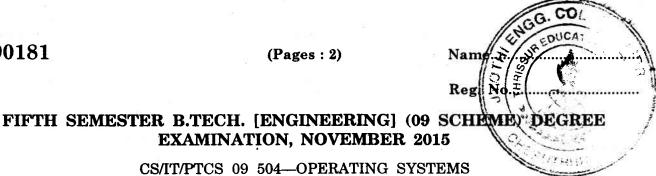
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# **EXAMINATION, NOVEMBER 2015**

## CS/IT/PTCS 09 504-OPERATING SYSTEMS

**Time : Three Hours** 

Maximum : 70 Marks

### Part A

### Answer all the questions.

1. Is OS a resource manager ? If so justify your answer.

2. What is process control block?

3. What is critical section problem?

4. What is virtual memory ?

5. What are the attributes of a file?

#### Part B

Answer any four questions.

6. Explain design factors of Operating System.

Explain various storage devices. 7.

8. Write about Semaphores.

Explain dynamic loading and dynamic linking. 9.

10. What are the various file operations ?

11. Write note on Efficiency and usage of disk space.

 $(4 \times 5 = 20 \text{ marks})$ 

## Part C

Answer all the questions.

12. (a) Explain disk management in detail.

Or

(b) Explain the various threading issues.

13. (a) Write about the various CPU scheduling algorithms.

#### Or

(b) Explain the Banker's algorithm for deadlock avoidance.

 $(5 \times 2 = 10 \text{ marks})$ 

14. (a) Explain about configures memory allocation.

and a set of the set

#### Or

2

(b): Explain the basic concepts of segmentation:

#### endine of the Or the of entity of

(b) Write notes about the protection strategies provided for files.

# $(4 \times 10 = 40 \text{ marks})$

Autor all in quarting

- Is OS a resource manager? If so justify your answer
  - What is prodies control block?
  - What is critical section problem.
    - T whith without manning T
  - S. Whit are the attributer of a file "

 $(5, 1) \stackrel{\circ}{=} 10$  (second)

#### Anether any fast questions.

- Healthin distant factors of Dornaling Systems.
  - Explain various starsne devices.
    - 8. Write about Semaphores.
- 9. Explain dynamic loading and dynamic linking,
  - 10. What are the variants fild operations ?
- 1. Write note on Efficiency and manys of dust space.

(# x 5 m 20 materia

#### Tate C

Ansier all the questions.

- 12, ta). Ecolain disk management in detail,
- 10
  - (b) Exploin the various flurrading filters
- (a) Write about the versals OFD substructing algorithms.