Bachelor of Management Studies Examination: March / April 2016
Semester IV (Fresh) (New Course)

Day & Date	Semester	Subject Name	Time	Code
Thursday 31/03/2016	IV (Fresh)	Strategic Management	11.00 AM to 02.00 PM	4001

Note: **1. Q.1 and Q.8 are compulsory.**
2. Attempt Any 5 from Q.2 to Q.7.

Q1. Clarify the concepts: (Attempt Any 6 out of 8) **12**

a) Business Policies
b) Vision of company
c) Ethics
d) Technological Strategy
e) Modernization Strategy
f) Disinvestment Strategy
g) Core Competency
h) Micro Environment

Q2. Define Business Policies and explain its Importance. **10**

Q3. Explain the process of strategic management. **10**

Q4. What are the components of Internal Strategic Analysis? **10**

Q5. Explain the following Concepts.

a) Process of strategic choice **05**
b) 7 s framework **05**

Q6. Explain the following Concepts.

a) Distinctive competence **05**
b) Creation of organization structure **05**

Q7. Define resources allocation and explain its steps. **10**

Q.8 Case Studies 13

On January 31st 2009 "Subhiksha" admitted in media that it was facing major financial crises.

On February 11th 2009, following an attacks on its store and their houses, Subhiksha announced that it was closing down all its 1600 outlets till May 2009. Although a management of Subhiksha claimed that the financial problem was due to its inability to raise enough equity capital, analyst opinion that the retailer rapidly expanded during the last 3yrs. And its poor supply chain management practices had contributed to the financial woes. The case details the events lead to the financial problem at Subhiksha. It also describes the CDR (corporate debt restructuring) plan proposed by the banker of Subhiksha to come out of the financial mess. The case ends with a discussion with challenges that Subhiksha faces in the near future.

Questions:

1) How could you control the financial crises of Subhiksha, if you were the CEO of Subhiksha? **06**

2) What are the different types of strategy which could have save Subhiksha? **07**

OR

A transport company was engaged in handling cargo between selected inter city routes and had a fleet of trucks numbering ten. After recent election to the State Assembly, the chief minister of the state announced infrastructure development to be taken up as the top priority by the state government. Bids were invited for road construction on a large scale. Work started within six months. Accordingly the transport company decided to expand its operations adding on more trucks to its fleet. Mean while, industrial growth rate in the state had a setback, due to labour interest which seriously hampered production in several industries. The transport company found its operations unprofitable. **13**

What was the flow in the planning for expanded operations?

Is there any remedy to the situation?

Bachelor of Management Studies Examination: March / April 2016
Semester IV (Fresh) (New Course)

Day & Date	Semester	Subject Name	Time	Code
Saturday 02/04/2016	IV (Fresh)	Financial Management	11.00 AM to 02.00 PM	4002

Note: **1. Q1 & Q8 are compulsory.**
2. Solve any 5 from Q2 to Q7

Q1. Clarify the concept (Any 6) **12**

a) Retained earnings
b) Cost of Equity share capital
c) Payback Period
d) Gross Working Capital
e) Debentures
f) Components of working capital
g) W A C C

Q2. Explain financial goal and objective with profit maximization and wealth maximization. **10**

Q3. a) Company have capital structure **05**

1) 18% Debentures = 300000/-
2) 15% Preference Share = 200000 Rs.
3) Equity Share Capital = 500000/-

i) Cost of equity = 20%
ii) Tax Rate = 30%

Calculate Weighted Average cost of Capital.

Q3. b) CLAN LTD. Co. issue 8000, 10% Preference Share of Rs.100 each, Cost of Issue is Rs.3 per share. **05**

Calculate cost of preference share capital if share are issued

1) at par
2) at premium of 10%
3) at Discount of 5%

Q4. Explain ARR with its Advantages & Disadvantages. **10**

Q5. Explain factors determining of Working Capital. **10**

Q6. From the following Information of XYZ Ltd. prepare Working Capital statement for 2016 **10**

Cost

Raw Material	40% of Sales
Labour	20% of Sales
Overhead	15% of Sales

Sales Price Rs. 200 per unit

a) Company produces 72000 units during the year.
b) Raw material in stock for 2 ½ months.
c) Work in progress for 2 months.
d) Finished goods are to stay in warehouse for 1 month.
e) Credit allowed by creditors 4 month.
f) Credit allowed to debtors 2 months.
g) Time lag in payment of overhead 1 month.
h) Wages paid 1 month in advance.
i) Cash and Bank Balance Rs.150000/-

Q7. Pratiksha Ltd. is considering to purchase machinery. Cost of machinery Rs.300000/- Charge depreciation 10% per annum on fixed Installment method. **10**

Net cash flow after depreciation

Year	Rs
1	70000
2	40000
3	50000
4	85000
5	75000
6	50000

Tax Rate is = 30%

Calculate = Payback period.

Q8. Read the following case & answer the question 13

a) Ritesh Ltd. company has to select one of the two alternative machinery. The following particulars are given below:

	Machinery I	Machinery II
i) Cost of Machinery	150000/-	170000/-
ii) Scrap value at the end of useful life	5000	10000
iii) Profit after tax		
Year 1	40000	30000
Year 2	30000	50000
Year 3	50000	60000
Year 4	30000	20000
Year 5	25000	35000

As financial manager of company, you have to take decision which machine benefited to company according to Pay Back Period Method.

b) Sagar Company has a requirements o Rs.50 lakhs for its growth & expansion. You are requested to advise the company as which sources of finance they can avail. Also kindly explain the reasons for the same.

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Bachelor of Management Studies Examination: March / April 2016
Semester IV (Fresh) (New Course)

Day & Date	Semester	Subject Name	Time	Code
Tuesday 05/04/2016	IV (Fresh)	Consumer & Buyer Behavior	11.00 AM to 02.00 PM	4003

Note: **1. Question No.1 & 8 is compulsory.**
2. Attempt any five questions from Questions No. 2 to 7.

Q1. Explain the following terms (any six) **12**

a) Consumers
b) Reference groups
c) CRM
d) PRM
e) Customers Loyalty
f) Business Ethics
g) Consumer Behaviour
h) CSR

Q2. Explain factors influencing organizational buying. **10**

Q3. Illustrate consumer buying process with relevant example: **10**

Q4. Answer the following: **10**
a) Factors affecting on business ethics
b) Need of CSR

Q5. How to reclaim a lost customer with relevant example. **10**

Q6. Explain Public Relation Management (PRM) & how to promote or protect a company's image or individual products. **10**

Q7. Explain briefly buying motives which influence consumer buying. **10**

Q8. In your organization, it is seen that, there is a problem of Customer turnover. As a Customer Relationship Manager:

- What reasons you found out for decline in customer response **04**
- What measures you are going to take to reclaim your lost customers **04**
- What strategies you will adopt to tap new customers. **05**

Bachelor of Management Studies Examination: March / April 2016
Semester – III (Repeater) (New Course)

Day & Date	Semester	Subject Name	Time	Code
Wednesday 06/04/2016	III (Repeater)	Fundamentals of Production & Operations Management	03.00 PM to 06.00 PM	3004

Note: **1. Question No.1 & 8 are compulsory.**
2. Attempt any five questions from Q2 to Q7.
3. Maximum time allowed 03:00 Hours.

Q.1 Explain the following concepts (Any Six) 12

i) Capacity Planning
ii) Plant Location
iii) Process Layout
iv) Konban
v) Loading
vi) Progressing
vii) Predictive Maintenance
viii) Breakdown

Q.2 State and explain the various features of Operations Management. 10

Q.3 What are the objectives of a good plant layout? 10

Q.4 Explain Production Control. What is its importance? What are its advantages? 10

Q.5 What are the various activities included in Preventive Maintenance? 10

Q.6 a) Explain the inputs of the System Approach. 05
b) What is Kaizan? Explain with definition. 05

Q.7 Write Short Notes on: 10
a) Production Control Function
b) Ethics is Production and Operations Management.

Q.8 Ganpathy Rao Electricity Board is a state government undertaking involved in the generation, supply and distribution of electric power in an Indian state.

The chairman has requested Prof. Gapala-Krishan to study their problems in maintenance and other managerial areas, with a view to make suitable suggestions. For this purpose he has interviewed a large number of executives in the headquarters, generating stations, workshops and suppliers, beside compiling details from manuals, published documents, press reports, etc.

The company generates power from hydro-stations at ten localities in the state, with a total installed capacity of 2000 MW, whereas the thermal stations are spread over in five places with the same total installed capacity.

The terrain of the state in some areas is fairly hilly and some of the hydel plants have been operating in places where rail connections have become very difficult. Due to critical power shortage position, the annual maintenance works on machine and feeders, through programmed, could not be carried out. The company at times has faced such unbelievable but not uncommon problems like wild monkey getting electrocuted, resulting in dislocation of power transmission system. Many lines pass through dense forests and the pre monsoon tree cutting operation becomes very difficult.

At the site, a maintenance engineer is in charge of maintenance and reports to the chief engineers. Junior engineers specializing in electrical / mechanical / instrumentation as well as three to eight machines help him in carrying out, the maintenance work for each area. The fitters are more in number in the transmission and distribution system. A regional workshop is attached to each engineer and caters to the minor repairs. There is also one central workshop for the whole board, where major overheating and repairs are done. The maintenance engineers have been trained in the latest plant engineering concepts.

The company is in the process of expansion to meet the acute shortage of power in the state. For this purpose, the company has proposed to install four sets of 210 MW, using the available coal in the state.

Answer the following question:

i)	Give appropriate title.	**02**
ii)	What are the problems faced by the organization?	**05**
iii)	What factors they should add in their maintenance system to make ideal maintenance?	**03**
iv)	Company is in the process of expansion, which method would you suggest to avoid breakdown in feature and why?	**03**

Bachelor of Management Studies Examination: March / April 2016
Semester – IV (Fresh) (New Course)

Day & Date	Semester	Subject Name	Time	Code
Thursday 07/04/2016	IV (Fresh)	Quality Management	11.00 AM to 02.00 PM	4004

Note: **1. Question No.1 & Question No.8 is compulsory.**
2. Attempt any five questions from Q. 2 to Q. 7)

Q.1 Define any Six. 12
- a) J. M. Juran's view of Quality.
- b) Quality Design
- c) Kaizen
- d) TQM
- e) Six Sign
- f) Quality Control
- g) Quality Assurance
- h) Suggestions Schemes

Q.2 Explain the concept of Quality in detail. 10

Q.3 Explain the concept of suggestion schemes with its structure. 10

Q.4 Explain Malcolm Baldrige Quality Method. 10

Q.5 What are ethics related to Quality? Explain the ethical issues in term of Quality Management.

Q.6 Write short notes on :- 10
- a) Quality Control & Quality Assurance
- b) Benefits of Quality Circle

Q.7 Explain in brief :- 10
- a) Capability Measuring Model
- b) Kaizen : Concept & Functions

Q.8 Case Studies (Attempt any two): 13
- a) What do you mean by learning curve concept? Give the formula. 06

Solve the following case:-

A manufacturer of diesel locomotives needs 50000 hours to produce the first unit. Based on past experience with similar products, the rate of learning is 80.

i) Estimate the direct labour required for the 40^{th} diesel locomotive and the cumulative average no. of labour hours per unit for the first 40 units.

ii) Draw a learning curve for this situation:-
- Consider {(log 0.8 / log 2) = -0 322}
- Cumulative factor for 40 units at 80% learning rate = 0.42984. **07**

b) Company XYZ with a healthy infrastructure is working since 50 yrs in the field of manufacturing bottles. It employs about 50 persons in management and 200 labours. It works in a clean and healthy environment. The waste and broken bottles are dumped in the ground on the barren land behind the factory. The total turnover of the company is about 20 crores per year. The new competitor has entered the market with a better quality of the product. Company is facing a downfall in sales of 10%, year on year. The majority of the working class is unskilled. It does not use any kind of data analysis, for forecasting future. The management is day by day facing the problems to control the quality and increase the sales. The company needs a proper planning the strategies of its TQM.

j) Define the problem
k) How should company implement its PDCA Cycle?
l) What techniques can it apply for TQM? **06**

c) ABC private limited is a newspaper printing company. It ranks No.3 to employing 500 employees, the company is facing the problems of frequent resignations. In the last one year 50 expert reporters resigned and moved to the other companies in the same industry. The reasons mentioned in the leave diary was as: Not satisfied with salary, work pressure, low overtime pay, etc. The employees are day by day losing trust in management and frequent quarrels take place among the employees themselves. The company is thinking to design something creative so that its resources can be consumed sophistically.

a) Define the problem.
b) In case suggestion scheme is set up, what will be its process of settings?

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Bachelor of Management Studies Examination: March / April 2016
Semester IV (Fresh) (New Course)

Day & Date	Semester	Subject Name	Time	Code
Monday 11/04/2016	IV (Fresh)	Entrepreneurship Development & Event Management	11.00 AM to 02.00 PM	4015

Note: 1. Q.1 is compulsory.
2. Attempt any 3 from the remaining.
3. Section I and Section II to be answered on the separate answer sheet.

Section I

Q.1 Explain the following concepts. (Any 5) 10

a) DIC
b) SIDBI
c) Business plan
d) Sectoral project
e) Social Cost Benefit Analysis
f) Ontrapreneur

Q.2 Explain the factors contributing to Entrepreneurship Development? 10

Q.3 a) Explain the term 'Project'? 05
b) State the steps in project formulation 05

Q.4 a) List the various schemes of assistance given to women entrepreneurs? 05
b) List any 5 women Indian entrepreneurs of your choice and the qualities for which you idealize with them. 05

Q.5 Write Short notes on- (Any 2) 10

a) Project Classification
b) Network Analysis
c) Constraints in project formulation.

Section II

Note: **1. Q.1 is compulsory.**
2. Attempt any 3 from the remaining.
3. To be attempted on a separate answer sheet.

Q.1	**Explain the following concepts (Any 5)** **a)** Event Management **b)** Team work in Event **c)** Target Market **d)** Budgeting of Event **e)** Ethics **f)** Sources of Funds	05
Q.2	Explain diverse marketing needs addressed by Events.	10
Q.3	Explain steps of Event planning from search to Marketing Steps.	10
Q.4	Define the term Event and explain advantages offered by Event	10
Q.5	You are NGO helping women of weaker section of Society. What events would you design to support this class of women? Give minimum 5 events.	10

Bachelor of Management Studies Examination: April 2016
Semester – IV (Repeater) (Old Course)

Day & Date	Semester	Subject Name	Time	Code
Tuesday 12/04/2016	IV (Repeater)	Statistics – II	11.00 AM To 01.00 PM	4006

Notes: 1) Q. 1 is compulsory
2) Attempt any five questions from the remaining.

Q.1 Attempt any six from the following: **10**

a) Define positive and negative correlation?
b) What is Time Series?
c) Write addition theorem of probability.
d) Define complimentary and mutually exclusive events.
e) If $n_1 = 100$; $\overline{X_1} = 45$; $\overline{X_2} = 55$; $\bar{X} = 51$; Find n_2?
f) If r = 0.8; $\sum d^2 = 33$ find n?
g) Define weighted mean.
h) Find median from 8,7,10,6,15,11,8,12,10

Q.2 (A) Find the missing frequency if Arithmetic mean is given 55 minutes. **05**

Travelling time in minutes	0-20	20-40	40-60	60-80	80-100
No of employees	5	20	-	21	17

(B) Calculate D_4 and P_{77} from the data. **05**

Age in years	20-25	25-30	30-35	35-40	40-45	45-50	50-55
No of teachers	21	19	50	40	16	20	10

Q.3 (A) Find the regression equations and estimate X when Y = 15 and Y when X = 12. **05**

X	4	6	8	9	10
Y	10	11	13	17	20

(B) Find the coefficient of correlation (r) by using Karl Person's method. **05**

$\sum X = 96$ $\sum Y = 84$ $\sum x^2 = 1128$ $\sum y^2 = 1380$
$\sum xy = 312$ $n = 12$

Q.4 (A) If $\bar{x} = 170$ $\bar{y} = 68.2$ $\sigma x = 15$ $\sigma y = 9$ coefficient of correlation between X and Y = 0.6. Find equations of two regression lines. **05**

(B) Write short notes on Scatter's diagram to determine the coefficient of correlation. **05**

Q.5 (A) Write uses of time series and explain regarding different components of time series. **05**

(B) Apply five yearly moving average methods and determine trend values. **05**

Years	1991	1992	1993	1994	1995	1996	1997	1998
Sales (1000 Rs.)	98	105	103	100	107	106	103	112

Q.6 (A) If $r_{12} = 0.25$ $r_{13} = 0.65$ $r_{23} = 0.35$

Calculate $r_{12.3}$ and R_1 (23) **06**

(B) A Box contains 20 tickets numbered from 1 to 20. A ticket is drawn at random from box. Find probability that the number on the ticket drawn is

1. Divisible by 3
2. Divisible by 3 or 4 **04**

Q.7 (A) Suppose the waist measurement of 800 girls are normally distributed with mean 66 cm and S.D. 5 cm. **06**

Find the number of girls with waist

1. between 65 cm and 70 cm
2. Greater than 72 cm

(B) If is given that 3% bulbs are defectives. Using Poisson's distribution food probability that sample of 100 bulbs will contain. **04**

1. No Defective
2. Exactly one defectives

Q.8 (A) Calculate Quartile deviation and its coefficient. **06**

Class	0-15	15-30	30-45	45-60	60-75	75-90	90-105
Frequency	38	47	52	63	55	45	32

(B) Calculate median (M) and mode (Z) from the following data. **07**

Wages in Rs	10-15	15-20	20-25	25-30	30-35	35-40	40-45
No of workers	12	28	36	50	16	15	11

Bachelor of Management Studies Examination: April 2016
Semester – IV (Repeater) (Old Course)

Day & Date	Semester	Subject Name	Time	Code
Tuesday 12/04/2016	IV (Repeater)	Statistics – II	11.00 AM To 01.00 PM	4006

(1) Question no-1 is compulsory, attempt any five from the remaining.
(2) Simple calculator, statistical table can use & Graph paper will be provided on request

Q-1 Write the answer of following short questions [10]
(a) Explain producer's risk and consumer risk (2)
(b) Explain type I and type II error (2)
(c) Write control limit of np chart (2)
(d) Write application of χ^2 (Chi-square test) (2)
(e) What is the Hypothesis & types of Hypothesis (2)
(f) A random sample of 200 items are selected at random and 15 of them are find to be defective. Obtain 95 % confidence limit of proportion of defective in a population (2)

Q-2 (A) A certain company had four salesmen A, B, C, D. Each of them was sent for a month to three districts P, Q, R. The sales in thousand per month are shown below. Carry out two ways ANOVA (Test at 5 % level) (7)

Districts	Salesmen			
	A	B	C	D
P	10	17	14	18
Q	18	15	12	20
R	20	20	10	25

(B) Write a short note on single and double sampling plan. (3)

Q-3 (A) Two random samples are drawn from two normal population and their observation are given bellow (7)

Sample I	26	27	28	29	30	31	32	34	36
Sample II	29	32	33	35	36	38	39		

Test at 5 % level of significance whether two population have same variance?

(B) A random sample of size 16 items from a normal population have mean 53 and standard deviation 12.5. Obtain 95 % and 99 % confidence interval for population mean (3)

Q-4 (A) Following information is obtain in sample survey (6)

Condition of child	Condition of Home		
	Clean	Dirty	Total
Clean	70	50	120
Fairly clean	80	20	100
Dirty	35	45	80
Total	185	115	300

State whether two attribute are independent? Use χ^2 (chi-square test) Test at 5 % level

(B) The following table gives the number of defects in carpet manufactured. (4)

Carpet serial no.	1	2	3	4	5	6	7	8	9	10
No. of defects	3	4	5	6	3	3	5	3	6	2

Comment on the state of control using C chart

Q-5 (A) Sales executed by the salesmen in thousand rupees before and after training are given bellow. (7)

Sales befor training	23	19	18	24	21	32
Sales after training	24	21	20	26	18	35

Do these data indicate that the training is effective? Test at 5 % level of significance

(B) write a short note on simple random sampling (3)

Q-6 (A) Ten objects are chosen at random from a large population and their weight are found to be in grams (5)

63, 63, 64, 65, 66, 69, 70, 70, 71, 75.

In the light of above data discuss the suggestion that mean weight of the population is 65 grams (Test at 5 % level.

(B) The following information about two samples are given below. Test the significance difference between two samples (use 1 % level) (5)

sample	sample size	mean	standard deviation
A	150	58	8
B	250	62	12

Q:3 (A) In a sample of 600 men from certain city 450 mean are found smoker. In a sample of 900 from another city 500 are found to be smoker. Do the data indicate that two cities are significance different with respect to proportion of smoker among men? (Test at 1 % level) (6)

(B) What is statistical quality control? How the control charts are useful to control the quality of the manufactured product) (4)

Q:4 (A) (7)

Divisions	Sample size	mean salary	Standard deviation
A	12	1050	55
B	10	980	45

Is there any significance difference between average salary of foremen in two division? Test at 5 % level)

(B) Explain regarding critical region and acceptance region in testing of hypothesis (3)

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GOKHALE EDUCATION SOCIETY'S
S.M.R.K.- B.K.- A.K. MAHILA MAHAVIDYALAYA, NASHIK-5

S.Y.B.M.S.- Sem. IV (Unit test)

Subject : Strategic Management (4001)

Date : 28 /01/2016 Time : 9 to 10 am. Marks: 25

Q. 1 Answer the following: - (Any 1) (15)

A. Define Strategy and Strategic management. Explain the process of Strategic Management.

B. Explain business policy. State the important aspects while framing business policy

C. Define strategic intent. Explain Porter's competitive strategy.

Q. 2 Write short notes on :- (Any 2) (10)

1. Value chain.
2. Corporate level strategy.
3. Goals and Objectives.
4. Benchmarking.

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GOKHALE EDUCATION SOCIETY'S

SMRK BK AK MAHILA MAHAVIDYALAYA , Nashik- 5

S.Y.B.M.S. (Semi IV) Unit Test I, Jan. 2016 Max. Marks 25

Date -28/01/2016 Sub : Financial Management Time - 1 Hr.(11 to 12 noon)

Instructions : 1) All Questions are compulsory.

2) Right hand side figures indicate full marks.

Q.No. 1 **15**

a) Define the term working capital.

b) Explain factors of working capital management.

OR

a) Define Financial Planning **15**

b) Explain steps & factors of Financial Planning

Q.No. 2 Write Short Note on any one of the following **10**

1) Calculation of cost of working capital.

2) Operating (trade) cycle

3) Financial Management

GOKHALE EDUCATION SOCIETY'S
S.M.R.K.- B.K.- A.K. MAHILA MAHAVIDYALAYA, NASHIK-5

S.Y.B.M.S.- Sem. IV (Unit test)

Subject : Consumer and Buyer Behavior (4003)

Date : 29/01/2016 Time : 9 to 10 am. Marks: 25

Q. 1 Answer any one of the following: (15)

A. Write the difference between Consumer Buyer Behavior and Organizational Buyer Behavior.

B. Define Buyer Behavior. Explain factors affecting Consumer Buyer Behavior.

C. Define Organizational Buyer Behavior. Explain factors affecting Organizational Buyer Behavior.

Q. 2 Write short notes on any Two: (10)

1. Consumer Buying Process
2. Stimulus Response Model
3. Derived Demand
4. High and Low Involvement products

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GOKHALE EDUCATION SOCIETY'S
S.M.R.K.- B.K.- A.K. MAHILA MAHAVIDYALAYA, NASHIK-5

S.Y.B.M.S.- Sem. IV (Unit test)

Subject : Quality Management (4004)

Date : 29 /01/2016   Time : 11 to 12 noon.   Marks: 25

Q. 1 Explain the following terms :(Any 5) (10)

1. ISO.
2. Quality Control.
3. Suggestion schemes.
4. Rewards.
5. Quality Assurance.
6. Total Employee Involvement.
7. Learning Curve

Q.2 Answer the following: - (Any 1) (15)

A. Define Total Quality Management. State its importance.

B. Explain Quality circle. Write its benefits in the organizations.

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GOKHALE EDUCATION SOCIETY'S

SMRK BK AK MAHILA MAHAVIDYALAYA , Nashik- 5

S.Y.B.M.S. (Semi IV) Unit Test I Jan.2016 Max. Marks 25

Date : 30/01/2016 Time - 1 Hr. (9 to 10 am.)

Sub : Entrepreneurship Development & Event Management

Instructions : 1) All Questions are compulsory.

2) Right hand side figures indicate full marks.

Q.No. 1 15

a) Define the term Entrepreneur and Entrepreneurship.

b) Explain qualities required for successful Entrepreneurship.

OR

a) What are types of Entrepreneurship? 15

b) Explain role of women Entrepreneur with example of any successful women Entrepreneur in India.

Q.No. 2) Write short note on any one of the following. 10

1) Project Report meaning & project report preparation steps.

2) Project Report preparation by NGO on Street Children.

3) Team management in Event presentation

4) Need of Project Planning.

Bachelor of Management Studies Examination: October 2015
Semester IV (Repeater) (New Course)

Day & Date	Paper No.	Subject Name	Time	Code
Thursday 15/10/2015	IV (Repeater)	Financial Management	03. 00 PM to 06. 00 PM	4002

Instructions: Q1 and Q8 compulsory.
Q2 to Q7 solve any five questions.

Q.1 Clarify the concept (any 6) **12**

1) Debenture and bonds as sources of finance.
2) Cost of equity.
3) Net working capital.
4) Capital budgeting.
5) Financial management.
6) Weighted average cost.
7) Payback period method.
8) Working capital cycle.

Q.2 Explain financial management with its scope. **10**

Q.3 A) Company has capital structure. **05**

- **i)** Equity share capital = 5,25,000
- **ii)** 20% preference share capital = 1,68,000
- **iii)** 15% Debenture = 7,82,000

  - **a)** Cost of equity = 40%.
  - **b)** Tax rate = 40%
    Calculate WACC

B) Jindal company issued 10,000, 10% preference share of 100 each. Cost of issue is Rs. 2 per share. Calculate cost of preference share capital if share are issued. **05**

1. at par
2. at premium of 10%
3. at Discount of 5%.

Q.4 Explain ARR method with its advantage and disadvantage. **10**

Q.5 Explain futures determining of working capital. **10**

Q.6 You are require to prepare a statement showing the working capital required to finance the level to activity of 24,000 units per year from the following Information. **10**

Selling Price = Rs. 30, Total Cost = Rs. 24
Raw Material = Rs. 12, Direct Labour = Rs. 3
Total cost includes Raw material, Direct Labour and overhead.

1) Raw material in stock on an Average for two months.
2) Production process takes half months.
3) Finish goods are in stock on an average for two months.
4) Credit allowed by supplier is two month.
5) Credit allowed to buyer is three months.
6) Lag in payment of wages is half month.
7) Cash on hand at bank expected to be Rs. 7,000/-

You are informed that all activities are evenly spread out during the year.

Q.7 'D' Ltd. is considering investment in a project required capital outlay of Rs. 2,00,000 for cost for Annual income after Depreciation but before tax is as follows. **10**

Year	Rs.
1	1,00,000
2	1,00,000
3	80,000
4	80,000
5	40,000

Depreciation may be taken at 20% on original cost and tax Rate 50% of net income.
Calculate: Payback period.

Q.8 **Read the following case and answer the questions.** **13**

A) Company, Maharaja Private Limited is planning an Investment in new project. The Investment budget of the company is 30,00,000. Company has following two investment alternative.

	Project A	Project B
Use of life Cash Inflow at the end of year.	5 yrs.	6 yrs.
Year 1	7,00,000	80,000
Year 2	10,00,000	80,000
Year 3	9,00,000	80,000
Year 4	8,00,000	80,000
Year 5	4,00,000	60,000
Year 6		20,000

Above inflow are profit after tax

i) Which project should be selected by company by using Payback Period Method. **07**

B) A company has total Assets of Rs. 10,00,000 and in next year it is planning to expand by 50% for that following information is available. **06**

1) Present Debt equity Ratio is 30:70
2) Company has Rs. 1,25,000 in the form of retained earnings.

Answer the following.

1) Suggest the company about sources of financing.

2) Determine the pattern of raising additional fund if company intends to maintain same proportion of Debt enquiry.

Bachelor of Management Studies Examination: October 2015
Semester – IV (Repeater) (Old Course)

Day & Date	Semester	Subject Name	Time	Code
Tuesday 27/10/2015	IV (Repeater)	Statistics – II	03.00 PM To 05.00 PM	4006

Notes: 1) Q. 1 is compulsory
2) Attempt any five questions from the remaining.
3) Simple calculator and statistical table can be used
4) Graph paper will be provided.

Q.1 Write the answers of following short questions [Any five] **10**

a) Explain Producer's risk and consumer risk.
b) Write a control limits for P chart.
c) Explain – Type I Error and Type II Error.
d) A random sample of 500 items are selected at a random and 20 of them are found to be defective obtain 99% confidence limits for the proportion of defectives in a population.
e) Write the applications of X^2 (Chi-square).
f) What is Hypothesis and write types of Hypothesis.

Q.2 (A) A tea company attained four salesman A, B, C, and D and observed their sales in three seasons – summer, winter and monsoon. The figures (in lakhs) are given in following table. **08**

Seasons	Salesmen				Season's Total
	A	B	C	D	
Summer	26	26	11	25	88
Winter	18	19	21	22	80
Monsoon	16	18	19	19	72
Salesmen Total	60	63	51	66	240

Perform a two way ANOVA using 5% level of significance

(B) Determine the size of a sample, if s.d. of population $\sigma = 6$, population mean = 23, desired degree of precision is 99%. **03**

Q.3 (A) Two samples are drawn from two normal populations, test whether the two sample have same variance at 5% level by using F test. **07**

Sample I	60	65	71	74	76	82	
Sample II	61	66	67	85	78	63	85

(B) A random sample of size 16 items from a normal population have mean 53 and standard deviation 12.5. Obtain 95% and 99% confidence interval for population mean. **03**

Q.4 10 samples each of size 5 are drawn from the product process. Their means and range are given below. Draw X and R chart and write your conclusion. **10**

Sample No.	1	2	3	4	5	6	7	8	9	10
X (mean)	15	16	15	18	17	14	18	15	17	14
R (Range)	7	6	5	9	8	7	10	4	8	2

Q.5 (A) A marketing agency gives you the following information about the age group of a person and their liking for particular model of a car which company plan to introduce. **07**

	Age Group		
Liking	Below 20	20-30	40-59
Liked	115	380	105
Disliked	85	220	95

Test at 5% level of significance by using chi-square.

(B) Explain critical region and acceptance region for 95% and 99% level of significance. **03**

Q.6 (A) The following information about two samples are given below. Test the significance difference between two sample means (Test at 5% level). **07**

Sample	Sample Size	Mean	Standard deviation
A	150	58	8
B	250	62	12

(B) Write a short note on simple random sampling. **03**

Q.7 (A) The specimen of copper wire drawn from a large lot have the following breaking strength. **05**

578, 572, 570, 568, 572, 578, 570, 572, 596, 544.

Test using 't' test whether the mean breaking strength is 578 kg in weight? Test at 5% level of significance.

(B) In a sample of 2000 students from college A. 800 are found to be wearing salwar kameez. In a sample of 1600 students from college B. 700 are found to be wearing jeans. Do these data reveal a significance difference between college A and college B, so far as the proportion of type of dress is concerned (Test at 1% level). **05**

Q.8 (A) An I.Q. test was administrated to 5 persons before and after they are trained the results are given bellow. **06**

Candidates	I	II	III	IV	V
I.Q. before training	110	120	123	132	125
I.Q. after training	120	118	125	136	121

Test there is any change in I.Q. after the training programme? (Test at 1% level by using 't' test.)

(B) Write a short notes (any one) **04**

i) Single sampling plan and double sampling plan.

ii) Define primary and secondary data and write source of secondary data.

iii) Explain the meaning of "statistical quality control" and how control charts can be use to control the quality of manufactured products?

Bachelor of Management Studies Examination: October 2015
Semester – III (Fresh) (New Course)

Day & Date	Semester	Subject Name	Time	Code	Max. Marks
Tuesday 13/10/2015	III (Fresh)	Business Law	11. 00 AM to 02. 00 PM	3001	75

Note: **Question No. 1 & Q. No. 8 are compulsory.**
Attempt any five questions from Q. 2 to Q. 7

Q 1. Define the terms (Any 6) 12

a] Proposal

b] Consideration

c] Free Consent

d] Bill of Exchange

e] Company

f] Coercion

g] Contingent Contract

h] Contract

Q 2. Discuss fully the essential elements of a valid contract. **10**

Q 3. What is an endorsement? Explain the kinds of endorsements. **10**

Q 4. What is Crossing Cheque? What are the different methods of Crossing Cheque? **10**

Q 5. Distinguish between **10**

a] Agreement Vs Contract

b] Fraud Vs Misinterpretation

Q 6. Is registration of Partnership firm compulsory? What are the steps to be followed for getting the partnership firm registered? **10**

Q 7. Write Short Notes (Any 2) **10**

a] Memorandum of Association

b] Minor's position in partnership

c] No consideration No contract

d] Different kinds of Partners

e] Articles of Association

Q 8. Solve the following case study (Any 2) **13**

A] Kim & David knight have recently quit their city Banking Jobs & are looking to establish a designer children's clothing shop in the popular town of Maharashtra. They have already placed order for forthcoming season's fashion & have rented premises on Mumbai, Juhu Road. They are now looking to set up their business as a limited company. What will Kim need to do set up the company?

B] Mr. A developed mall at Mumbai at the request of Mr. B, who is a municipal corporater. Mr. C makes agreement to pay Rs. 3,50,000. Mr. A accept the proposal. This is an agreement or contract. Justify your answer.

C] A owns some money to B under a contract. It is agreed between A, B & C that B must accept C as his debtor instead of A. The old debt from A to B comes to an end & a new loan from C to B is formed. With reference to this case explain discharge of contract.

Bachelor of Management Studies Examination: October – 2015

Semester: III (Fresh) (New Course)

Day & Date	Paper No.	Subject Name	Time	Code
Thursday 15/10/2015	III (Fresh)	Cost and Management Accounting	11. 00 AM to 02. 00 PM	3002

Instructions: 1) Question 1 & 8 are compulsory.
2) Attempt any 5 From question 2 to question 7

Q1. Define the following terms (Any 6) **12**

1. Opportunity cost
2. Job Costing
3. Break Even Analysis
4. "Variable cost per unit is equal to marginal cost" – Justify in brief
5. Budget
6. Variance Analysis
7. Management Accounting
8. Proprietary ratio

Q.2 Following are the details of "Krishna Ltd", prepare a cost – sheet for the year as on 31/03/2015. **10**
Also find out Sales value and profit for the year 2014-15, the company produced 10,000 units for the year 2014-2015. For which data are as under:

Particulars	Amount (Rs.)
Direct Material	10,00,000
Direct Wages	3,00,000
Overhead Expenses (direct)	2,00,000
Factory Electricity	35,000
Depreciation on Factory building	25,000
Carriage Outward	5,000
Carriage Inward	10,000
Other production Overheads	8,000
Administrative Overheads	120% of Factory cost
Commission to Sales Manager	20,000
Advertisement Expenses	10,000
Interest on Loan	80,000
Dividend to preference holders	10,000
Profit	20% on Total cost

Q.3. A) Following are the Financial data about "Yashoda Ltd." **05**

Particulars	Amount (Rs.)
Selling price	30
Variable overheads	12
Other direct expenses	8
Other Fixed expenses	10,00,000

Calculate:

- P. V. Ratio
- Break Even Point (in units)
- Sales required to earn a profit of Rs. 2,00,000 (in units)

B) Following are the details of "Devki Ltd." **05**

Years	Sales	Total Cost
2013	40,00,000	30,00,000
2014	1,20,00,000	70,00,000

Calculate:

- P.V. Ratio
- Fixed Cost
- Break even sales

Q.4 From following details of "Radhika Ltd", calculate Material variances. **10**

Standard:

Materials	Prices & Quantities
A	500 kgs @ 12 per kg.
B	300 kgs @ 10 per kg.
C	1200 kgs @ 8 per kg.

Actual Consumption:

Materials	Prices & Quantities
A	550 kgs @ 11 per kg.
B	290 kgs @ 11 per kg.
C	1300 kgs @ 9 per kg.

Q.5 Following balances are extracted from the balance sheet of "Balram Brothers" as on 31/03/2015 **10**

Particulars	Amount
Total Sales	8,00,000
Cost of goods sold	6,00,000
Net Profit before tax	1,00,000
Debtors	50,000
Bills Receivables	30,000

Closing Stock	1,00,000
Tax rate	30%
Total assets (Balance sheet total)	10,00,000
Owner's Fund	3,00,000
Fictitious assets	1,00,000

Find out:

- Gross profit ratio
- Net profit ratio
- Stock Turnover
- Debtor's ratio
- Propritory ratio

(**Note:** Credit Sales is 75% of total sales)

Q.6 Answer the following questions **10**

1. Explain types of costs in brief.
2. What is Marginal costing? Explain its basic features in brief.

Q.7 Answer the following questions **10**

1) Write a short note on Standard Costing.
2) Draw a format of Cash Flow as per AS – 3.

Q.8 Following are the details of "Vrindavan Ltd." (Manufacturer of Butter). The owner Mr. Shyam wants to know the logical information from the same.

Particulars	**Amount (Rs.)**
Selling price per unit	100
Variable cost per unit	50
Indirect expenses (Fixed)	
- Works over heads	12,00,000
- General office costs	8,00,000
- Selling & Distribution cost	10,00,000
- Numbers of units produced	1,00,000 units

Prepare:

- Cost sheet showing components of total cost. **05**
- Sales required (in units) to reach at Breakeven point. **02**
- Find out Margin of Safety (if any) **02**
- What should a company do for expansion? Give your suggestions. **04**

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Bachelor of Management Studies Semester – III (Fresh) (New Course) Examination: October 2015

Day & Date	Semester	Subject Name	Time	Code	Max. Marks
Saturday 17/10/2015	III (Fresh) (New Course)	Human Resource Management	11. 00 AM to 02. 00 PM	3003	75

Note: 1. Question No-1 & Q-8 is compulsory
2. Attempt any Five from Question No-2 to Q-7

Q.1 Explain the following concepts. 12

a) Job analysis
b) Recruitment
c) HRP
d) Induction
e) Job Specification
f) HRM
g) PM
h) Placement

Q.2 What is recruitment? State the sources of recruitment in detail. 10

Q.3 Define HRP. Enumerate the HRP process in detail. 10

Q.4 Define Induction. Explain the induction procedure in detail. 10

Q.5 What is interview? Give a detail account of different types of interview. 10

Q.6 What is performance appraisal? Explain the following 2 methods of P.A. 10

a) Assessment Centre
b) BARS

Q.7 Write Short Note 10

a) Placement
b) Job Specialization

Q.8 You are a HR manager of an IT firm. You have to recruit freshers & middle level managers. What would be the different interview techniques you will suggest for both? 13

Bachelor of Management Studies Examination: October 2015
Semester – III (Fresh) (New Course)

Day & Date	Semester	Subject Name	Time	Code
Tuesday 20/10/2015	III (Fresh)	Fundamentals of Production & Operations Management	11.00 AM to 02.00 PM	3004

Note: 1. **Question No.1 & 8 are compulsory.**
2. **Attempt any five questions from Q2 to Q7.**
3. **Maximum time allowed 03:00 Hours.**

Q1. Explain the following concepts (Any Six) **12**

a) Operations Management
b) Plant Location
c) Ideal Plant Layout
d) Kanban
e) Routing
f) Scheduling
g) Dispatching
h) Breakdown

Q2. Explain the scope of Operations Management. **10**

Q3. What are the objectives of a good plant layout? **10**

Q4. Explain scheduling what are its objectives types and problems? **10**

Q5. What are the various activities included in prevention maintenance? **10**

Q6.a) Explain the objectives of location decision. **05**

b) What is Kaizan? Explain with definition. **05**

Q7. Write short notes on:- **10**

a) Progressing and its needs
b) Ethics in production and operations management.

Q9. Ganpathy Rao Electricity Board is a state government undertaking involved in the generation, supply and distribution of electric power in an Indian state.

The chairman has requested Prof. Gapala-Krishan to study their problems in maintenance and other managerial areas, with a view to make suitable suggestions. For this purpose he has interviewed a large number of executives in the headquarters, generating stations, workshops and suppliers, beside compiling details from manuals, published documents, press reports, etc.

The company generates power from hydro-stations at ten localities in the state, with a total installed capacity of 200 MW, whereas the thermal stations are spread over in five places with the same total installed capacity.

The terrain of the state in some areas is fairly hills and some of the hydel plants have been operating in places where rail connections have become very difficult. Due to critical power shortage position, the annual maintenance works on machine and feeders, through programmed, could not be carried out. The company at times has faced such unbelievable but not uncommon problems like wild money getting electrocuted, resulting in dislocation of power transmission system. Many lines pass through dense forests and the pre monsoon tree cutting operation becomes very difficult.

At the site, a maintain engineer is in charge of maintenance and reports to the chief engineers. Junior engineers specializing in electrical / mechanical / instrumentation as well as three to eight machines help him in carrying out, the maintenance work for each area. The fitters are more in number in the transmission and distribution system. A regional workshop is attached to each engineer and caters to the minor repairs. There is also one central workshop for the whole board, where major overheating and repairs are done. The maintenance engineers have been trained in the latest plant engineering concepts.

The company is in the process of expansion to meet the acute shortage of power in the state. For this purpose, the company has proposed to install four sets of 210 MW, using the available coal in the state.

Answer the following questions:-

i)	Give appropriate title.	02
ii)	What are the problems faced by the organization?	05
iii)	What factors they should add in their maintenance system to make ideal maintenance?	03
iv)	Company is in the process of expansion, which method would you suggest to avoid breakdown in feature and why?	03

Bachelor of Management Studies Semester – III (Fresh) (New Course) Examination: October 2015

Day & Date	Semester	Subject Name	Time	Code	Max. Marks
Friday 23/10/2015	III (Fresh) (New Course)	Quantitative Techniques For Business	11. 00 AM to 02. 00 PM	3005	75

Note: 1. Question No-1 & 2 are compulsory
2. Attempt any Five from Question No-2 to Q-7.

Q.1 Attempt ant six from the following.

a) If n_1=100; n_2=50, $\overline{x_1}$=60 and $\bar{x}$=70; find $\overline{x_2}$? 02

b) Give methods of collecting secondary data. 02

c) Define Poission Distribution. 02

d) If r=¼; Σd^2=90; find n? 02

e) What is correlation? 02

f) If mean and variance of Binomial distribution are 3 and 2 respectively. Find the parameters? 02

g) If Q_3=73 and Q.D.=11.5 find Q1? 02

h) Give various components of Time series. 02

Q.2 a) Two students A and B set the following marks in examination. The weights of different subjects are given. 05

Subjects	Marks of A	Marks of B	Weight (w)
English	60	30	2
Maths	35	50	4
Science	40	50	3
History	45	40	1

b) Find who is a better student considering weight calculate mean deviation from Arithmetic mean and its coefficient. 05

Marks	0-10	10-20	20-30	30-40	40-50
No. of Students	15	20	40	20	5

Q.3 a) Calculate coefficient of correlation or by using Karl Pearson's formula. 05

Height in cms	120	125	127	130	134	144
Weight in kgs	42	47	48	46	50	49

b) From the following results find the equations of two regression line 05

	Average	S.D
Expenditure on clothes (x)	300	20
Expenditure on Entertainment (y)	100	15

Coefficient of correlation r=0.78
Estimate the expenditure on entertainment (y) when person who spends Rs.380 on clothes.

Q.4 a) What is correlation? Explain positive and negative correlation givers examples. **05**

b) Find the coefficient of rank correlation from the following data **05**

Test Scores	60	50	45	47	53	70	75	57	73	48
Sales (1000 Rs)	30	34	29	28	37	35	40	32	33	23

Q.5 a) Define time series? & write uses of time series. **04**

b) Fit a straight line trend by the method of least square for all the years and find expected production for the year 1997? **06**

Year	1989	1990	1991	1992	1993	1994	1995
No of Shifts	500	550	600	575	625	600	650

Q.6 a) Write the properties of normal curve. **04**

b) If $r_{12}=0.45$, $r_{13}=0.85$ $r_{23}=0.5$ **06**

Calculate $r_{12.3}$ and $R_{1\ (23)}$

Q.7 A firm has 3000 accounts which are normally distributed with mean of Rs.10,000 and standard deviation Rs.1000. Find **10**

i) Number of accounts with amounts lying between Rs.8000 and Rs.11,000?
ii) The number of accounts with an amount of Rs.7,500 or less?

Q.8 a) 60% of the T.V viewers watch news. If 5 T.V. views are selected at random, what is the probability that 4 of them watch news?

b) Calculate mean and median wages

Wage in Rs.	50-60	60-70	70-80	80-90	90-100	100-110	110-120
No of employees	30	35	25	18	27	34	40

GOKHALE EDUCATION SOCIETY'S S.M.R.K.- B.K.- A.K. MAHILA MAHAVIDYALAYA,NASHIK-5					
	BMS. Part II (Sem.-III) Unit Test -I				
	Subject : Cost & Management Accounting				
Date :	24/08/2015	Time :	11.00 am to 12.00 noon	Marks:	25

Instruction - 1) Attempt all questions.

2) Figure to the right are for full marks.

Q 1 a) Define the term cost Accounting ? **5**

b) What are Elements of cost ? **5**

OR

Answer the following questions in short.

a) What is the aggregate of prime cost with direct material? **2**

b) What is combination of works cost? **2**

c) In which overhead Advertising is considered? **2**

d) How total cost is calculated? **2**

e) What will be Nature of material of Leather used in shoe-making business. **2**

Q 2 From the following details of the cost records of cement India ltd. for one month of April-2014 prepare COST- SHEET. **15**

Stock of raw material on 1- 4 - 2014	₹ 75,000 / -
Stock of Row Material 30/04/2014	₹ 91,500 / -
Direct wages	₹ 52,500 / -
Indirect wages	₹ 2,750 / -
Sales	₹ 2,11,000 / -
Work in progress 1st April 2014	₹ 28,000 / -
Work in progress 30th April 2014	₹ 35,000 / -
Purchase of raw material	₹ 66,000 / -
Factory rent, power	₹ 15,000 /-
Depreciation on plant & machinery	₹ 3,500 / -
Expenses on purchases	₹ 1,500 / -
Carriage outward	₹ 2,500 / -
Advertising	₹ 3,500 / -
Office rent & taxes	₹ 2,500 / -
Traveller wages & commission	₹ 6,500 / -
Stock of finished goods 1st April 2014	₹ 54,000 /-
Stock of finished goods 30th April 2014	₹ 31,000 / -

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GOKHALE EDUCATION SOCIETY'S
S.M.R.K.- B.K.- A.K. MAHILA MAHAVIDYALAYA,NASHIK-5
BMS. Sem.- III Part II Unit Test -I

Subject : Business law

Date : 24/08/2015 Time : 9.00 am to 10.00 am Marks: 25

Notes - 1) All questions are compulsory.
2) Figure to the right side indicate full marks.

Q 1 a) Define the term consideration. 5

b) Explain the term " No Consideration , No Contract " & give exceptions to this term. 10

OR

a) Define Partnership as per Indian Partnership Act. 5

b) Explain modes of dissolution of Partnership. 10

Q 2 Write short notes on (Any two) 10

1) Fraud & misrepresentation. 5

2) Elements of contract 5

3) Characteristics of company. 5

4) Private & public Ltd. Company. 5

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GOKHALE EDUCATION SOCIETY'S

S.M.R.K. B.K. A.K MAHILA MAHAVIDYA, NASHIK- 422005

BACHELORS OF MANAGEMENT STUDIES (BMS)

UNIT TEST-I(2015-2016)

Day & date	Semester	Subject Name	Time	Marks
Tuesday 25/08/2015	III	HRM	9.00AM-10.00AM	25

Note: - 1) Attempt any one question from Q1 and Q2.

2) Q3 is compulsory.

Q1. Explain functions and objectives of Human Resource Management. 15 Marks.

OR

Q2.State and Explain the selection procedure in detail. 15 Marks.

Q3. Explain the following concepts (Any5) 10 Marks.

1. Recruitment.
2. Job Analysis.
3. Selection.
4. Job Specification.
5. Human Resource Planning.
6. Induction.
7. Job Design.

--Best of Luck—

GOKHALE EDUCATION SOCIETY'S
S.M.R.K.- B.K.- A.K. MAHILA MAHAVIDYALAYA,NASHIK-5
BMS. Part II Sem.- III Unit Test

Subject : Fundamentals of Production & Operations Management

Date : 25/08/2015 Time : 11.00 am to 12.00 noon Marks: 25

All questions are compulsory

Q. 1. Attempt any **one** of the following: (15 Marks)

1. Define JIT. Explain various components and importance of JIT.
2. Define Plant Location. Explain the types of Location Models.
3. Define Plant Layout. Explain importance and factors influencing Plant Layout.

Q. 2. Write short note on any **Two**: (5×2=10)

1. Product Layout
2. Factors affecting Plant Location decision
3. System approach
4. Functions of Operations Management

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Gokhale Education Society's

S. M. R. K. Arts – Fine Arts, B. K. Commerce, A. K. Science Mahila Mahavidyalaya,

Nashik – 5.

Unit Test No.1 (August 2015-16)

S.Y.B.M.S — **Quantitative Techniques of Business**

Time: 1 hour (9.00 am to 10.00 am) — **Max. Marks: 25**

Date: 26/08/2015

Q. Attempt **any five** of the following (5 marks each)

1. (a) State any three importances of Statistics

   (b) State any one merit and demerit of mean

2. Find M, Q_1, Q_3 of the following raw data

   1,5,2,4,6,7,8,9,10,15,19

3. What is Statistics? Give Functions of Statistics?

4. What is questionnaire? Give its feature.

5. What are Primary Data and Secondary Data? Give its sources.

6. Find P_{68}

Class	10-20	20-30	30-40	40-50	50-60
Frequency	5	10	20	10	5

7. If $\bar{X}$ = 51, $\bar{X}_1$ =45, $\bar{X}_2$=55 Find $n_1 : n_2$

8. Draw the histogram and locate Mode graphically

Class	0-5	5-10	10-15	15-20	20-25	25-30
Frequency	6	8	10	6	4	2