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Roll No..... Total No. of Questions : 05
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Code No. : B-285(B)

Annual Examination - 2017

B.Sc.-III

INDUSTRIAL CHEMISTRY

Paper-II

PHARMACEUTICALS

Max.Marks : 33

Time : 3 Hrs. **Min.Marks : 11**

¹¡ãq ß Zà¾u§ý ¢§ýà¢ y¡ ¥§ý ZàÎÀà Ñv §ýLâk¥ ñ ysã ZàÎÀàà¡ §ý ¡§ý ytàÀà Ñ¡ ñ

Note : Attempt one question from each unit. All questions carry equal marks.

Unit-I

ZàÎÀà-1. sàÊm t¡ ¡àxâo £ùà¹à §ý âw§ýày qÊ âÀàro âvâh¥ ñ

Write an essay on development of pharmaceutical industry in India.

OR

â¹¡Àq½àã âvâh¥ / Write notes on ß

¡) ¡àxâo ZàÀàu §ýÊÂà §ý mÊã§ý (Routes of drug Administration)

r) BP ¥w EP Äýàtà§ýàâquà (BP and EP Pharmacopoeias)

Unit-II

ZàÎÀà-2. âÂàÈÂà §ýà âwÐmàÊqwÊ§ý ytà¢¥ ß

Describe the following in detail :

¡) qâÊÊÕà§ý (Preservatives)

r) Zàâm ¡à¨yã§ýàÊ§ý (Antioxidants)

OR

âwy§ýt½à §ýL âwâsÂÂà âwâouà¡ ¥w ¹à½àwÙàà âÂàuØà½à §ýL Íuà©uà §ýLâk¥ ñ

Describe various methods of sterilization and quality control.

Unit-III

ZàÎÀà-3. â¹¡Àq½àã âvâh¥ / Write notes on ß

¡) Äýàtà Ðuà¹¡§ýv qà§ý¹à yàt¹àã (Pharmaceutical packaging materials)

r) hàù ¥w ¡àxâo ¡âoâÂàut (Food and Drug Act)

P.T.O.

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OR

¡àxâouà§ýL ªà½àwÙàà âÂàuØà½à t¦ âwy§ýt½à qÊãÕà½à §ýL sât§ýà §ýà ytlà¢¥ ñ

Explain the role of sterility testing in quality control of drugs.

Unit-IV

ZàÎÂà-4. âwâsÂÂà §ýà t¦¹àªààÄýLu âwâouà§ýà yÕàq t¦ w½àÂà §ýLâk¥, âkÂà§ýà £quàªà §ý°jã ¡àxâouà§ý qÑjàÂà Ñm¦ â§ýuà kàmà Ñ¦ ñ

Describe in brief various chromatographic methods which are used in identification of crude drugs.

OR

Describe the methods of evaluation of crude drugs.

§ý°jã ¡àxâo §ý tÌuà§ýÂà §ýL âwâouà§ýà w½àÂà §ýLâk¥ ñ

Unit-V

ZàÎÂà-5. qÊtà½à¡ wÎààx½àà§ý Ðq¨¹àÐ§ýàqã §ý ây÷àm ¥w¦ ¡ÂàZàuàªà §ýà w½àÂà §ýLâk¥ ñ

Describe the principle and application of atomic absorption spectroscopy.

OR

â¹Äq½àã âvâh¥ / Write notes on ß

¡) rãuy¦-vÈr¹¦ âÂàut (Beers-Lambert's Law)

r) X-â§ýÊ½à ZàâmÀãâÄm (X-Ray Fluorescence)

---x---

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OR

¡àxâouà§ýL ªà½àwÙàà âÂàuØà½à t¦ âwy§ýt½à qÊãÕà½à §ýL sât§ýà §ýà ytlà¢¥ ñ

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---x---