

Name:
Enrolment No:



UNIVERSITY OF PETROLEUM & ENERGY STUDIES
Online End Semester Examination – Dec, 2020

Program: MBA (Aviation Management)
Subject/Course: Aerodrome Design & Operations (Annex 14)
Course Code: TRAV8002

Semester: III
Max. Marks: 100
Duration: 03 Hours

SECTION A

- 1. Each Question will carry 5 Marks**
2. Instruction: Complete the statement / Select the correct answer(s)

| Q.No | | COs |
|------|--|------|
| 1 | Airport fire fighting category depends upon _____ and _____. | CO 2 |
| 2 | Turning pad lights are of _____ colour and taxiway centre lines lights are of _____ colour. | CO 1 |
| 3 | Direction signs are depicted by _____ colour on _____ background and information signs are depicted by _____ colour on _____ background | CO 1 |
| 4 | Full scale Airport emergency exercise is to be carried at an interval of not exceeding a. 1 year b. 6 months c. 2 years d. 3 years | CO 3 |
| 5 | A defined rectangular area on the ground at the end of take-off run available prepared as a suitable area in which an aircraft can be stopped in the case of an abandoned take off is known as a. Runway End Safety Area b. Stopway c. Clearway d. None of the above | CO 2 |
| 6 | Aerodrome beacon emits flashes at a frequency of a. 12 to 20 flashes per minute b. 20 to 30 flashes per minute c. 12 to 30 flashes per minute d. None of the above | CO 1 |

SECTION B

- 1. Each Question will carry 10 Marks**
2. Instruction: Write short / brief notes

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| 7 | List down different types of runway markings and lightings. | CO 1 |
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| 8 | What are the various Obstacle limitation surfaces? Which surfaces form part of Obstacle Free Zone? | CO 4 |
| 9 | Calculate Declared Distances for Runway 09. (Draw a neat diagram) <ul style="list-style-type: none"> - Runway length – 3200 m. - Rwy 09 landing threshold displaced temporarily by 180 meters due construction work in approach path of Rwy 09. - Stopway for Rwy 09 – 250 m. - Clearway for Rwy 09 – 400 m. | CO 3 |
| 10 | Define response time. What are the ICAO standards and recommendations to be maintained in respect of Response time? | CO 2 |
| 11 | What do you understand by Aerodrome emergency plan and what are the various emergencies to be considered in the plan? What type of information should be included in drafting the Aerodrome emergency plan? | CO 3 |
| SECTION C | | |
| <p>1. Each Question will carry 20 Marks</p> <p>2. Instruction: Write long answer.</p> | | |
| 12 | <p>Discuss in detail about PAPI lighting system and Cat-1 Approach lighting system with the help of diagrams.</p> <p style="text-align: center;">OR</p> <p>a) Discuss in detail about the various factors to be considered in determining the number and siting of runway(s) while constructing a new airport.</p> <p>b) Differentiate between Non-Precision Approach runways and Precision Approach runways</p> | CO 4 |

ANSWERS