

G H Patel P G Department of Computer Science and Technology  
Master of Computer Applications (MCA)  
PS05CMCA03 (Business Information Systems)  
5<sup>th</sup> October, 2012

Time : 1½ Hours

Marks : 30

- Q-1 Objective Part [14]
- Q-2 (a) Define the terms 'Technology' and 'Information Technology'. List out the major components of an Information System. [3]
- (b) Distinguish between Human and Computers. [2]
- (c) With diagram, explain the architecture of e-Business enterprise. [3]
- Q-3 (a) Define the terms Process Technology and Forecast Error. [2]
- (b) Distinguish between Natural processes and Artificial processes [2]
- (c) List and explain various engineering approaches for solving problems. [4]

\*\*\* THE END \*\*\*

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G H Patel P G Department of Computer Science and Technology  
Sardar Patel University  
Master of Computer Applications (MCA)  
MCA-V Semester  
PS05CMCA03 (Business Information System)  
18<sup>th</sup> September, 2015

Marks : 30

e : 1½ Hours

- A] Choose the most appropriate answer among the given options. [4]
- \_\_\_\_\_ includes all activities that ensure that actual performance is in accordance with planned performance?  
[A] Planning      [B] Controlling      [C] Organizing      [D] None of these
  - \_\_\_\_\_ is the creation of products from some combination of basic and preexisting subsystems?  
[A] Technology      [B] Standardization      [C] Modular Design      [D] None of these
  - The \_\_\_\_\_ strategy helps in becoming a low-cost producer in the industry allows the company to lower prices to customers?  
[A] Innovation      [B] growth  
[C] differentiation      [D] None of these
  - \_\_\_\_\_ is an internet-like network within an organization.  
[A] Extranet      [B] Intranet      [C] Internet      [D] VPN
- B] Do as directed (ANT THREE) : [6]
- Define operations management. And list any two views of it.
  - What is productivity? List its types also.
  - What is Digital India? Write down visions of Digital India.
  - Differentiate: Humans vs. Computers.
- C] What is R&D? List various components of innovation. Explain each one in brief. [5]
- D] List various types of process technologies. Explain each one in brief. [5]
- OR
- E] Discuss in detail: Computer Integrated Manufacturing (CIM). [5]
- F] What is 'Information System'? List down major components of an Information System and explain any two of them in details. [5]
- G] Define the term 'Information Quality'. List down various attributes of an Information Quality and explain any two of them. [5]
- OR
- H] List down nine pillars of Digital India Mission. Explain any two of them. [5]

**SARDAR PATEL UNIVERSITY**  
**G H PATEL P G DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY**  
**MASTER OF COMPUTER APPLICATIONS (MCA)**  
**PS05CMCA03 (BUSINESS INFORMATION SYSTEMS)**  
**INTERNAL EXAMINATIONS (SEMESTER – V) 9<sup>TH</sup> SEPTEMBER 2016**

Time : 1½ Hour

{ 4 }

Marks : 30

**Q-1 Choose the most appropriate option for each question:**

- (i) \_\_\_\_\_ is a kind of research used for the advancement of scientific knowledge that has specific commercial uses.  
[A] Basic research [B] Development  
[C] Applied Research [D] None of these
- (ii) \_\_\_\_\_ is a programmable machine capable of moving materials and performing routine, repetitive tasks.  
[A] Robotics [B] Robot [C] A and B both [D] None of these
- (iii) An Internet-like network within an organization is known as  
[A] Internet [B] Intranet [C] Extranet [D] None of these
- (iv) Knowledge workers are individuals who are valued for their ability to act and communicate with \_\_\_\_\_ within a specific subject area.  
[A] expertise [B] information [C] knowledge [D] data

**-2 Answer the following questions (ANY THREE):**

[6]

- Distinguish between forecasting and prediction.
- What is Modular design? Explain it taking suitable example.
- What is Digital India? State visions of Digital India.
- State the role of Information Technology in a Business.

3 [a] What is Operations Management? List different views of it. Explain any one of them in detail. [5]

[b] What is Layout? Explain different types of Layout in brief. [5]

OR

[b] Explain productivity and quality in detail taking suitable examples. [5]

[a] Define – Information Technology. Explain the use of Information Technology in dairy sector and state various benefits of using IT in dairy sector. [5]

[b] Explain – 'Information Quality'. [5]

OR

[b] List down five generic competitive forces that shape the structure of competition in its industry and explain five basic competitive strategies. [5]

\*\*\* The End \*\*\*

**SARDAR PATEL UNIVERSITY**  
**MASTER OF COMPUTER APPLICATIONS (MCA)**  
**SEMESTER – V**  
**PS05CMCA03 (BUSINESS INFORMATION SYSTEMS)**  
**19<sup>TH</sup> NOVEMBER, 2016**

Time : 11:00 a.m. to 2:00 p.m.

Marks : 70

Note : Answers of all the questions (including multiple choice questions) should be written in the provided answer book only.

**Q-1 Pick up the most appropriate answer from the given alternatives and write in your answer book. (8)**

(i) \_\_\_\_\_ is the level of scientific sophistication in plant, equipment, and skills in the conversion process.

[A] Information [B] Technology [C] Data [D] None of these

(ii) \_\_\_\_\_ is an estimate of a future event achieved through subjective considerations other than just past data.

→ [A] Prediction [B] Forecasting [C] A and B both [D] None of these

(iii) \_\_\_\_\_ is the means of accomplishing the activity or the task..

[A] Activity [B] Task [C] Agent [D] None of these

(vi) \_\_\_\_\_ is not planning, leading, trouble-shooting, or any other human-centred roles of the typical manager.

→ [A] Process managing [B] Process Designing

[C] Process Capturing [D] None of these

(v) Machine Control system is an example of \_\_\_\_\_.

[A] Operational [B] Management [C] Knowledge [D] None of these

(vi) The term \_\_\_\_\_ means buying and selling, and marketing and servicing of products, services and information over a variety of computer networks.

[A] e-Commerce [B] e-Business [C] e-Bay [D] None of these

(vii) The \_\_\_\_\_ strategy helps in becoming a low-cost producer in the industry allows the company to lower prices to customers.

[A] growth [B] innovation [C] differentiation [D] None of these

(viii) An Internet-like network between two or more organizations is known as-

[A] Internet [B] Intranet [C] Extranet [D] None of these

**Q-2 Attempt the following: (ANY SEVEN)**

(14)

i. What is Research and Development (R&D)? List its components.

ii. Define Robot and Robotics.

iii. Distinguish between dependent demand and independent demand.

iv. Define Cybernetics and Production Line.

v. Explain modeling notations used in process capturing.

vi. Define Technology and Information Technology.

vii. Write down various differences between Humans and Computers.

**BJS**  
 viii. Define 'Knowledge Worker'. State the role of knowledge worker in an organization.

ix. Define 'Information Quality'. List down three quality dimensions of it.

x. Write the full-form of: ERP, HRMS, DSS, OJAS.

**Q-3** (a) What is Process technology? List its types and explain any four of them in brief.

(b) Explain Computer-Integrated Manufacturing (CIM) in detail.

OR

(b) What is Material Requirements Planning (MRP)? List its objectives. Explain all them in brief.

**Q-4** (a) List kinds of processes. Explain any five of them in brief.

(b) Explain process domains in detail.

OR

(b) List various issues involved in process context. Explain any five of them in brief.

**Q-5** (a) What is 'Information System'? Explain different components of an Information System.

(b) State the role of Information Technology in Government Sector.

OR

(b) Write a note on Digital India Mission.

**Q-6** (a) What is Portal? Write a note on EIP

(b) List down names of various functional areas within business. Explain any two of them.

(b) Consider a university running more than 200 programmes (including UG and PG programmes). All these programmes run in a semester system.

Approximately 45000 students are studying the university. University plans to implement ONLINE ADMISSION process for all these programmes.

Answer the following:

- State the kind of infrastructure required for online admission process.
- Identify the major functional areas that are covered by the automation.
- State various benefits and challenges in the automation.

**G. H. Patel P. G. Department of Computer Science and Technology  
Master of Computer Applications  
MCA - V Internal Examinations  
PS05CMCA03 [Business Information Systems]  
25/09/2017**

**Time: 11:00 am to 12:30 pm**

**Max. Marks: 30**

**Q-1 Choose the most appropriate option for each question: [4]**

1. \_\_\_\_\_ is a kind of research used for the advancement of scientific knowledge that has specific commercial uses.  
[A] Development [B] Implementation [C] Basic Research [D] None of these
2. A \_\_\_\_\_ is an estimate of a future event achieved by predetermined way of past data analysis.  
[A] Prediction [B] Forecast [C] A and B both [D] None of these
3. An Internet-like network within an organization is known as \_\_\_\_\_.  
[A] Internet [B] Intranet [C] Extranet [D] None of these
4. Machine Control system is an example of \_\_\_\_\_.  
[A] Operational [B] Management [C] Knowledge [D] None of these

**Q-2 Answer the following questions (ANY THREE): [6]**

1. Differentiate between Dependent demand and Independent demand.
2. What is Productivity? List types of Productivity.
3. Differentiate between Human and Computer.
4. Write the full-form of: RSS, HRMS, DSS, ESS.

**Q-3 Answer the following questions:**

- A. What is Research and Development? List its components and explain each of them in brief. [5]
- B. Discuss Computer-Integrated Manufacturing (CIM) in detail. [5]

**OR**

- B. Define the term Layout. List and explain different types of Layout in brief. [5]

**Q-4 Answer the following questions:**

- A. Define : 'Information System'? List and explain in brief, major components of an Information System. [5]
- B. Define : 'Information Quality'. List down various attributes of an Information Quality and explain any two of them. [5]

**OR**

- B. List down nine pillars of Digital India Mission. Explain any two of them. [5]

[153/A34]

# SARDAR PATEL UNIVERSITY

## MASTER OF COMPUTER APPLICATIONS (MCA)

SEMESTER - V

PS05CMCA03 (BUSINESS INFORMATION SYSTEMS)

27<sup>th</sup> OCTOBER, 2018, Saturday

Marks : 70,

Time : 2:00 p.m. to 5:00 p.m.

Note : Answers of all the questions (including multiple choice questions) should be written in the provided answer book only.

**Q-1** Pick up the most appropriate answer from the given alternatives and write (8)  
in your answer book.

- (i) A \_\_\_\_\_ is the physical configuration of departments, work stations, and equipment in the conversion process.  
[A] Machine      [B] Layout      [C] Tool      [D] None of these
- (ii) CAD stands for \_\_\_\_\_.  
[A] Computer-Aided Design      [B] Computer-Assisted Design  
[C] Computer-Aided Development      [D] None of these
- (iii) A \_\_\_\_\_ is a kind of process exists only as a model, as it does not possess sufficient information for it to be used directly in the real world.  
[A] Control process      [B] Customized process  
[C] Generic process      [D] None of these
- (iv) \_\_\_\_\_ is the study of control and communication in natural and artificial systems.  
[A] Project      [B] Cybernetics      [C] Procedure      [D] None of these
- (v) \_\_\_\_\_ is a term for data sets that are so large or complex that traditional data processing application software is inadequate to deal with them.  
[A] Small Data      [B] Big Data      [C] Complex Data      [D] None of these
- (vi) \_\_\_\_\_ in today's workforce are individuals who are valued for their ability to act and communicate with knowledge within a specific subject area.  
[A] Knowledge experts      [B] Knowledge workers  
[C] Experts      [D] None of these
- (vii) E-Business enterprise depends on -  
[A] the Internet      [B] Intranets      [C] IT      [D] all of these
- (viii) An Internet-like network between two or more organizations is known as -  
[A] Internet      [B] Intranet      [C] Extranet      [D] None of these

**Q-2** Attempt the following: (ANY SEVEN)

(14)

- i. Define: System. Write examples of it.
- ii. What is robot? Explain benefits of it.
- iii. Define: Activity and Agent.
- iv. Explain role and sub-role in brief.

(1)

(CPTo)

- v. Define Technology and Information Technology.
- vi. What is Digital India Programme? State the vision of Digital India programme.
- vii. What is Odoo? Why is it used?
- viii. List down fundamental strategic advantage of strategic information system.
- ix. Define the terms 'Big Data' and 'Data Curation'.
- x. Write the full-form of: ICT, CBIS, ICT, RoR.

**Q-3** (a) What is process technology? List and explain types of process technologies. (6)  
 (b) Define: Forecasting. List and explain types of forecasting. (6)

OR

(b) Explain research and development in detail. (6)

**Q-4** (a) Discuss model of process domains in detail. (6)  
 (b) Explain operational processes taking suitable examples. (6)

OR

(b) List and explain different process context issues (ANY SIX). (6)

**Q-5** (a) What is 'Information System'? Explain different components of an Information System. (6)  
 (b) Define the term 'Information Quality'. Explain various dimensions of an Information Quality. (6)

OR

(b) List down pillars of Digital India Mission. Explain any two of them. (6)

**Q-6** (a) Explain : e-Business Application Architecture. (6)  
 (b) List down names of various functional areas within business. Explain any two of them. (6)

OR

(b) Explain – MRP-I, MRP-II and ERP by taking suitable example. (6)

—X—  
 (2)

9/A-25.) SEAT No. \_\_\_\_\_

TOTAL NO. OF PRINTED PAGES : 02

**SARDAR PATEL UNIVERSITY**  
**MASTER OF COMPUTER APPLICATIONS (MCA)**

SEMESTER - V

PS05CMCA03 (BUSINESS INFORMATION SYSTEMS)

11<sup>TH</sup> APRIL, 2019, Thursday

Time : 10:00 a.m. to 1:00 p.m.

Marks : 70

Note : Answers of all the questions (including multiple choice questions) should be written in the provided answer book only.

Q-1 Pick up the most appropriate answer from the given alternatives and write in your answer book. (8)

- (i) \_\_\_\_\_ is a collection of objects related by regular communication and interdependence.  
[A] Controlling    [B] Organizing    [C] Planning    [D] None of these
- (ii) \_\_\_\_\_ is a programmable machine.  
[A] Robot                                 [B] Robotics  
[C] Both [A] & [B]                      [D] None of these
- (iii) In business process, \_\_\_\_\_ are referred as sub-roles.  
[A] Sub-modules                         [B] Modules  
[C] Both [A] & [B]                        [D] None of these
- (iv) Demand of one product linked with demand of another product called as \_\_\_\_\_.  
[A] Independent demand                [B] Dependent demand  
[C] Both [A] & [B]                        [D] None of these
- (v) The \_\_\_\_\_ strategy helps in becoming a low-cost producer in the industry allows the company to lower prices to customers.  
[A] growth                                [B] innovation                        [C] differentiation                    [D] None of these
- (vi) CRM stands for  
[A] Consumer Relation Management  
[B] Customer Relationship Management  
[C] Customer Relatives Management  
[D] Customer Related Management
- (vii) E-Business enterprise depends on -  
[A] the Internet    [B] Intranets                                 [C] IT                                        [D] all of these
- (viii) An Internet-like network between two or more organizations is known as -  
[A] Internet            [B] Intranet                                 [C] Extranet                                [D] None of these

Q-2 Attempt the following: (ANY SEVEN)

- i. Explain forecasting.
- ii. What is system? Give examples.
- iii. What is process capturing?
- iv. Explain Conceptual Models and Role Activity Diagrams in brief.

(Contd..)

(1)

- v. Define Technology and Information Technology.
- vi. What is Digital India Programme? State the vision of Digital India programme.
- vii. List down fundamental strategic advantage of strategic information system.
- viii. Define the terms 'Big Data' and 'Data Curation'.
- ix. Explain the term 'Extranet' with an example.
- x. Write the full-form of: IT, ERP, ICT, RoR.

- Q-3** (a) Define: operations management. List and explain different (Any two) views of it. (6)  
(b) List various kinds of processes. Explain each one in one or two lines. (6)

OR

- (b) Write a short note on CIM. (6)

- Q-4** (a) List and explain different process context issues in brief. (6)  
(b) Explain all components of process domains in brief. (6)

OR

- (b) Explain process design in detail. (6)

- Q-5** (a) Explain the meaning and components of an Information System. (6)  
(b) Define - 'Information Quality'. Explain various dimensions of an Information Quality. (6)

OR

- (b) List down pillars of Digital India Mission. Explain any two of them. (6)

- Q-6** (a) Write a note on 'e-Business Application Architecture'. (6)  
(b) List down names of various functional areas within business. Explain any two of them. (6)

OR

- (b) Explain – ERP and SCM by taking suitable example. (6)

A-25) SEAT No. \_\_\_\_\_

TOTAL NO. OF PRINTED PAGES : 02

# SARDAR PATEL UNIVERSITY

MASTER OF COMPUTER APPLICATIONS (MCA)

SEMESTER - V

PS05CMCA03 (BUSINESS INFORMATION SYSTEMS)

11<sup>TH</sup> APRIL, 2019, Thursday

Time : 10:00 a.m. to 1:00 p.m.

Marks : 70

Note : Answers of all the questions (including multiple choice questions) should be written in the provided answer book only.

Q-1 Pick up the most appropriate answer from the given alternatives and write (8) in your answer book.

(i) \_\_\_\_\_ is a collection of objects related by regular communication and interdependence.

- [A] Controlling [B] Organizing [C] Planning [D] None of these

(ii) \_\_\_\_\_ is a programmable machine.

- [A] Robot [B] Robotics  
[C] Both [A] & [B] [D] None of these

(iii) In business process, \_\_\_\_\_ are referred as sub-roles.

- [A] Sub-modules [B] Modules  
[C] Both [A] & [B] [D] None of these

(iv) Demand of one product linked with demand of another product called as

- \_\_\_\_\_ [A] Independent demand [B] Dependent demand  
[C] Both [A] & [B] [D] None of these

(v) The \_\_\_\_\_ strategy helps in becoming a low-cost producer in the industry allows the company to lower prices to customers.

- [A] growth [B] innovation [C] differentiation [D] None of these

(vi) CRM stands for

- [A] Consumer Relation Management  
[B] Customer Relationship Management  
[C] Customer Relatives Management  
[D] Customer Related Management

(vii) E-Business enterprise depends on -

- [A] the Internet [B] Intranets [C] IT [D] all of these

(viii) An Internet-like network between two or more organizations is known as -

- [A] Internet [B] Intranet [C] Extranet [D] None of these

Q-2 Attempt the following: (ANY SEVEN)

(14)

- Explain forecasting.
- What is system? Give examples.
- What is process capturing?
- Explain Conceptual Models and Role Activity Diagrams in brief.

(1)

(Contd..)

- v. Define Technology and Information Technology.
- vi. What is Digital India Programme? State the vision of Digital India programme.
- vii. List down fundamental strategic advantage of strategic information system.
- viii. Define the terms 'Big Data' and 'Data Curation'.
- ix. Explain the term 'Extranet' with an example.
- x. Write the full-form of: IT, ERP, ICT, RoR.

**Q-3** (a) Define: operations management. List and explain different (Any two) views of it. (6)

(b) List various kinds of processes. Explain each one in one or two lines. (6)

OR

(b) Write a short note on CIM. (6)

**Q-4** (a) List and explain different process context issues in brief. (6)

(b) Explain all components of process domains in brief. (6)

OR

(b) Explain process design in detail.

**Q-5** (a) Explain the meaning and components of an Information System.

(b) Define - 'Information Quality'. Explain various dimensions of an Information Quality.

OR

(b) List down pillars of Digital India Mission. Explain any two of them.

**Q-6** (a) Write a note on 'e-Business Application Architecture'.

(b) List down names of various functional areas within business. Explain any two of them.

OR

(b) Explain – ERP and SCM by taking suitable example.

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