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Exam Roll No. 08290301718

END TERM EXAMINATION

FIRST SEMESTER [BBA] NOVEMBER- DECEMBER 2018

Paper Code: BBA-101

BBA(B&I)-101

Subject: Management Process &
Organizational Behaviour

Maximum Marks :75

Time : 3 Hours

Note: Attempt any five questions. All question carry equal marks.

- Q1 Explain the need and importance of motivation in an organization. How theories proposed by Maslow and Herzberg have contributed to understand the problems associated with motivation and consequential impact on organizational performance?
- Q2 Explain why predetermined standards are necessary for effective managerial control. Does the fact that management has set standards for crucial aspects of the organization guarantee that control will be effective? Why or why not?
- Q3 What is the relationship between the organization's broad purpose and the objectives that are part of its various plans? Why should an objective be specific and measurable?
- Q4 Summarize the advantages and disadvantages of decentralization. Describe a situation where decentralization is highly effective.
- Q5 Briefly describe different skills required for a manager. State the concept of management and elucidate the best management practices across the world.
- Q6 Why has teamwork become a more recognized concept in the recent years? Whether the mutual acceptance phase of a group's development listhe point when the group exercises control most effectively?
- Q7 Define attitude. Discuss the process of its formation and its relationship with individual behaviour.
- Q8 Write a short note on (any three):
- (a) Bounded Rationality
 - (b) Management by objectives (MBO)
 - (c) Span of Control
 - (d) Management vs. Administration
 - (e) Departmentaion.

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FIRST SEMESTER [BBA] NOVEMBER-DECEMBER 2018

Paper Code: BBA-103

Subject: Business Mathematics

Time: 3 Hours

Maximum Marks: 75

Note: Attempt any six questions.

Q1 (a) Use mathematical induction to prove that (6)

$$1^3 + 2^3 + 3^3 + 4^3 + \dots + n^3 = \frac{n^2(n+1)^2}{4}$$

(b) Prove that for any positive integer number n, $n^3 + 2n$ is divisible by 3. (6.5)

Q2 (a) Let a, b, c be positive integers such that $\frac{b}{a}$ is an integer. If a, b, c are in geometric progression and the arithmetic mean of a, b, c is b+2, find the value of $\frac{a^2 + a - 14}{a + 1}$. (6)

(b) Real numbers a_1, a_2, \dots, a_{99} form an arithmetic progression. Suppose that $a_2 + a_5 + a_8 + \dots + a_{98} = 205$. Find the value of $\sum_{k=1}^{99} a_k$. (6.5)

Q3 (a) If $a + b + c = 0$ and $\begin{vmatrix} a-x & c & b \\ c & b-x & a \\ b & a & c-x \end{vmatrix} = 0$, then show that $x = 0$ or

$$x = \sqrt{\frac{3}{2}(a^2 + b^2 + c^2)}$$
 (6)

(b) Using Cramer's rule solve the following:- (6.5)
 $2x + y - 2z = 4, \quad x - 2y + z = -2, \quad 5x - 5y + z = -2.$

Q4 (a) Show that the matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 1 & 2 \\ 2 & 2 & 1 \end{bmatrix}$ satisfies the equation

$$A^2 - 4A - 5I = 0 \text{ and hence find } A^{-1}. \quad (6)$$

(b) Solve the following system of linear equations by matrix method (6.5)
 $y + 2z = 4, \quad 2z + x = 5, \quad x + 2y = 7.$

Q5 (a) If $y = (\sin^{-1} x)^2$, prove that $(1-x^2)y_2 - xy_1 - 2 = 0$. (6)

(b) If $y = \log(x^x + \operatorname{cosec}^2 x)$, find $\frac{dy}{dx}$. (6.5)

Q6 (a) An apartment complex has 250 apartments to rent. If they rent x-apartments then their monthly profit, in dollars, is given by $P(x) = -8x^2 + 3200x - 80,000$. How many apartments should they rent in order to maximize their profit. (6)

(b) Suppose you are running a factory, producing some sort of widget that requires steel as a raw material. Your costs are predominantly

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human labour, which is \$20 per hour for your workers and the steel itself, which runs for \$170 per ton. Suppose your revenue R is loosely modelled by the following equation $R(h,s) = 200h^{2/3}s^{1/3}$, where h represents hours of labour and s represents tons of steel. If your budget is \$20000, what is maximum possible revenue? (6.5)

Q7 (a) Evaluate $\int_0^{\pi/4} \log(1 + \tan \theta) d\theta$. (6)

(b) Evaluate $\int x\sqrt{x+x^2} dx$. (6.5)

Q8 (a) For a certain item the demand curve is $p = D(q) = \frac{20}{q+1}$ and the supply curve is Evaluate $p = S(q) = q+2$. Find the consumer and producer surplus. (7)

(b) Compute the consumer's surplus for the milk demand function Evaluate $D(Q) = -.05Q + 7.75$ dollars per gallon, where Q is the quantity of milk in thousands of gallons. Assume an equilibrium quantity of 95 thousand and an equilibrium price of \$3 per gallon. (5.5)

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FIRST SEMESTER [BBA] NOVEMBER-DECEMBER 2018

Paper Code: BBA-105 Subject: Financial Accounting and Analysis
(Batch 2017 Onwards)

Time: 3 Hours Maximum Marks: 75

Note: Attempt any five questions.

- Q1 (a) Differentiate between Book-Keeping and Accounting. (5)
- (b) "Accounting is an aid to Management". Comment. (10)

- Q2 What is meant by the term, 'Generally Accepted Accounting Principles'? Explain the meaning and significance of **any two** of the following:- (15)
- (a) The Going Concern Principle (b) Convention of Consistency
- (c) Matching Principle (d) Substance Over Form

- Q3 (a) Explain the Imprest System of Petty Cash. (5)
- (b) Prepare a two-columnar Cash Book from the following transactions of Shri Naresh Gupta. (10)

2016	Particulars	Rs.
Jan. 01	Cash in hand	2,000
Jan. 06	Cash purchases	2,000
Jan. 10	Wages paid	40
Jan. 11	Cash sale	6,000
Jan. 12	Cash received from Suresh	1,980
	Discount allowed	20
Jan. 19	Cash paid to Munna	2,470
	Discount received	30
Jan. 27	Cash paid to Radhey	400
Jan. 28	Purchased goods for cash	2,070

- Q4 (a) Distinguish between a Trial Balance and a Balance Sheet. (5)
- (b) The following are the extracts from the Trial Balance of a firm. (10)

TRIAL BALANCE
As on 31st December, 2016

	Debit	Credit
Particulars	Rs.	Rs.
Sundry Debtors	30,000	
Bad Debts	5,000	

- Additional Information:**
- (i) After preparing the Trial Balance, it is learnt that a debtor Suresh has become insolvent and, therefore, the entire amount of Rs. 3,000 due from him was irrecoverable.
 - (ii) Create 10% provision for bad and doubtful debts.
- You are required to pass necessary adjusting entries and show the items as these will appear in the firm's Balance Sheet.

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- Q5 A firm purchased a plant for Rs. 10,000 on 1.1.2013. It was charging depreciation at 10% p.a. according to the fixed installment method. At the end of 2016, the firm decided to change the method of depreciation from the Fixed Installment Method to the Diminishing Balance Method w.e.f. 1.1.2014. The rate of depreciation was to be at 12% p.a. You are required to prepare the Plant Account for the all these years ending 31st December, 2016 and also show how the depreciation item would appear in the Profit and Loss Account of the year 2016. (15)
- Q6 (a) Explain the utility of Price-level Accounting. (5)
 (b) Write a brief note on each **any two** of the following:- (10)
 (i) Social Responsibility Accounting
 (ii) Human Resource Accounting
 (iii) Green Accounting
- Q7 A holds 100 shares of Rs. 10 each on which he has paid Re 1 per share as application money.
 B holds 200 shares of Rs. 10 on which he has paid Re 1 on application and Rs. 2 on allotment.
 C holds 300 shares of Rs. 10 on which he has paid Re. 1 on application, Rs. 2 on allotment and Rs. 3 for the first call.
 They all fail to pay their arrears and the second call of Rs. 2 per share and the Directors, therefore, forfeited the shares. The shares of C were then reissued at Rs. 7 per shares as fully paid-up.
 Give the necessary journal entries to record the above transactions. (15)
- Q8 (a) Briefly state the functions of Stock Exchange. (5)
 (b) On 1st January, 2015, Neha Ltd. issued 2,500 10% debentures of Rs. 100 each at Rs. 95. Holders of these debentures have an option to convert their holding into 14% preference shares of Rs. 100 each at a premium of Rs. 25 per share at any time within three years.
 On 31st December, 2015, holders of 500 debentures notified their intention to exercise the option.
 Show the journal entries in relation to the issue and conversion of debentures in the books of the company. (10)

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FIRST SEMESTER [BBA] NOVEMBER.-DECEMBER 2018

Paper Code: BBA (GEN)-107
BBA (B&I)-107

Subject: Business Economics

Time : 3 Hours

Maximum Marks :75

Note: Attempt any five questions. All questions carry equal marks.

- Q1 Define the term "Economic Profits". Also explain the significance of profits in a market economy.
- Q2 Distinguish between "Micro Economics" and "Macro Economics". Also explain their interdependence.
- Q3 (a) Arana buys 6 hours of computer game at a price of Rs. 15 per hour. If we know that her demand for computer game is unit elastic, how much hours of computer game would she buy if its price goes up to Rs. 18 per hour?
(b) Distinguish between increase in demand and increase in quantity demanded with the help of a diagram.
- Q4 (a) Draw a budget line. How will the budget line change if the price of good X falls by 10% and the price of good Y rises by 10%?
(b) Explain the determination of consumer equilibrium with the help of the law of Equi marginal utility.
- Q5 (a) Distinguish between returns to a factor and returns to scale.
(b) Show diagrammatically the relationship between average product and marginal product. Can there be a range of output in which marginal product falls but average product continues to rise? Give reasons.
- Q6 Draw the expansion path of a firm with the help of Iso quant analysis.
- Q7 Explain why?
(a) Demand curve facing a perfectly competitive firm is perfectly elastic.
(b) In the long run equilibrium a monopolistic competitive firm has excess capacity.
(c) An oligopoly firm has a kinked demand curve.
- Q8 Given the following output schedule of a firm, calculate its marginal cost at different levels of output.

Units of fixed input.	Units of variable input	Total output
2	0	0
	1	10
	2	25
	3	50
	4	65
	5	70

Further, the price of a fixed input is Rs. 200 per unit. And the price of a variable input is Rs. 100 per unit.

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FIRST SEMESTER [BBA] NOVEMBER-DECEMBER 2018

Paper Code: BBA-109

Subject: Computer Applications

BBA(B&I)-109 (Batch 2017 Onwards)

Time: 3 Hours

Maximum Marks: 75

Note: Attempt five questions in all including Q no.1 which is compulsory.
Select one question from each unit.

- Q1 Answer **any five** of the following:- (5x5=25)
- (a) Differentiate between hardware, software, human ware and firmware with a suitable example.
 - (b) Explain the booting process of a computer in detail.
 - (c) Explain terms such as directory, file, volume, label and drive name.
 - (d) Differentiate between LAN, MAN and WAN and compare in terms of speed, accuracy and error.
 - (e) Differentiate between Internet, Intranet and Extranet.
 - (f) Explain any three guided media used for transmission.

UNIT-I

- Q2
- (a) What is a computer? Why is it also known as a data processor? List some of the important characteristics of a computer. (6)
 - (b) What is meant by 'generation' in computer terminology? List out the various computer generations along with the key characteristics of the computers of each generation. (6.5)
- Q3
- (a) Draw a block diagram to illustrate the basic organization of a computer system and explain the functions of the various units. (6)
 - (b) How many types of storage are normally there in the storage unit of the computer system? Give examples of each type and justify the need for each storage unit. (6.5)

UNIT-II

- Q4
- (a) What is an operating system? Why is it necessary for a computer system? List and explain the various functions performed by an operating system in detail. (8.5)
 - (b) Differentiate between multiprogramming, Multiuser and multitasking with a suitable example. (4)
- Q5
- (a) What is a high level language? Explain the main characteristic features of high level languages and write names of any five high level languages. (6.5)
 - (b) Differentiate between assembler, compiler and interpreter. (6)

UNIT-III

- Q6
- (a) How are charts useful in Excel? List and compare any three chart type available in Excel using diagram. (4.5)
 - (b) Differentiate between COUNT, COUNTA, COUNTIF and COUNT BLANK functions in MS-Excel with their syntax and a suitable example. (8)

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- Q7 (a) What is filter in Excel? How is it used to filter text values, numbers and dates? (4.5)
- (b) How would you provide a dynamic range in "Data Source" of Pivot tables in MS-Excel? Is it possible to make a pivot table using multiple sources of data? Which event do you use to check whether the pivot table is modified or not? (8)

UNIT-IV

- Q8 What is the need of layering architecture? With the help of suitable diagram, describe the OSI Model with the functions of each layer in detail. (12.5)
- Q9 (a) What do you mean by network topology? List and explain any three topologies used in networking. Draw neat diagram. (6.5)
- (b) Write a short note on application of Information Technology in Business. (6)

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