,000	Net Sales	11,00,000
Net purchases	6,00,000	Direct expenses	60,000
Administration expenses	45,000	Loss due to Fire	20,000
Selling and distribution expenses	65,000	Closing stock	70,000

18. Rectify the following Journal Entries assuming that the narration is correct :

	Rs.	Rs.
1) Cash A/c	Dr. 1,500	
To Vikas		1,500
(Interest received from Vikas)		
2) Mohan	Dr. 5,000	
To Salary A/c		5,000
(Salary paid to Mohan)		
3) Furniture A/c	Dr. 12,000	
To Cash		12,000
(Sofa-set purchased for the Proprietors)		
4) Purchase return A/c	Dr. 2,000	
To X		2,000
(Goods returned to X)		
5) Insurance premium A/c	Dr. 12,000	
To Cash		12,000
(Insurance premium paid for next year)		
6) Purchases A/c	Dr. 8,000	
To Cash		8,000
(Furniture purchased for cash)		(3×6 = 18)

PART – D

Answer **any two** questions. Answers should **not** exceed **four** pages **each**. **Each** question carries **eight** marks **each**.

19. Discuss role and limitations of Accounting.



20. The following is the Trial Balance of a trader as on 31st December, 2015.

	Dr. (Rs.)	Cr. (Rs.)
Sales		1,20,000
Purchases	85,000	
Import duty	5,000	
Factory expenses	3,000	
Office expenses	6,000	
Sundry debtors	30,000	
Commission		1,500
Bad debts	2,500	
Sundry creditors		28,500
10% Investments	20,000	
Interest on Investments		1,500
Opening stock	15,000	
General expenses	3,000	
Cash in hand	2,000	
Machinery	40,000	
Capital		60,000
	2,11,500	2,11,500

Adjustments :

- 1) Closing stock is valued at Rs. 21,500
- 2) Provide 5% of debtors for bad debts.
- 3) Interest on investments for 3 months is outstanding.
- 4) Commission received in advance amounts to Rs. 300.

Prepare Trading and Profit and Loss Account and also a Balance Sheet as on 31st Dec. 2015.

21. a) What is compound Journal Entries ?

b) Enter the following transactions in the Journal of Hari.

2015 April 1 Purchased goods from Vinod of the list price of Rs. 40,000 at 10% trade discount.

April 2 Returned to Vinod of the list price of Rs. 1,000

April 6 Paid cash to Vinod Rs. 34,000 in full settlement of his account.

c) What do you understand by trade discount ?

(2×8 = 16)



K16U 1648

Reg. No. :

Name :

**V Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.A.R.T.M./B.B.M./
B.C.A./B.S.W./B.A. Afsal UI Ulama Degree (C.C.S.S. –Supple./Imp.)
Examination, November 2016
Open Course
5D01 BBA/BBA(T)/BBA(RTM)/COM : BASIC ACCOUNTING
(2012-13 Admissions)**

Time : 2 Hours

Max. Weightage : 20

PART – A

Two bunches of questions carries equal weightage of one. Answer all.

I. Fill in the blanks :

- 1) GAAP stands for _____
- 2) A collection of account is called _____
- 3) _____ book is both Journal and Ledger.
- 4) Trial balance helps in preparing _____ (W = 1)

II. Match the following :

- | A | B | |
|---------------------------------|--------------------------|---------|
| 5) Drawings | a) Dual aspect | |
| 6) Every debit has equal credit | b) Prompt payment | |
| 7) Trade discount | c) Deducted from capital | |
| 8) Fixed Assets | d) Bulk purchase | |
| | e) Long term use | |
| | f) Added to capital. | (W = 1) |

P.T.O.



PART – B

Answer **any six**. **Each** carries a weightage of **one**.

9. What is double entry booking ?
10. What is going concern concept ?
11. What is a journal ?
12. What is cash discount ?
13. State two contra transactions.
14. What is purchases day book ?
15. What is the object of preparing Trial Balance ?
16. What is Gross profit ?
17. How closing stock is valued ?
18. What is a Real Account ?

(6×1=6)

PART – C

Answer **any four**. **Each** carries a weightage of **two**.

19. Briefly describe the objectives of accounting.
20. State the rules for debit and credit.
21. Who is a debtor and creditor ?
22. Explain any two accounting concepts.
23. Give any five difference between Trial Balances and Balance Sheet.
24. Journalise the following transactions 2013 :

Jan. 1	Started Business	Rs. 50,000
" 2	Purchased furniture	Rs. 10,000
" 5	Purchased goods	Rs. 8,000
" 7	Sold goods for cash	Rs. 9,000
" 7	Sold goods to 'P'	Rs. 5,000
" 7	Paid Salary	Rs. 3,000



25. Prepare a Trial Balance from the follow the balances :

	Rs.	
1) Capital a/c	50,000	
2) Cash a/c	55,000	
3) Purchase a/c	20,000	
4) Sales a/c	30,000	
5) Purchases return a/c	300	
Sales return a/c	200	
Discount allowed a/c	100	
Discount received a/c	200	
Rent (Dr.)	3,000	
Drawings a/c	2,000	
Commission (Dr.)	200	(4x2=8)

26. Prepare 'S' a/c (creditor) with imaginary figures and balance the same (Minimum 4 transactions).

PART – D

Answer **any one**. Question carries a weightage of **four** :

27. Define Accounting. Explain its features.

28. From the following prepare a cash book with cash and Bank columns.

2012		Rs.
April 1	Started business	20,000
" 2	Opened bank A/c	8,000
" 4	Purchased goods	11,000
" 5	Purchased furniture and issued cheque	4,000
" 6	Sold goods for cash	7,000
" 12	Withdrawn from bank for office use	2,000
" 15	Purchased goods	3,000
" 22	Cheque received for cash sales	3,000
" 23	Cheque paid into bank for collection	3,000
" 28	Personal drawings from bank	500
" 31	Interest on deposit credited by the bank	400



29. From the following Trial Balance prepare a Trading and Profit and Loss for the year ended 31st Dec. 2012 and a Balance Sheet as an that date :

	Dr. Rs.	Cr. Rs.
Plant and Machinery	45,000	
Free hold premium	55,000	
Stock (1-1-2012)	36,500	
Salaries	7,600	
Purchases	65,000	
Sales		1,21,000
Furniture	6,000	
Carriage	1,675	
Carriage outwards	1,315	
Sales returns	2,400	
Purchases returns		1,365
Discount received		635
Discount allowed	430	
Wages	16,100	
Sundry Debtors	41,000	
Sundry creditors		28,800
Capital		1,10,000
Rent and rates	1,430	
Advertisement	2,400	
Cash in hand	450	
Cash at Bank	2,500	
Drawings	3,000	
Loan from 'X'		26,000
	2,87,800	2,87,800

Stock on 31st Dec. 2013 valued at Rs. 30,000.

(1×4=4)



K16U 1973

Reg. No. :

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B.C.A./B.S.W./B.A. Afsal UI Ulama Degree (CCSS – Supple./Imp.)
Examination, November 2016
(2013 and Earlier Admissions)
Open Course
5D01 MAT : BUSINESS MATHEMATICS

Time : 2 Hours

Max. Weightage : 20

PART – A

This Part consists of **two** bunches of questions carrying **equal** weightage of **one each**. **Each** bunch consists of **four** objective type questions. Answer **all** questions.

I. 1) Evaluate $\int \frac{1}{x} dx$.

2) $\frac{d}{dx} (x^n) =$

3) $\lim_{x \rightarrow 1} \frac{x^2 - 1}{x - 1} =$

4) If u and v are functions of x, $\frac{d}{dx} \left(\frac{u}{v} \right) =$

II. 5) Define "Critical Points".

6) What is "Depreciation" ?

7) Define "Points of inflexion".

8) Is the statement "Nominal rate of interest \leq effective rate of interest" true ?



PART - B

Answer **any six** questions. **Each** question carries wt. **1**.

9. If $y = \sqrt{x+y}$, find $\frac{dy}{dx}$.
10. Evaluate $\lim_{h \rightarrow 0} \frac{\sqrt{x+h} - \sqrt{x}}{h}$.
11. Examine for continuity at $x = 2$ for the function
 $f(x) = 3x + 5, 1 \leq x < 2$
 $= 8, x = 2$
 $= 4x - 1, 2 < x \leq 3.$
12. Differentiate $\frac{\log x}{x^2}$ with respect to x .
13. Find the points of local minima of the function $x^3 - 3x^2 + 4$.
14. Evaluate $\int_0^{\frac{1}{2}} \frac{1}{\sqrt{x^2-1}} dx$.
15. If the supply function is $p = \sqrt{9+x}$ and the quantity sold is 7, find the producer's surplus.
16. The demand function of a product is given by $p - 10e^{-x} = 0$. Find the consumer's surplus when the market price is $p = 1$.
17. Evaluate $\int_1^e x \log x dx$.
18. What is the compound interest for Rs. 1,000 invested for 5 years at an interest rate of 10% per year ?



PART – C

Answer **any 4** questions. **Each** carries wt. 2.

19. A man wishes to borrow Rs. D. He goes to the money lender and is told that the interest rate is $r\%$ per annum payable in advance and that Rs. D are to be paid back at the end of one year. Show that the effective rate of interest is $\frac{100r}{100-r}\%$.
20. A machine costing Rs. 80,000 would reduce to 20,000 in 8 years. Find the rate of yearly depreciation, given that depreciation is calculated using diminishing balances method.
21. A sum of money is put at compound interest for two years at 20% per annum. It would fetch Rs. 482 more if the interest were payable half yearly than if it were payable yearly. Find the sum.
22. Find $\frac{dy}{dx}$ if $x^y y^x = k$ if k is a constant.
23. Evaluate $\int \frac{dx}{x(x^4 + 1)}$.
24. Determine consumer's surplus and producer's surplus under pure competition for the demand function $p = 36 - x^2$ and supply function $p = 6 + \frac{x^2}{4}$, where p is the price and x is the quantity.
25. A tour operator charges Rs. 136 per passenger for 100 passengers upto a discount of Rs. 4 for each 10 passengers in excess of 100. Determine the number of passengers that will maximize the amount of money the tour operator receives.
26. For a certain establishment the total cost function C and the total revenue function R are given by $C = x^3 - 12x^2 + 48x + 11$ and $R = 83x - 4x^2 - 21$, where x is the output. Obtain the output for which profit is maximum and the maximum profit.



PART - D

Answer **any one**. Wt.= 4.

27. Using integration by parts evaluate $\int (\cos^{-1} x)^2 dx$.
28. The sums of Rs. 2,000, Rs. 3,000 and Rs. 4,000 are due at the ends of 2, 4 and 8 years respectively. It is proposed to replace this series of payments by a single sum of Rs. 9,000 payable at the end of n years. If the rate of interest is 10% per annum effective, find the value of n .
29. A company suffers a loss of Rs. 1,000 if its product does not sell at all. Marginal revenue and marginal cost functions for the product are given by $MR = 50 - 4x$, $MC = -10 + x$. Determine the total profit function, break even points and profit maximising level of output.



K16U 1860

Reg. No. :

Name :

V Semester B.C.A. Degree (CBCSS – 2014 Admn. – Regular)
Examination, November 2016
(Core Course)

5B16BCA : C# AND .NET PROGRAMMING

Time : 3 Hours

Max. Marks : 40

SECTION – A

One word answer :

(8×0.5=4 Marks)

1. C# is the only language specially designed for the .NET platform. True or False ?
2. Every class must include a Main method in its definition. True or False ?
3. A C# program is a collection of classes. True or False ?
4. CLS means _____
5. What is 'ref' modifier ?
6. The constant value assigned to variable in a program is known as _____
7. How do invoke a method in C# ?
8. The _____ method is used to compare two strings.

SECTION – B

Answer **any seven** of the following :

(7×2=14 Marks)

9. Explain the new features that are unique to C# language.
10. What is CLR ?
11. Explain method overloading.
12. What is the typical use of ToString() method ?
13. Explain what each of the following code segments compute :
 - c) $x = 4;$
 $y = x + x$
 - d) $x = "4";$
 $y = x + x;$

P.T.O.



14. What are command line arguments ? How they are useful ?
15. What is Unboxing ? How do we achieve it ?
16. Explain Web Services.
17. What are compile time errors ?
18. Explain Inheritance.

SECTION – C

Answer **any four** of the following :

(4×3=12 Marks)

19. Describe the structure of a C# program.
20. Describe the most important highlights of C# language.
21. Find errors if any, in the following statements.
String s1 = ("abc + xyz");
String s2 = s1 + "abc";
String s3 = "@\ABC\nCsharp";
22. How does C# differ from Java ?
23. Explain private and shared assemblies.
24. Explain any two differences between Windows based and Web based Applications.

SECTION – D

Answer **any two** of the following :

(2×5=10 Marks)

25. Explain the characteristics of C# language.
 26. Describe in detail the steps involved in implementing an application program in C# ?
 27. Explain Multithreading.
 28. Explain ADO.NET.
-



K16U 1957

Reg. No. :

Name :

V Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.A.R.T.M./B.B.M./
B.T.T.M./B.C.A./B.S.W./B.A. Afsal-UI-Ulama Degree
(CBCSS -2014 Admn.-Regular) Examination, November 2016

Open Course

5D01ENG : ENGLISH FOR COMPETITIVE EXAMINATIONS

Time : 2 Hours

Max. Marks : 20

I. Answer **any one** of the following in **not** more than **150** words. (1×5=5)

- 1) Explain the different forms of the present tense with examples.
- 2) Write an essay on the chief uses of articles and illustrate with examples.

II. Answer **any one** of the following questions. (1×3=3)

- 3) Complete the passage given below choosing the appropriate words from those given in the bracket: (drudge, converse, congenial, conception, companion, cookery)

But according to a higher _____ of woman's sphere, woman ought to be something more than a household _____. She ought to be able not merely to nurse her husband in sickness, but also to be his _____ in health. For this part of her wifely duty, education is necessary for there cannot well be _____ companionship between an educated man and an uneducated wife, who can _____ with her husband on no higher subjects than _____ and servant's wages.

- 4) Correct the order of words in the following sentences and rewrite them meaningfully.
 - a) I spent the three last days of my holiday in a chair with a swollen leg.
 - b) All the courtiers told the queen how beautiful she was all day long.
 - c) Each one of them are guilty.

P.T.O.



III. Answer the following questions according to the direction provided. (12×1=12)

- 5) Don't be late for supper, _____ (Add the appropriate question tag).
 - 6) He is _____ honest servant of _____ European living nearby.
(Fill in the blanks with the suitable articles)
 - 7) Leela goes _____ school _____ the morning. (Fill in the blanks using suitable prepositions).
 - 8) By the time we reached the station, the train _____ (Fill in the blank using the correct form of the verb 'leave').
 - 9) The fire was _____ on time. (Fill in the blanks using the correct phrasal verb form of 'put')
 - 10) Give the meaning of the following idioms :
 - a) hard to swallow
 - b) by the sweat of one's brow
 - 11) Neither of the two sisters _____ beautiful. (Choose the correct form of 'be' and fill in the blank)
 - 12) Give a single word for the following :
 - a) love for one's country
 - b) the custom of having more than one wife at the same time
 - 13) Give the meaning of the following phrasal verbs :
 - a) move on
 - b) put up with
 - 14) Choose the correct synonym of the italicized word from the bracket :
 - a) The dress is available at exclusive stores (popular, select, all)
 - 15) It is better to be _____ rather than being *extravagant*. (Fill in the blank with the antonym of the italicized word)
 - 16) The house was _____ one night. (Fill in the blanks using correct phrasal verb form of 'burn')
-



K16U 1807

Reg. No. :

Name :

V Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.A.R.T.M./B.B.M./
B.T.T.M./B.C.A./B.S.W./B.A. Afsai UI Ulama Degree
(CBCSS – 2014 Admn.-Regular) Examination, November 2016
Open Course
5D04 MAT : LINEAR PROGRAMMING

Time : 2 Hours

Max. Marks : 20

SECTION – A

Answer **all** the questions. **Each** question carries **one** mark.

1. What do you mean by slack variables in L.P.P. ?
2. Give a necessary and sufficient condition for the existence of a feasible solution to the general transportation problem.
3. Define the term loop associated with a transportation table.
4. When do you say that a transportation problem is balanced ? (1×4=4)

SECTION – B

Answer **any 6** questions. **Each** question carries **two** marks.

5. What is the canonical form of L.P.P. ? What are its characteristics ?
6. Reduce the following L.P.P. to its standard form :
Determine $x_1 \geq 0, x_2 \geq 0, x_3 \geq 0$ so as to maximize $z = 2x_1 + x_2 + 4x_3$ subject to the constraints : $-2x_1 + 4x_2 \leq 4, x_1 + 2x_2 + x_3 \geq 5, 2x_1 + 3x_3 \leq 2$.
7. Give the mathematical formulation of the following Diet problem :
Given the nutrient contents of a number of different foodstuffs and the daily minimum requirement of each nutrient for a diet, determine the balanced diet which satisfied the minimum daily requirements and at the same time has the minimum cost.
8. Obtain the dual of the following L.P.P. :
Maximize $f(x) = 2x_1 + 5x_2 + 6x_3$ subject to the constraints :
 $5x_1 + 6x_2 - x_3 \leq 3, -2x_1 + x_2 + 4x_3 \leq 4, x_1 - 5x_2 + 3x_3 \leq 1, -3x_1 - 3x_2 + 7x_3 \leq 6,$
 $x_1, x_2, x_3 \geq 0.$

P.T.O.



9. State the result connecting linear dependence and loops in a transportation problem.
10. What is meant by degeneracy in transportation problem ? How do you resolve degeneracy at the initial solution ?
11. Obtain an initial basic feasible solution to the following transportation problem using the north-west corner rule.

	D	E	F	G	Available
A	11	13	17	14	250
B	16	18	14	10	300
C	21	24	13	10	400
Requirement	200	225	275	250	

12. Obtain an initial basic feasible solution to the following transportation problem using the matrix minima method

	D ₁	D ₂	D ₃	D ₄	Capacity
O ₁	1	2	3	4	6
O ₂	4	3	2	0	8
O ₃	0	2	2	1	10
Demand	4	6	8	6	

13. Explain the assignment problem and its mathematical formulation.

(6×2=12)

SECTION – C

Answer any 1 question. Each question carries four marks.

14. Use simplex method to solve the L.P.P. :

Maximize $z = 3x_1 + 2x_2$ subject to the constraints :

$$x_1 + x_2 \leq 6, 2x_1 + x_2 \leq 6, x_1 \geq 0, x_2 \geq 0.$$

15. Solve the following transportation problem :

From	To			Available
	A	B	C	
I	50	30	220	1
II	90	45	170	3
III	250	200	50	4
Requirement	4	2	2	

(1×4=4)



K16U 1857

Reg. No. :

Name :

V Semester B.C.A. Degree (CBCSS-2014 Admn. -Regular)
Examination, November 2016
Core Course
5B13 BCA : SOFTWARE ENGINEERING

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One** word answer. (8×0.5=4)
- a) _____ is the act of evaluating a measure.
 - b) SRS stands for
 - c) Coupling is measured by _____ between modules.
 - d) A node with indegree $\neq 0$ and outdegree = 0 is called
 - e) Site for Beta testing is
 - f) DD path graph is called as
 - g) _____ are semantic connection between classes in an object oriented system.
 - h) Process of generating analysis and design documents is called

SECTION – B

Write short notes on **any seven** of the following questions. (7×2=14)

- 2. Explain the different types of manuals in documentation.
- 3. What are the advantages of developing the prototype of the system ?
- 4. What is the importance of design ?
- 5. What is meant by module coupling ?
- 6. Explain the relationship between coupling and cohesion.
- 7. Explain functional modeling.

P.T.O.



8. Define software reliability.
9. What are the different layers in Software Engineering ?
10. What is testing ? Why should we test ?
11. Explain error, mistake, bug, fault and failure.

SECTION – C

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

(4×3=12)

12. With the help of necessary diagrams, explain the important characteristics of software.
13. What are the characteristics to be considered for the selection of life cycle model ?
14. Differentiate between functional and non functional requirements.
15. What are the characteristics of a good SRS ?
16. Explain the difference between function oriented design and object oriented design.
17. What are the characteristics of a software test ?

SECTION – D

Write an essay on **any two** of the following questions.

(2×5=10)

18. Define SDLC. Explain various phases of water fall model.
19. Explain the various steps in requirement analysis with all diagrams.
20. What is integration testing ? Explain in detail.
21. Discuss the various architectural styles in software design.



K16U 1858

Reg. No. :

Name :

**V Semester B.C.A. Degree (CBCSS – 2014 Admn.-Regular) Examination,
November 2016
Core Course
5B14BCA – DATA COMMUNICATION AND NETWORKS**

Time : 3 Hours

Max. Marks : 40

SECTION – A

I. **One word answer :** **(8×0.5=4)**

- 1) a) _____ OSI layer defines the standards for data formats and encryption.
- b) The set of rules a computer must follow on a network is called _____
- c) The physical components, organization and configuration of a network is known as its _____
- d) The minimum number of wires needed to send data over a serial communication layer is _____
- e) A technique called _____ is used to improve the efficiency of bidirectional protocols.
- f) _____ satellites are positioned between two van Allen belts.
- g) _____ transport electromagnetic waves without using a physical conductor.
- h) Error detection is usually done in the _____ layer of OSI model.

SECTION – B

II. Answer **any seven** questions : **(7×2=14)**

- 2) What is video compression ?
- 3) What is piggybacking ?
- 4) What are the three broad groups of wireless transmission ?
- 5) What are the two types of switches used in circuit switching ?
- 6) What are the features of LEO satellites ?

P.T.O.



- 7) What do you mean by remote logging ?
- 8) What are the features of guided media ?
- 9) Explain Bluetooth technology.
- 10) What are transposition ciphers ?
- 11) What are the criteria necessary for an effective and efficient network ?

SECTION – C

III. Answer **any four** questions :

(4x3=12)

- 12) Explain Cryptography.
- 13) Describe fibre optic cable.
- 14) Compare various switching techniques.
- 15) Explain about remote procedure call technique.
- 16) Briefly discuss about OSI model.
- 17) Explain about bit map protocols.

SECTION – D

IV. Answer **any two** questions :

(2x5=10)

- 18) What are the three multiplexing techniques used in networks ?
 - 19) With a neat diagram explain OSI reference model.
 - 20) Explain various congestion control techniques.
 - 21) Discuss in detail about any two guided media.
-