

Exam Date & Time: 03-May-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES

END SEMESTER THEORY EXAMINATIONS - MAY 2018

PROGRAM: MPHARM SEMESTER 2 (PHARMACEUTICAL REGULATORY AFFAIRS)

DATE: 03/05/2018

TIME: 02:00 PM - 5:00 PM

Regulatory Aspects of Drugs and Cosmetics [PQA-MRA201T]

Marks: 50

Duration: 180 mins.

a

Answer all the questions.

Answer the following (5 marks x 8 = 40 marks)

- 1) Write the marketing authorization procedures for drugs in European Union. (5)
- 2) Write the regulatory consideration for manufacturing and distribution of cosmetics in Japan. (5)
- 3) Write briefly the EDQM inspection programme for Compliance of European Pharmacopoeia (CEP) application. (5)
- 4) Write the marketing authorization requirement for drugs in Russia. (5)
- 5) Write the content and format for Certificate of Pharmaceutical Product. (5)
- 6) Which are the documents required for the EAC declaration and state registration of Cosmetics in CIS countries. (5)
- 7) Write the marketing authorization procedure for drugs in Saudi Arabia. (5)
- 8) Discuss in detail organization structure and functions of FDA. (5)

b

Answer all the questions.

Answer the following with specific answers (2 marks x 5 = 10 marks)

- 9) Write the importance of purple book. (2)

A)

- B) Write a note on Orphan Drug Designation program. (2)
- C) Write a note on FDA's role in a recall of cosmetics in US market. (2)
- D) What are the contents in IMPD? (2)
- E) What is type II variation? Give two example for the same. (2)

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Time: 05-May-2018 (02:00 PM - 05:00 PM)



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MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES
END SEMESTER THEORY EXAMINATIONS - MAY 2018

PROGRAM: MPHARM SEMESTER 2 (PHARMACEUTICAL REGULATORY AFFAIRS)

DATE: 05/05/2018

TIME: 02:00 PM - 5:00 PM

Regulatory Aspects of Herbal and Biologicals [PQA-MRA202T]

Marks: 50

Duration: 180 mins.

a

Answer all the questions.

Answer the following (5 marks x 8 = 40 marks)

- 1) Discuss the process development requirements for biologics as per USFDA. (5)
- 2) Discuss the difference between "generic drug" and "biosimilar drug". (5)
- 3) Explain the quality and safety requirements for herbal drugs necessitated by WHO. (5)
- 4) What are the "competent authorities" and "types of manufacturing licenses" for biologics approval in India? (5)
- 5) Briefly discuss the principles of development of similar biologics as per CDSCO. (5)
- 6) Explain the quality attributes in development and manufacturing process of biologics in EU. (5)
- 7) Discuss the development and registration process of vaccine in India. (5)
- 8) Discuss the labelling standards for blood and blood components as per US regulations. (5)

b

Answer all the questions.

Answer the following with specific answers (2 marks x 5 = 10 marks)

- 9) What are the types of 510k applications? (2)

A)

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- B) What are "biological contaminants" in herbal drugs?
- C) Define "Specification". Enlist any four specifications for biologics as per EU.
- D) Write any two strategic goals of International Haemovigilance Network (IHN). (2)
- E) What is VAERS? (2)

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Time: 07-May-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES
END SEMESTER THEORY EXAMINATIONS - MAY 2018

PROGRAM: MPHARM SEMESTER 2 (PHARMACEUTICAL REGULATORY AFFAIRS)

DATE: 07/05/2018

TIME: 02:00 PM - 5:00 PM

Regulatory Aspects of Medical Devices [PQA-MRA203T]

Marks: 50

Duration: 180 mins.

a

Answer all the questions.

Answer the following (5 marks x 8 = 40 marks)

- 1) Enlist the general essential principles for safety and performance applicable to all medical devices including IVD medical devices as per GHTF guidelines. (5)
- 2) What are the exemption rules for not reporting the Adverse event with examples as per GHTF guidance document? (5)
- 3) Mention in detail the contents of STED document for IVDs as mentioned in GHTF (5)
- 4) Classify medical software as per IMDRF with appropriate examples. (5)
- 5) List ASEAN countries and name the regulatory bodies and acts governing Medical devices in each of them. (5)
- 6) Classify SaMD on basis of risk in the information provided by SaMD to decide on treatment and write in brief the categorization principles of Software as Medical device (SaMD). (5)
- 7) Write an note on CE marking as per EU directives. (5)
- 8) Write the active medical devices approval process as per EU. (5)

b

Answer all the questions.

Answer the following with specific answers (2 marks x 5 = 10 marks)

- 9) Mention the adverse event reporting timeline for medical devices as per ASEAN directives. (2)

- A)
- B) Define medical devices and IVDs with examples.
- C) Explain the types of 510(k) Submissions as per USFDA. (2)
- D) Write a short note on Medical device approval procedure in Singapore. (2)
- E) Classify non-invasive medical devices based on risk and intended use with suitable example.

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Time: 09-May-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES
END SEMESTER THEORY EXAMINATIONS - MAY 2018

PROGRAM: MPHARM SEMESTER 2 (PHARMACEUTICAL REGULATORY AFFAIRS)

DATE: 09/05/2018

TIME: 02:00 PM - 5:00 PM

Regulatory Aspects of Food and Nutraceuticals [PQA-MRA204T]

Marks: 50

Duration: 180 mins.

a

Answer all the questions.

Answer the following (5 marks x 8 = 40 marks)

- 1) Explain the ambiguity of nutraceutical nomenclature. (5)
- 2) Write a note on the process of WHO guideline development. (5)
- 3) Write a note on food equipment certification by NSF. (5)
- 4) Write a note on "Sampling Procedure" by food safety officers as per FSSA. (5)
- 5) Write a note on NSF certification. (5)
- 6) Write a note on dietary supplement labelling requirements as per USFDA. (5)
- 7) Explain the types of Dietary Reference Values in Europe in brief. (5)
- 8) Write the methods for deterring the nutritional requirements. (5)

b

Answer all the questions.

Answer the following with specific answers (2 marks x 5 = 10 marks)

- 9) What is SWIFT? (2)
 - A)
 - B) What is fortification of food as per FSSA? (2)

- C) What are the compliance dates for dietary supplement GMP rules in US?
- D) Name any two minerals which have a significant difference in recommended allowance in India and European Union? Why?
- E) Name any four functions of US food GMP inspector.

(2)

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