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Time: 3 hours
Total Marks: 75 Marks
       Note:-All questions are compulsory
              Figures to the right indicate marks
              Please check whether you have got the right question paper.
QΙ
        Multiple Choice Questions
 1
       In clinical studies for new chemical entity, safety evaluation is done in
                 Phase I
                 Phase II
       b
                 Phase III
                 Phase IV
       d
 2
       New drug application is filed under following section of Federal FD&C acr
                 505 b1
                 505 b2
       b
                 505 j
       c
                 505 a
       d
 3
       Type IV DMF is applicable for
                 Drug substance
                 Excipient
                 Manufacturing site
                 Packaging material
       Orange book data base is published by regulatory agency of following country
                 USA
                 Europe
                 India
                 Japan
       Medicines and Health Care Products Regulatory Agency (MHRA) is regulatory body
       of
                 USA
                 UK
                 Canada
                 South Africa
       d
       IND is referred to as
                 Investigational New Drug
                 Investigational Novel Drug
                 Investigational Novel Dosage
                 Investigational New Dosage
        d
       Following body in USFDA for approval of drugs
                 BLA
                 IND
                 NDA
                 CDER
       CMC stands for
                 Chemistry, Manufacturing, and Controls
                 Chemical and Medicinal Control
                 Chemical and Manufacturing Control
                 Chemical and Managerial Control
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9	The application that contains information to show that the proposed product is identical		
	to pre	viously approved reference listed drug (RLD) is known as	
	a	ANDA	
	b	NDA S S S	
	c		
	d	ADA A A A A A A A A A A A A A A A A A A	
10	Module 4 of CTD deals with		
	a	Clinical study reports	
	b	Non clinical study report	
	c	Quality reports	
	d	Administrative reports	
11	Committee for Medicinal Products for Human Use (CHMP) comes under		
	a	FDA	
	b	EMEA	
	c	TGA	
	d	MHRA	
12	Gener	ic companies that are first to file ANDA are get marketing exclusivity for	
	days		
	a	120 days	
	b	90 days	
	$\mathcal{L}_{\mathbf{c}}$	180 days	
	d	45 days	
13	SUPAC means		
) )	a	Scale up post approval changes	
	b	Scale up pre approval changes	
	√C.	Scale up pre agreement changes	
	d	Scale up post agreement change	
14	Para	II filing for ANDA certification indicates that	
(2)	a	No relevant patent is listed in the Orange Book	
	h	The listed patent has expired	
	C	The listed patent, plus any other exclusivity, will expire before the requested	
	£ .	approval	
	d	The listed patent is invalid or will not be infringed by the commercialization	
	u Q	of the generic drug	
15	Marke	eting Authorization Application (MAA) is submitted to regulatory agency of	
	a	USA	
	h	Europe	
	S C	India	
	d S	Japan	
16	Institutional review board monitors		
	a	biomedical research involving animals	
	b	biomedical research involving cell lines	
	C	biomedical research involving human subjects	
	d &	biomedical research involving pathogens	
	u	bioincurear research involving paulogens	
17	Follow	ing ICH guideline applies to Good Clinical Practice(GCP)	
17		E5	
	a	E6 E6	
	C /	E7 E7	
	d d	E7 E8	
	u		

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## Paper / Subject Code: 14224 / Pharmaceutical Regulatory Science

18	Following member ensures safety of subjects participating in clinical trial			
	a Investigator			
	b Sponsor			
	c Patient			
	d Reviewer			
19	How many drugs can be imported under single Form 11 license			
	a 20			
	b 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			
	c 10			
	d 15			
20	Drug regulatory Authority of Australia is			
	a TGA			
	b SFDA			
	c MHLW			
	d ANVISA			
O. II	Attempt any two questions out of three (20)			
•		_		
I.	A. Enlist the various stages of drug discovery & development of new	3		
	medicine and discuss in clinical studies.	کے		
TT - S	B. Explain the concept of marketing exclusivity and mention different types	5		
II.	A Discuss the application and approval process for NDA	'		
TIT.	B Explain the key features of Hatch and Waxman Act	2		
Ш	A Write a note on ASEAN CTD  B Explain the organization and functions of European Union regulatory	5		
	1	)		
	agency			
Q. III	Attempt any seven questions out of nine (35)			
1.	Explain the composition and role and responsibilities of Institutional Review Board	5		
2.	Write a note on Orange book database and mention its coding system	5		
3.	What is DMF? Explain different types of DMF	5		
9 4.	Discuss the contents of clinical trial protocols	5		
5.	Explain the concept of SUPAC guidelines with reference to immediate release	5		
	dosage forms			
6.	Differentiate between IND and ANDA	5		
7.	Explain GCP obligations of investigators, sponsors and monitors	5		
<b>8.</b>	Write a note on Decentralized procedure for approval of drug in EU	5		
9.		5		
	India also also also also also also also als			

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